BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN KACANG-KACANGAN

PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI PERTANIAN
Badan Penelitian dan Pengembangan Pertanian
Kementerian Pertanian
2011

BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN KACANG-KACANGAN

Pusat Perpustakaan dan Penyebaran Teknologi Pertanian
Badan Penelitian dan Pengembangan Pertanian
Kementerian Pertanian
2011

BIBLIOGRAFI HASIL PENELITIAN PERTANIAN KOMODITAS TANAMAN KACANG-KACANGAN

2011

Diterbitkan oleh
PUSAT PERPUSTAKAAN DAN PENYEBARAN TEKNOLOGI PERTANIAN
Jalan Ir. H. Juanda No 20 Bogor.
Telp. 0251 8321746, Faximili 0251 8326561

E-mail : pustaka@litbang.deptan.go.id
Homepage : www.pustaka.litbang.deptan.go.id
ISBN. 978-979-8943-58-4

BIBLIOGRAFI
HASIL PENELITIAN PERTANIAN
KOMODITAS TANAMAN KACANG-KACANGAN

Pengarah : Dr. Haryono

Penanggung jawab : Ir. Farid H. Baktir, M.Ec.

Penyusun : Setiawati
Hendrawaty, S.Sos.
Ayi Mugiarti, A.Md.

Penyunting : Ir.Heryati Suryantini, M.Si.

KATA PENGANTAR

Bibliografi Hasil Penelitian Pertanian Kacang-Kacangan 2006-2011 disusun dan disebarkan kepada para pengguna di lingkup Badan Penelitian dan Pengembangan Pertanian, agar pengguna dapat mengetahui dan mengikuti perkembangan penelitian pertanian di berbagai negara, sehingga dapat dijadikan rujukan untuk penelitian dan pengembangan pertanian di tanah air.

Bibliografi ini memuat data bibliografi hasil penelitian mengenai Kacang-Kacangan tahun 2006-2011 yang bersumber dari Database ProQuest, ScienceDirect dan TEEAL yang dilanggan oleh Pusat Perpustakaan dan Penyebaran Teknologi Pertanian (PUSTAKA).

Penyusunan bibliografi ini dimaksudkan untuk memudahkan para pengguna, khususnya para peneliti Badan Litbang Pertanian dalam mencari informasi yang dibutuhkan, baik dalam rangka penyusunan proposal penelitian, penulisan ilmiah, laporan penelitian, maupun kegiatan penelitian dan kegiatan ilmiah lainnya.

Bibliografi Hasil Penelitian Pertanian Kacang-Kacangan selain diterbitkan dalam bentuk tercetak, dapat diakses secara *off-line* dan *on-line* melalui *website* PUSTAKA www.pustaka.litbang.deptan.go.id. Untuk mendapatkan artikel lengkapnya, dapat ditelusur melalui perpustakaan UK/UPT lingkup Badan Litbang Pertanian atau kontak langsung ke PUSTAKA melalui alamat e-mail: pustaka@litbang.deptan.go.id atau telepon ke nomor 0251-8321746, faksimile 0251-8326561. Bagi para peneliti yang datang ke PUSTAKA, penelusuran dapat dilakukan di *Operation Room Digital Library* (ORDL) yang berada di Lantai 1 Gedung B.

Bibliografi ini diharapkan dapat digunakan oleh peneliti setiap waktu, sehingga mampu mempercepat dan mempermudah para peneliti dalam mencari informasi yang dibutuhkan.

Kepala Pusat,

Ir.Farid Hasan Baktir, M.Ec.

DAFTAR ISI

KACANG ARAB

2006
TEEAL

1. Associations between earliness, Ascochyta response, and grain yield in chickpea/ Bonfil-D-J. ...[*et al*.]
Australian Journal of Agricultural Research, 2006, 57 (4), p. 465-470
Keywords: Chickpeas; Grain legumes; Yields

2. Botrytis grey mould of chickpea: a review of biology, epidemiology, and disease management/Pande-S. ...[*et al*.]
Australian Journal of Agricultural Research, 2006, 57 (11), p. 1137-1150
Keywords: Chickpeas; Botrytis; Grey mould; Epidemiology; Disease management

3. Cell wall degrading enzymes in fusarium wilt of chickpea: correlation between pectinase and xylanase activities and disease development in plants infected with two pathogenic races of Fusarium oxysporum. sp. ciceris /Jorge-I. ...[*et al*.]
Canadian Journal of Botany, 2006, 84 (9), p. 1395-1404
Keywords: Chickpeas; Fusarium wilt; Pectinase; Xylanase activities; Plant diseases; Fusarium oxysporum ciceris

4. Chemical composition, dietary fibre and resistant starch contents of raw and cooked pea, common bean, chickpea and lentil legumes/ Costa-G-E-de-A. ...[*et al*.]
Food Chemistry, 2006, 94 (3), p. 327-330
Keywords: Chemical composition; Chickpeas; Flours; Freeze drying; Legumes; Lentils; Lipids; Peas; Protein content

5. Chickpea chlorotic stunt virus: a new polerovirus infecting cool-season food legumes in Ethiopia /Abraham-A-D. Menzel-W. Lesemann-D-E. Varrelmann-M.
Phytopathology, 2006, 96 (5), p. 437-446
Keywords: Amino acid sequences; Chickpeas; Coat proteins; Disease vectors; Faba beans; Genomes; Host

range; Insect pests

6. Differentially expressed gene transcripts in roots of resistant and susceptible chickpea plant (*Cicer arietinum* L.) upon *Fusarium oxysporum* infection/Nimbalkar-S-B. ...[*et al*.]
Physiological and Molecular Plant Pathology, 2006, 68 (4-6), p. 176-188
Keywords: Amplified fragment length polymorphism; Chickpeas; Cicer arietinum; Complementary DNA; Disease resistance; Genetic diversity; Genetic markers; Genetic polymorphism

7. Ecogeography and demography of *Cicer judaicum* Boiss., a wild annual relative of domesticated chickpea /Ben-David-R.…[*et al*.]
Crop Science, 2006, 46 (3), p. 1360-1370
Keywords: **Chickpeas; Cicer judaicum; Geographical distribution; Habitats; Plant density; Wild relatives**

8. Effect of guard spacing, guard attachments and reel type on chickpea harvesting losses/Siemens-M-C
Applied Engineering in Agriculture, 2006, 22 (5), p. 651-657
Keywords: Chickpeas; Combine harvesting; Crop yield; Economic viability; Equipment performance; Grain0 legumes; Harvesting losses

9. Effect of replacing soybean meal by extruded chickpeas in the diets of growing-finishing pigs on meat quality/Christodoulou-V. ...[*et al*.]
Meat Science, 2006, 73 (3), p. 529-535
Keywords: Chemical composition; Chickpeas; Fatty acids; Feeds; Finishing; Meat quality

10. First report of a group 16SrII phytoplasma infecting chickpea in Oman/Al-Saady-N-A. Al-Subhi-A-M. Al-Nabhani-A.
Plant Disease, 2006, 90 (7), p. 973
Keywords: Chickpeas; Geographical distribution; New geographic records; Plant diseases; Plant pathogenic bacteria; Plant pathogens

11. First report of Sclerotinia stem rot of chickpea caused by *Sclerotinia sclerotiorum* in North Dakota and Washington/Chen-W. ...[*et al*.]
Plant Disease, 2006, 90 (1), p. 114
Keywords: Chickpeas; Fungal diseases; Geographical distribution; Mycelium; New geographic records; Pathogenicity; Plant diseases; Plant pathogenic fungi; Sclerotinia sclerotiorum

12. Host specificity of Ascochyta spp. infecting legumes of the viciae and cicerae tribes and pathogenicity of an interspecific hybrid /Hernandez-Bello-M-A. …[*et al*.]
Phytopathology, 2006, 96 (10), p. 1148-1156
Keywords:Ascochyta; Legumes; Pathogenicity; Host specificity

13. Identification and characterization of NBS-LRR class resistance gene analogs in faba bean (*Vicia faba* L.) and chickpea (*Cicer arietinum* L.)/Palomino-C. ...[*et al*.]
Genome, 2006, 49 (10), p. 1227-1237
Keywords: Chickpeas; Cicer arietinum; Vicia faba; Molecular genetics; Biochemistry; Molecular biophysics; Horticulture; Agriculture

14. Identification of sources of multiple disease resistance in mini-core collection of chickpea/ Pande-S. ...[*et al*.]
Plant Disease, 2006, 90 (9), p. 1214-1218
Keywords: Chickpeas; Disease resistance; Fungal diseases; Germplasm; Plant diseases; Plant pathogenic fungi; Plant pathogens

15. Impacts of management on soil biota in Vertosols supporting the broadacre grains industry in northern Australia/ Bell-M. ...[*et al*.]

Australian Journal of Soil Research, 2006, 44 (4), p. 433-451
Keywords: Chickpeas; Enzyme activity; Microbial activities; Nitrogen fertilizers; Organic carbon; Organic nitrogen; Phosphorus fertilizers

16. Modelling seedling emergence in chickpea as influenced by temperature and sowing depth/Soltani-A. ...[*et al*.]
Agricultural and Forest Meteorology, 2006, 138 (1-4), p. 156-167
Keywords: Chickpeas; Climatic factors; Seedling emergence; Sowing depth; Temperature

17. Phytotoxicity of *Ageratum conyzoides* residues towards growth and nodulation of *Cicer arietinum*/Batish-D-R. ...[*et al*.]
Agriculture, Ecosystems & Environment, 2006, 113 (1-4), p. 399-401
Keywords: Biomass; Chemical composition; Chickpeas; Growth; Invasive species; Nodulation; Phenolic compounds; Phytotoxicity; Plant composition

18. Registration of 'Dylan' chickpea cultivar /Muehlbauer-F-J. Temple-S-R. Chen-W.
Crop Science, 2006, 46 (6), p. 2705-2710
Keywords: Chickpeas; Crop yield; Disease resistance; Fungal diseases; New cultivars; Plant diseases; Plant morphology; Plant pathogenic fungi; Plant pathogens

19. Registration of 'Gokce' a Kabuli chickpea cultivar/Kusmenoglu-I. ...[*et al*.]
Crop Science, 2006, 46 (6), p. 2703-2704
Keywords: Chickpeas; Fungal diseases; New cultivars; Plant diseases; Plant pathogenic fungi; Plant pathogens

20. Response of chickpea (*Cicer arietinum* L.) varieties to time of sowing in Mediterranean-type environments of south-western Australia/Regan-K-L....[*et al*.]
Australian Journal of Experimental Agriculture, 2006, 46 (3), p. 395-404
Keywords: Chickpeas; Cicer arietinum; Cultivars; Phenology; Photoperiod; Sowing date; Temperature

21. Response of chickpea yield to high temperature stress during reproductive development /Wang-J. …[*et al*.]
Crop Science, 2006, 46 (5), p. 2171-2178
Keywords: Chickpeas; Crop yield; Cultivars; Environmental factors; Flowering; Heat stress; Plant development; Seeds

22. Subsoil constraints in Vertosols: crop water use, nutrient concentration, and grain yields of bread wheat, durum wheat, barley, chickpea, and canola/Dang-Y-P. ...[*et al*.]
Australian Journal of Agricultural Research, 2006, 57 (9), p. 983-998
Keywords: Barley; Calcium; Chemical composition; Chickpeas; Crop yield; Leaves; Nutrient content; Phytotoxicity; Plant composition

23. Successful stem cutting propagation of chickpea, its wild relatives and their interspecific hybrids/Danehloueipour-N. ...[*et al*.]
Australian Journal of Experimental Agriculture, 2006, 46(10), p.1349-1354
Keywords: Chickpeas; Hybrids; IBA; Interspecific hybridization; Plant growth regulators; Propagation materials

2007
TEEAL

24. Alternate wet-dry regime during fallow failed to improve nitrogen release from added legume residues in legume-wheat rotations on a Vertisol/ Thomson-S-J. Cameron-J-A-L. Dalal-R-C.
Australian Journal of Experimental Agriculture, 2007, 47 (7), p.

855-861
Keywords: Carbon nitrogen ratio; Chickpeas; Crop residues; Fallow; Lucerne; Mineralization; Nitrogen fertilizers; Rotation; Sustainability; Vertisols; Wheats

25. Characterization of protein isolates from different Indian chickpea (*Cicer arietinum* L.) cultivars / Maninder-Kaur. Narpinder-Singh
Food Chemistry, 2007, 102 (1), p. 366-374
Keywords: Ash; Chickpeas; Cultivars; Denaturation; Fat; PH; Proteins; Temperature

26. Chickpea threshing efficiency and energy consumption for different beater-contrbeater combinations/ Koyuncu-T. …[*et al*.]
AMA, Agricultural Mechanization in Asia, Africa and Latin America, 2007, 38 (2), p. 53-57
Keywords: Beaters; Chickpeas; Efficiency; Energy consumption; Power requirement; Rotational speed

27. Coinoculation of chickpea with Rhizobium isolates from roots and nodules and phytohormone-producing Enterobacter strains/ Mirza-B-S. …[*et al*.]
Australian Journal of Experimental Agriculture, 2007, 47 (8), p. 1008-1015
Keywords: Chickpeas; Growth; Nitrogen fixing bacteria; Nodulation; Plant development; Plant growth regulators; Roots

28. Cultivar type, plant population, and ascochyta blight in chickpea/ Gan YanTai …[*et al*.]
Agronomy Journal, 2007, 99 (6), p. 1463-1470
Keywords: Chickpeas; Crop density; Crop yield; Cultivars; Plant diseases; Plant pathogenic fungi; Plant pathogens

29. Differences between ascospores and conidia of *Didymella rabiei* in spore germination and infection of chickpea/Trapero-Casas-A. Kaiser-W-J
Hytopathology, 2007, 97 (12), p. 1600-1607
Keywords: Ascospores; Chickpeas; Conidia; Fungal spores; Plant pathogenic fungi; Plant pathogens; Spore germination; Water potential

30. Effect of field peas, chickpeas, and lentils on rumen fermentation, digestion, microbial protein synthesis, and feedlot performance in receiving diets for beef cattle/ Gilbery.T.C. ...[*et al*.]
Journal of Animal Science, 2007, 85 (11), p. 3045-3053
Keywords: Acetates; Ammonia; Beef cattle; Chickpeas; Diet; Feed conversion efficiency; Feed intake; Lentils.

31. Genetic analysis of seed size, yield and days to flowering in a chickpea recombinant inbred line population derived from a Kabuli x Desi cross/Cobos.M.J. …[*et al*.]
Annals of Applied Biology, 2007, 151 (1), p. 33-42
Keywords: Chickpeas; Crop yield; Crosses; Crossing; Flowering; Genetic analysis; Heritability; Hybrids; Inbred lines; Phenotypic variation

32. Genetic mapping of ascochyta blight resistance in chickpea (*Cicer arietinum* L.) using a simple sequence repeat linkage map/Tar'An-B. …[*et al*.]
Genome, 2007, 50 (1), p. 26-34
Keywords: Chickpeas; Cultivars; Disease resistance; Fungal diseases; Gene expression; Genetic mapping; Genetic resistance; Plant diseases; Plant pathogenic fungi; Ascochyta blight

33. Grain legumes in northern great plains impacts on selected biological soil processes/ Lupwayi.N.Z; Kennedy.A.C
Agronomy Journal, 2007, 99 (6), p. 1700-1709
Keywords: Biological control; Biological control agents; Carbon dioxide; Chickpeas; Crop residues; Cropping systems; Denitrification; Emission; Exudates; Grain legumes

34. Growth responses of cool-season grain legumes to transient waterlogging/ Solaiman. Z. …[*et al*.]
Australian Journal of Agricultural Research, 2007, 58 (5), p. 406-412
Keywords: Adventitious roots; Chickpeas; Faba beans; Growth; Lentils; Peas; Plant development

35. Influence of germination techniques on phytic acid and polyphenols content of chickpea (*Cicer arietinum* L.) sprouts/Khattak-A-B. …[*et al*.]

Food Chemistry, 2007, 104 (3), p. 1074-1079
Keywords: Antinutritional factors; Blue light; Cicer arietinum; Chemical composition;Chickpeas; Phytic acid; Plant composition; Seed germination

36. Influence of germination techniques on sprout yield, biosynthesis of ascorbic acid and cooking ability, in chickpea (*Cicer arietinum* L.)/Khattak. A.B. …[*et al*.]
Food Chemistry, 2007, 103 (1), p. 115-120
Keywords: Artificial light; Ascorbic acid; Chickpeas; Cooking; Dark; Fluorescent light; Gamma irradiation; Germination; Illumination; Light relations; Moisture

37. New root-knot nematode parasitizing sea rocket from Spanish Mediterranean coastal dunes: *Meloidogyne dunensis* sp. nov. (Nematoda: Meloidogynidae)/Palomares.Rius.J.E. ...[*et al*.]
Journal of Nematology, 2007, 39 (2), p.s 190-202
Keywords: Chickpeas; New species; Phylogenetics; Plant parasitic nematodes; Plant pests; Root knot nematode; Taxonomy

38. Nitrogen economy of pulse crop production in the Northern Great Plains/Walley, F.L. …[*et al*.]
Agronomy Journal, 2007, 99 (6), p. 1710-1718
Keywords: Pulses; Crop production; Nitrogen; Economics

39. Osmotic adjustment of chickpea (*Cicer arietinum*) is not associated with changes in carbohydrate composition or leaf gas exchange under drought/Basu.P.S. ...[*et al*.]
Annals of Applied Biology, 2007, 150 (2), p. 217-225
Keywords: Carbohydrates; Chemical composition; Chickpeas; Cultivars; Drought; Enzyme activity; Gas exchange; Genetic diversity; Genetic variation

40. Phenotypic and molecular characterization of chickpea rhizobia isolated from different areas of Tunisia/L'taief.B. ...[*et al*.]
Canadian Journal of Microbiology, 2007, 53 (3), p. 427-434

Keywords: Biodiversity; Chickpeas; Genetic diversity; Phenotypes; Salinity; Salt tolerance; Substrates

41. Physicochemical properties and amylopectin chain profiles of cowpea, chickpea and yellow pea starches/ Huang-JunRong ...[*et al*.]
Food Chemistry, 2007, 101 (4), p. 1338-1345
Keywords: Amylopectin; Amylase; Chickpeas; Cowpeas; Diffraction; Enzymes; Gelation; Physicochemical properties; Polymerization; Pullulanase; Seeds

42. Quantitative modeling of the effects of temperature and inoculum density of *Fusarium oxysporum* f. sp. *ciceris* races 0 and 5 on development of Fusarium wilt in chickpea cultivars/ Navas.Cortes.J.A. ...[*et al*.]
Phytopathology, 2007, 97 (5), p. 564-573
Keywords: Chickpeas; Cultivars; Disease resistance; Fungal diseases; Genetic diversity; Genetic variation; Models; Pathotypes; Plant diseases; Fusarium wilt

43. Radiation processing for elimination of *Salmonella typhimurium* from inoculated seeds used for sprout making in India and effect of irradiation on germination of seeds / Saroj S D . ...[*et al*.]
Journal of Food Protection, 2007, 70 (8), p. 1961-1965
Keywords: Ascorbic acid; Chickpeas; Germination; Peas; Radiation; Salmonellosis; Sprouts; Texture

44. Registration of 'Nafice' kabuli chickpea/Siddique.K.H.M; Regan.K.L; Malhotra.R.
Crop Science, 2007, 47 (1), p. 436-437
Keywords: Chickpeas; Disease resistance; Fungal diseases; New cultivars; Plant diseases

45. Residual effects from lime application on soil pH, rhizobial population and crop productivity in dryland farming systems of central New South Wales/Fettell.N.A. …[*et al*.]
Australian Journal of Experimental Agriculture, 2007, 47 (5), p. 608-619
Keywords: Crop yield; Lime; Nitrogen fixing bacteria; Peas;

Residual Effects

46. Reverse phase high performance liquid chromatography method for analyzing of neurotoxin beta -N-oxalyl-L- alpha , beta - diaminopropanoic acid in legume seeds/ Thippeswamy.R; Martin.A; Gowda.L.R
Food Chemistry, 2007, 101 (3), p. 1290-1295
Keywords: Alcohols; Analytical methods; Chemical composition; Groundnuts

47. Stimulatory effects of dual inoculation with phosphate solubilising microorganismsand arbuscular mycorrhizal fungus on chickpea/ Almas.Zaidi; Khan.M.S
AustralianJournal of Experimental Agriculture, 2007, 47 (8), p. 1016-1022
Keywords: Chickpeas; Endomycorrhizas; Mycorrhizal fungi; Mycorrhizae; Nitrogen content; Phosphate solubilizing bacteria; Vesicular arbuscular mycorrhizas

48. Sympatric ascochyta complex of wild *Cicer judaicum* and domesticated chickpea / Frenkel.O …[*et al*.]
Plant Pathology, 2007, 56 (3), p. 464-471
Keywords: Alternative hosts; Chickpeas; Fungal diseases; Hosts; Peas; Plant diseases; Plant pathogens; Ascochyta

49. Thermal properties of chickpea flour, isolated chickpea starch, and isolated chickpea protein / Emami.S; Tabil.L.G; Tyler.R.T
Transactions of the ASABE, 2007, 50 (2), p. 597-604
Keywords: Cereal flours; Chickpeas; Crop quality; Plant proteins; Prediction; Specific heat; Thermal conductivity; Thermal diffusion

50. Transcriptional profiling of chickpea genes differentially regulated by salicylic acid, methyl jasmonate and aminocyclopropane carboxylic acid to reveal pathways of defence-related gene regulation/Coram.T.E; Pang.E.C.K
Functional Plant Biology, 2007, 34 (1), p. 52-64

Keywords: Carboxylic acids; Chickpeas; Disease resistance; Fungal diseases; Gene expression; Genes; Genetic regulation; Methyl jasmonate; Plant diseases; Plant growth regulators

51. Zinc and iron contents and their bioaccessibility in cereals and pulses consumed in India/ Sreeramaiah Hemalatha; Kalpana Platel; Krishnapura Srinivasan
Food Chemistry, 2007, 102 (4), p. 1328-1336
Keywords: Bioavailability; Black gram; Calcium; Cereals; Chickpeas; Grain legumes; Green gram; In vitro digestibility; Iron; Nutrient availability; Nutritive value; Phytic acid

2008
TEEAL

52. Comparison of Metarhizium isolates for biocontrol of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in chickpea/ Kulkarni-S-A. ...[*et al*.]
Biocontrol Science and Technology, 2008, 18 (8), p. 809-828
Keywords: Biological control; Biological control agents; Chickpeas; Chitinase; Conidia; Enzyme activity; Enzymes; Fungal insecticides; Insect pests

53. Development of a prototype dehuller for pretreated chickpea/Reddy-B-S. Maruthi-V
Agricultural Mechanization in Asia, Africa and Latin America, 2008, 39 (2), p. 71-75
Keywords: Chickpeas; Farm machinery; Husking; Prototypes; Separation

54. Effects of crop and pasture rotations and surface cover on rainfall infiltration on a Kandosol in south-west Queensland/ Thomas-G-A. Orange-D-N. King-A-J *Australian Journal of Soil Research*, 2008, 46 (3), p. 203-209
Keywords: Chickpeas; Crop production; Dry matter; Legumes; Nutrient availability

55. High subsoil chloride concentrations reduce soil water extraction and crop yield on Vertosols in north-eastern Australia/ Dang-Y-P. ...[*et al*.]
Australian Journal of Agricultural Research, 2008, 59 (4), p. 321-330
Keywords: Barley; Chickpeas; Chloride; Crop yield; Mathematical models; Soil types; Soil water; Subsoil; Wheats

56. Isolation, selection, and characterization of beneficial rhizobacteria from pea, lentil, and chickpea grown in western Canada/ Hynes-Russell-K. ...[*et al*.]
Canadian Journal of Microbiology, 2008, 54 (4), p. 248-258
Keywords: Peas; Chickpeas; Lentils; Biogeography; Terrestrial ecology; Environmental sciences; Rhizosphere; Growth promotion; Agricultural input

57. Stem and crown rot of chickpea in California caused by *Sclerotinia trifoliorum*/ Njambere-E-N. ...[*et al*.]
Plant Disease, 2008, 92 (6), p. 917-922
Keywords: Chickpeas; Fungal diseases; Fungal morphology; Genes; Genetic markers; Plant diseases; Plant pathogenic fungi. Plant pathogens; Stem rot; Crown rot; Sclerotinia trifoliorum

KACANG BOGOR

2006
TEEAL

58. Cytogenetic studies on bambara groundnut (*Vigna subterranea* L. Verdc.)/
Uguru-M-I. Agwatu-U-K
Journal of Genetics & Breeding, 2006, 60 (2), p. 125-132
Keywords: Bambara groundnuts; Cytogenetics; Chromosomes; Vigna subterranea

2007
PROQUEST

59. Inheritance of 'domestication' traits in bambara groundnut (*Vigna subterranea* (L.) Verdc.) / Shravani Basu ...[*et al*.]
Euphytica, Dordrecht:Sep 2007. Vol. 157, Iss. 1-2, p. 59-68
Keywords: Vigna subterranea; Bambara groundnuts; Traits; Domestication

SCIENCEDIRECT

60. Growth and development of bambara groundnut (*Vigna subterranea*) in response to soil moisture: 1. Dry matter and yiel/ S.S. Mwale, S.N. Azam-Ali, F.J. Massawe
European Journal of Agronomy, Volume 26, Issue 4, May 2007, p. 345-353, ISSN 1161-0301
Keywords:Bambara groundnuts; Vigna subterranea; Drought; Dry matter; Landraces; Soil moisture; Yields
61. Growth and development of bambara groundnut (*Vigna subterranea*) in response to soil moisture: 2. Resource capture and conversion/S.S. Mwale, S.N. Azam-Ali, F.J. Massawe
European Journal of Agronomy, Volume 26, Issue 4, May 2007, p. 354-362, ISSN 1161-0301
Keywords:Bambara groundnuts; Vigna subterranea; Conversion coefficient; Radiation; Transpiration; Soil moisture

TEEAL

62. Broad screening of the legume family for variability in seed

insecticidal activities and for the occurrence of the A1b-like knottin peptide entomotoxins/ Louis S. ...[*et a*l.]
Phytochemistry, 2007, 68 (4), p. 521-535
Keywords: Gene expression; Genes; Peptides; Phytotoxins; Seeds

63. Effects of soil amendments and mulch on emergence, pod development and yield of bambara groundnut (*Vigna subterranea* L.) in a hard-setting soil/ Materechera.S.A; Motsuenyane. B; Modise.J.R
South African Journal of Plant and Soil, 2007, 24 (2), p. 100-105
Keywords: Crop yield; Emergence; Gels; Gypsum; Luvisols; Mulching; Polymers

64. Nutritional status of maize fermented meal by fortification with bambara-nut/ Mbata.T.I; Ikenebomeh.M.J; Ahonkhai.I
African Journal of Food, Agriculture, Nutrition and Development, 2007, 7 (2), p.1-6
Keywords: Endomycorrhizas; Mung beans; Mycorrhizal fungi; Nitrogen; Phosphorus; Potassium; Soil fertility; Soil fumigants; Soil pH; Sporulation; Vesicular arbuscular mycorrhizas; Vigna subterranean

2008
PROQUEST

65. Influence of sowing date and environmental factors on the development and yield of bambara groundnut (V*igna subterranea*) landraces in a sub-tropical region/ A Sesay, C N Magagula, A B Mansuetus
Experimental Agriculture, Cambridge:Apr 2008. Vol. 44, Iss.

2, p. 167-183
Keywords: Sowing date; Environmental factors; Yields

66. Nutritional composition, microbial status, functional and sensory properties of infant diets formulated from cooking banana fruits (*Mus*a spp, ABB genome) and fermented bambara groundnut (*Vigna subterranea* L. Verdc) seeds/ O.S. Ijarotimi
Nutrition and Food Science, Bradford:2008. Vol. 38, Iss. 4, p. 325-340
Keywords:Vigna subterranea; Musa; Nutritional composition; Microbial status; Infant foods; Sensory properties

SCIENCEDIRECT

67. Chemical composition and functional properties of raw and roasted Nigerian benniseed *(Sesamum indicum)* and bambara groundnut *(Vigna subterranea) /*A.A. Yusuf, H. Ayedun, L.O. Sanni
Food Chemistry, Volume 111, Issue 2, 15 November 2008, p. 277-282, ISSN 0308-8146
Keywords:Benniseed; Bambara groundnuts; Seeds; Roasting; Chemical composition; Functional properties

68. Mbofung, physical properties and rehydration kinetics of two varieties of cowpea *(Vigna unguiculata)* and bambara groundnuts *(Voandzeia subterranea)* seeds/ K.G. Kaptso …[*et al*.]
Journal of Food Engineering, Volume 86, Issue 1, May 2008, p. 91-99, ISSN 0260-8774
Keywords:Cowpeas; Vigna unguiculata; Bambara groundnuts; Vigna subterranea; Seeds; Varieties; Physical properties; Effective diffusivity; Modelling

69. Physical properties of *bambara* groundnuts from Botswana/ S.M. Mpotokwane ...[*et al*.]
Journal of Food Engineering, Volume 89, Issue 1, November 2008, p. 93-98, ISSN 0260-8774
Keywords: Physical properties; Bambara groundnuts; Vigna subterranea; Seeds; Bulk density; Porosity

2009
PROQUEST

70. Comparison of nutritional composition and anti-nutrient status of fermented, germinated and roasted bambara groundnut seeds (*Vigna subterranea*)/ Oluwole Steve Ijarotimi, Taiwo Ruth Esho
British Food Journal, :2009. Vol. 111, Iss. 4, p. 376-386
Keywords: Vigna subterranea; Bambara groundnuts; Seeds; Fermentation; Roasting; Germinability; Nutritional status; Nutritive value

71. Factors affecting regeneration of bambara groundnut [*Vigna subterranea* (L.) Verdc.] from mature embryo axes/ M Koné ...[*et al*.]
In Vitro Cellular & Developmental Biology.: Plant Columbia:Nov/Dec 2009. Vol. 45, Iss. 6, p. 769-775
Keywords:Vigna subterranea; Bambara groundnuts; Maturity; Plant embryos

2010
PROQUEST

72. Effect of sowing density and seedbed type on yield and yield components in bambara groundnut *(Vigna subterranea*) in woodland savannas of cote/ D'ivoire N' J Kouassi, I A Zoro Bi.
Experimental Agriculture Cambridge:Jan 2010. Vol. 46, Iss. 1, p. 99-110
Keywords:Vigna subterranea; Spacing; Seedbeds; Yield components; Woodlands; Savannas

73. Studies on the floral traits and their implications on pod and seed yields in bambara groundnut [*Vigna subterrenea* (L.) Verdc] / B C Oyiga, M I Uguru, C B Aruah
Australian Journal of Crop Science.Lismore:Mar 2010.Vol. 4,

Iss. 2, p. 91-97
Keywords: Vigna subterranea; Fruits; Seeds; Yields

SCIENCEDIRECT

74. Modelling the canopy development of bambara groundnut/ A.S. Karunaratne …[*et al*.]
Agricultural and Forest Meteorology, Volume 150, Issues 7-8, 15 July 2010, p. 1007-1015, ISSN 0168-1923
Keywords:Bambara groundnuts; Vigna subterranea;Canopy; Temperature; Drought stress; Photoperiod; Leaves; Stem production

75. Quality evaluation of beef patties formulated with bambara groundnut (*Vigna subterranean L.)* seed flour/ J.S. Alakali, S.V. Irtwange, M.T. Mzer
Meat Science, Volume 85, Issue 2, June 2010, p. 215-223, ISSN 0309-1740
Keywords:Bambara groundnuts; Vigna subterranea; Quality;Evaluation; Beef patties; Proximate composition

KACANG GUDE

2006
PROQUEST

76. Agrobacterium-mediated production of transgenic pigeonpea (*Cajanus cajan* l. Millsp.) expressing the synthetic bt cry1ab gene/ Kiran K Sharma, M Lavanya, V Anjaiah
In Vitro Cellular & Developmental Biology - Plant, Columbia: Mar/Apr 2006. Vol. 42, Iss. 2, p. 165-173
Keywords: Cajanus cajan; Agrobacterium; Production; Cry1ab gene; Pigeon peas
77. Identification of two RAPD markers genetically linked to a recessive allele of a fusarium wilt resistance gene in pigeonpea

(*Cajanus cajan* L. Millsp.)/ H Kotresh ...[*et al*.]
Euphytica. Dordrecht:May 2006. Vol. 149, Iss. 1-2, p. 113-120
Keywords: Cajanus cajan; Pigeon peas; Genetic matters; Fusarium; Disease resistance

78. Phosphorus intensity determines short-term P uptake by pigeon pea (*Cajanus cajan* L.) grown in soils with differing P buffering capacity/ Pieter Pypers ...[*et al*.]
Plant and Soil. The Hague:Jun 2006. Vol. 284, Iss. 1-2, p. 217-227
Keywords:Cajanus cajan; Pigeon peas; Phosphorus; Nutrient uptake; Buffering capacity

SCIENCEDIRECT

79. Differential cross-utilization of *heterologous siderophores* by nodule bacteria of *Cajanus cajan* and its possible role in growth under iron-limited conditions/ Arif Khan …[*et al*.]
Applied Soil Ecology, Vol. 34, Iss.1, Nov.2006, p.19-26, ISSN 0929-1393
Keywords:Cajanus cajan; Root nodules; Bacteria; Heterologous siderophore; Cross utilization; Growth; Iron limited conditions

80. Kinetic modelling of texture development in potato cubes *(Solanum tuberosum L.*), green gram whole *(Vigna radiata L.)* and red gram splits *(Cajanus cajan L.)*/ P. Nisha, Rekha S. Singhal, Aniruddha B. Pandit
Journal of Food Engineering, Volume 76, Issue 4, October 2006, p. 524-530, ISSN 0260-8774
Keywords: Potato cubes; Solanum tuberosum; Red gram splits; Cajanus cajan.; Green gram whole; Vigna radiata; Texture; Kinetics; Cookers; Processing methods; Temperature

TEEAL

81. Modern nursery practices in the production of quality seedlings of Indian sandalwood (*Santalum album* L.) - stage of host requirement and screening of primary host species/Annapurna-D. Rathore-T-S. Geeta-Joshi
Journal of Sustainable Forestry, 2006, 22 (3-4), p. 33-55
Keywords: Container grown plants; Forest nurseries; Host plants; Parasitic plants; Pigeon peas; Plant height; Seedling growth; Seedlings

82. Removal of toluene vapour using agro-waste as biofilter media /Singh-R-S. Agnihotri-S-S. Upadhyay-S-N.
Bioresource Technology, 2006, 97 (18), p. 2296-2301
Keywords: Agricultural wastes; Biological filtration; Biological treatment; Pigeon peas; Removal; Waste utilization

2007
PROQUEST

83. Bioformulation of Burkholderia sp. MSSP with a multispecies consortium for growth promotion of *Cajanus cajan* / Piyush Pandey, D K Maheshwari
Canadian Journal of Microbiology. Ottawa:Feb 2007. Vol. 53, Iss. 2, p. 213-222
Keywords: Cajanus cajan; Burkholderia; Growth promotion; Bioformulation

SCIENCEDIRECT

84. Comparative study of the functional, thermal and pasting properties of flours from different field pea (*Pisum sativum L.*) and pigeon pea (*Cajanus cajan* L.) cultivars/ Kaur Maninder, Kawaljit Singh Sandhu, Narpinder Singh
Food Chemistry, Volume 104, Issue 1, 2007, p. 259-267, ISSN 0308-8146
Keywords: Peas; Pisum sativum; Pigeon peas; Cajanus

cajan; Cultivars; Flours; Physicochemical properties; Functional properties; Thermal properties; Pasting properties; Protein content

85. Germinated *Cajanus cajan* seeds as ingredients in pasta products: chemical, biological and sensory evaluation/ Alexia Torres …[*et al*.]
Food Chemistry, Volume 101, Issue 1, 2007, p. 202-211, ISSN 0308-8146
Keywords: Pigeon pea; Cajanus cajan; Germination; Fortified pasta; Sensory evaluation; Nutritional quality; Vitamins

86. Influence of germination on the nutritional quality of *Phaseolus vulgaris* and *Cajanus cajan*/ E. Sangronis, C.J. Machado
LWT - Food Science and Technology, Volume 40, Issue 1, January 2007, p. 116-120, ISSN 0023-6438
Keywords:Phaseolus vulgaris; Cajanus cajan; Nutrients; Minerals; Protein digestibility

TEEAL

87. Germinated *Cajanus cajan* seeds as ingredients in pasta products: chemical, biological and sensory evaluation/ Torres-A. …[*et al*.]
Food Chemistry, 2007, 101 (1), p. 202-211
Keywords: Antioxidant properties; Ascorbic acid; Fat; Fibre; Flours; Fortification; Germination; Mineral content; Nutritive value; Pasta; Phytic acid

2008
PROQUEST

88. Physico-chemical traits of *Cajanus cajan* (L.) Millsp. pod wall affecting *Melanagromyza obtusa* (Malloch) damage/ R K Moudgal …[*et al*.]
Euphytica. Dordrecht:Jun 2008. Vol. 161, Iss. 3, p. 429-436
Keywords: Cajanus cajan; Physicochemical properties; Pod wall; Melanagiomyza obtuse

SCIENCEDIRECT

89. Effect of waterlogging on carbohydrate metabolism in pigeon pea (*Cajanus cajan* L.): upregulation of sucrose synthase and alcohol dehydrogenase/ D. Kumutha …[*et al*.]
Plant Science, Volume 175, Issue 5, November 2008, p. 706-716, ISSN 0168-9452
Keywords: Pigeon peas; Cajanus cajan; Alcohol dehydrogenase; Genotypes; Gene expression; Hypoxia; Sucrose synthase; Waterlogging

90. Enzyme assisted extraction of luteolin and apigenin from pigeon pea [*Cajanus cajan* (L.) Millsp.] leaves/ Yu-Jie Fu ...[*et al*.]
Food Chemistry, Volume 111, Issue 2, 15 November 2008, p. 508-512, ISSN 0308-8146
Keywords: Pigeon peas; Cajanus cajan; Luteolin; Apigenin; Pectinase; Cellulase; Beta glucosidase; Extraction

TEEAL

91. Influence of P fertilization on biological nitrogen fixation in herbaceous legumes grown in acid savannah soils from the Tabasco State, Mexico/ Vera-Nunez-J-A. Infante-Santiago-J-P. Velasco-Velasco-V.
Journal of Sustainable Agriculture, 2008, 31 (3), p. 25-42
Keywords: Acid soils; Green manures; Isotope dilution; Legumes; Maize; Nitrogen; Nitrogen fixation; Nodules; Phosphorus fertilizers

2009
PROQUEST

92. Genetic characterization of biochemical contents of pigeon pea (*Cajanus*
cajan (L.) Millsp)/ S.R. Akande, M.O. Balogun
Nutrition and Food Science. Bradford:2009. Vol. 39, Iss. 3, p. 260-267
Keywords: Pigeon peas; Cajanus cajan; Agronomic characters; Genetic stability

SCIENCEDIRECT

93. Ethanol modified supercritical fluid extraction and antioxidant activity of cajaninstilbene acid and pinostrobin from pigeonpea [*Cajanus cajan* (L.) Millsp.] leaves/Yu Kong ...[*et al*.]
Food Chemistry, Volume 117, Issue 1, 1 November 2009, p. 152-159, ISSN 0308-8146,
Keywords: Pigeon peas; Cajanus cajan; Supercritical fluid; Extraction; Carbon dioxide ; Cajaninstilbene acid; Pinostrobin; Leaves; Antioxidant activity; Temperature

2010
SCIENCEDIRECT

94. Cajanuslactone, a new coumarin with anti-bacterial activity from pigeon pea [*Cajanus cajan* (L.) Millsp.] leaves/ Yu Kong …[*et al*.]
Food Chemistry, Volume 121, Issue 4, 15 August 2010, p. 1150-1155, ISSN 0308-8146
Keywords: Cajanus cajan; Coumarin; Cajanuslactone; Antibacterial activity; Microorganisms.

95. *In vitro* digestibility, structural and functional properties of starch from pigeon pea (*Cajanus cajan*) cultivars grown in India/ Maninder Kaur, Kawaljit Singh Sandhu
Food Research International, Volume 43, Issue 1, January 2010, p. 263-268, ISSN 0963-9969
Keywords: Pigeon peas; Cajanus cajan; Varieties; Starch; Digestibility; Starch structure; Pasting; In vitro

experimentation

96. Insecticidal potential of bowman-birk proteinase inhibitors from red gram (*Cajanus cajan*) and black gram (*Vigna mungo*) against lepidopteran insect pests/ E.R. Prasad, A. Dutta-Gupta, K. Padmasree
Pesticide Biochemistry and Physiology, Volume 98, Issue 1, September 2010, p. 80-88, ISSN 0048-3575
Keywords:Red gram; Cajanus cajan; Black gram; Vigna mungo;Proteinase inhibitor; Bowman birk inhibitor;Lepidopteran insect; Pest insects; Proteases; Insecticides

97. Organic-acid-producing, phytate-mineralizing rhizobacteria and their effect on growth of pigeon pea (*Cajanus cajan*)/ Kuldeep J. Patel …[*et al*.]
Applied Soil Ecology, Volume 44, Issue 3, March 2010, p. 252-261, ISSN 0929-1393
Keywords: Cajanus cajan; Pigeon peas; Phytate mineralization; Rhizobacteria; Phytase; Organic acid; Secretion; Gluconic acid

98. Partial characterization of red gram (*Cajanus cajan* L. Millsp) polypeptides recognized by patients exhibiting rhinitis and bronchial asthma/Amita Misra …[*et al.*]
Food and Chemical Toxicology, Volume 48, Issue 10, October 2010, p. 2725-2736, ISSN 0278-6915
Keywords: Red gram; Cajanus cajan; Food allergy; IgE binding proteins; Leguminous crops; Novel allergens

99. Wilt disease management and enhancement of growth and yield of *Cajanus cajan* (L) var. Manak by bacterial combinations amended with chemical fertilizer/ Harish Kumar ...[*et al*.]
Crop Protection, Volume 29, Issue 6, June 2010, p. 591-598, ISSN 0261-2194
Keywords:Cajanus cajan; Wilt disease; PGPR;Pseudomonas fluorescens; Fusarium udum

2011
SCIENCEDIRECT

100. Hydroxypropylation of pigeon pea *(Cajanus cajan)* starch: preparation, functional characterizations and enzymatic digestibility/ Olayide S. Lawal
LWT - Food Science and Technology, Volume 44, Issue 3, Innovative baking technologies: new starches, functional bread and cereal products, April 2011, p. 771-778, ISSN 0023-6438
Keywords:Pigeon peas; Cajanus cajan; Hydroxypropy; Starch;Modification; Syneresis; Retrogradation; Enzymatic digestibility

KACANG HIJAU

2006
PROQUEST

101. Antihypertensive effect of alcalase generated mung bean protein hydrolysates in spontaneously hypertensive rats/ Guan-Hong Li ...[*et al*.]
European Food Research and Technology = Zeitschrift für Lebensmittel-Untersuchung und Forschung. A. Heidelberg:Mar 2006. Vol. 222, Iss. 5-6, p. 733-736
Keywords: Mung beans;Proteins; Hydrolysates; Antihypertensive rats; Alcalase

102. Effect of air pollution on yield and quality of mung bean grown in peri-urban areas of varanasi/ M Agrawal ...[*et al*.]
Water, Air and Soil Pollution. Dordrecht:Jan 2006. Vol. 169, Iss. 1-4, p. 239-254
Keywords: Mung beans; Air pollution; Yields; Quality; Suburban agriculture

103. Identification of a mung bean Arabinofuranosyltransferase that transfers
arabinofuranosyl residues onto (1, 5)-Linked [alpha]-L-Arabino-Oligosaccharides1/ Teruko Konishi ...[*et al*.]
Plant Physiology. Rockville:Jul 2006. Vol. 141, Iss. 3 p.

1098-1105
Keywords:Mung beans; Arabino furanosyltrans ferase; Residues

SCIENCEDIRECT

104. Changes of endogenous ABA and ACC, and their correlations to photosynthesis and water relations in mungbean (*Vigna radiata* (L.) Wilczak cv. KPS1) during waterlogging/ S. Ahmed, E. Nawata, T. Sakuratani
Environmental and Experimental Botany, Volume 57, Issue 3, October 2006, p. 278-284, ISSN 0098-8472
Keywords:Vigna radiata; ABA; Chlorophyll fluorescence; Ethylene; Mung beans; Photosynthesis; Waterlogging

105. Manganese stress alters phytotoxic effects of chromium in green gram physiology (*Vigna radiata L.*) *cv*. PU 19/ Pratima Sinha, B.K. Dube, C. Chatterjee
Environmental and Experimental Botany, Volume 57, Issues 1-2, August 2006, p. 131-138, ISSN 0098-8472
Keywords: Green gram; Vigna radiata; Plant physiology; Manganese stress; Chromium; Phytotoxicity

106. Moisture sorption isotherms for mungbean (*Vigna radiata* L)*/* M.M.I. Chowdhury …[*et al*.]
Journal of Food Engineering, Volume 74, Issue 4, June 2006, p. 462-467, ISSN 0260-8774
Keywords:Vigna radiata; Moisture content; Mung beans; Adsorption; Temperature

2007
PROQUEST

107. Isolation and characterization of like retrotransposons in mungbean (*Vigna radiata*)/ Weimin Xiao ...[*et al*.]
Journal of Plant Research. Tokyo:Mar 2007. Vol. 120, Iss. 2, p. 323-328

Keywords:Vigna radiata; Mung beans; Isolation; Characterization

108. Protein mobilization in germinating mung bean seeds involves vacuolar sorting receptors and multivesicular bodies1[W][OA]/ Junqi Wang ...[*et al*.]
Plant Physiology. Rockville:Apr 2007. Vol. 143, Iss. 4, p. 1628-1639
Keywords: Mung beans; Seeds; Protein mobilization; Germination; Vacuolar sorting receptors; Multivesicular bodies

SCIENCEDIRECT

109. A[alpha]-amylase from mung beans (*Vigna radiata*) - correlation of biochemical properties and tertiary structure by homology modeling/ Pallavi Tripathi. ...[*et al*.]
Phytochemistry, Volume 68, Issue 12, June 2007, p. 1623-1631, ISSN 0031-9422
Keywords:Alpha amylase; Vigna radiata; Enzyme purification;Biochemical properties; Homology modeling

110. Changes in oxidative stress defense system in wheat (*Triticum aestivum* L.) and mung bean (*Vigna radiata L.*) cultivars grown with and without mineral nutrients and irradiated by supplemental ultraviolet-B/ S.B. Agrawal, Dheeraj Rathore
Environmental and Experimental Botany, Volume 59, Issue 1, January 2007, p. 21-33, ISSN 0098-8472
Keywords: Ultraviolet-B; Radiation; Mineral nutrients; Wheats; Triticumaestivum; Mung beans; Vigna radiata; Photosynthetic pigments; Antioxidant defense system; Biomass

TEEAL

111. Arbuscular mycorrhizal fungi associated with green gram in South India / Valsalakumar N; Ray J G; Potty V P
Agronomy Journal, 2007, 99 (5), p. 1260-1264
Keywords: Green gram; Mycorrhizal fungi; Mycorrhizae; Organic farming; Plant diseases; Plant nutrition; Plant water relations; Soil amendments; Soil structure; Symbiosis; Tillage

2008
PROQUEST

112. Toxicity and bioavailability of copper nanoparticles to the terrestrial plants mung bean (*Phaseolus radiatus*) and wheat (*Triticum aestivum*): plant agar test for water-insoluble nanoparticles/ Woo Mi Lee ...[*et al*.]
Environmental Toxicology and Chemistry. New York:Sep 2008. Vol. 27, Iss. 9, p. 1915-1921
Keywords: Phaseolus radiatus; Mung beans; Triticum cestivum; Toxicity; Bioavailability; Copper; Water insoluble nanoparticles

SCIENCEDIRECT

113. Characterization of new sources of mungbean (*Vigna radiata* (L.) Wilczek*)* resistance to bruchid*s*, *Callosobruchus spp.* (Coleoptera: Bruchidae)/ C. Somta …[*et al*.]
Journal of Stored Products Research, Volume 44, Issue 4,

2008, p. 316-321, ISSN 0022-474X

Keywords: Bruchids; Callosobruchus maculatus.; Mung beans; Vigna radiata; Varieties; Seeds; Characteristics resistance

114. Concepcion vidal-valverde, application of high-pressure treatment on alfalfa (*Medicago sativa*) and mung bean (*Vigna radiata*) seeds to enhance the microbiological safety of their sprouts/ Elena Penas …[*et al*.]

Food Control, Volume 19, Issue 7, July 2008, p. 698-705, ISSN 0956-7135

Keywords: Lucerne; Medicago sativa; Mung beans; Vigna radiata; Seeds; Germination; High pressure; Sprouts; Microbiological safety; Temperature

115. Concepcion vidal-valverde, kinetic study of the antioxidant compounds and antioxidant capacity during germination of *Vigna radiata* cv. emmerald, *Glycine cv. jutro* and *Glycine max cv. merit*/ Rebeca Fernandez-Orozco …[*et al*.]

Food Chemistry, Volume 111, Issue 3, 1 December 2008, p. 622-630, ISSN 0308-8146

Keywords:Mung beans; Soybeans; Germination; Antioxidant capacity; Vitamin C; Vitamin E; Phenolic compounds; Glutathione; Lipid peroxidation; Vigna radiata; Glycine max

116. Polyphasic characterization of mung bean (*Vigna radiata* L.) rhizobia from different geographical regions of China/ Jiang Ke Yang…[*et al*.]

Soil Biology and Biochemistry, Volume 40, Issue 7, July 2008, p. 1681-1688, ISSN 0038-0717

Keywords:Mung beans; Vigna radiata; Rhizobia;

Variability; rRNA gene RFLP; Phenotypes

117. Role for brassinosteroids in the amelioration of aluminium stress through antioxidant system in mung bean (*Vigna radiataEnvironmental and Experimental Botany*, Volume 62, Issue 2, March 2008, p. 153-159, ISSN 0098-8472
Keywords: Mung beans; Vigna radiata; Seedlings; Aluminium; Antioxidants; Brassinosteroids; Carbonic anhydrase; Photosynthesis; Proline; Amelioration

118. Biosynthesis of trigonelline from nicotinate mononucleotide in mungbean seedlings/ Zheng-XinQian. Matsui-A. Ashihara-H
Phytochemistry, 2008, 69 (2), p. 390-395
Keywords: Biosynthesis; Enzyme activity; Enzymes; Green gram; Metabolism; Mung beans; Nucleosidases; Nucleotidase; Nucleotides; Plant embryos

2009
PROQUEST

119. Combination treatments for killing *Escherichia coli* O157:H7 on alfalfa, radish, broccoli, and mung bean seeds/ M L Bari ...[*et al*.]
Journal of Food Protection. Des Moines:Mar 2009. Vol.72, Iss.3, p. 631-636
Keywords: Lucerne; Radish; Broccoli; Mung beans; Seeds; Escherichia coli; Disease control

120. Concentration and detection of Salmonella in mung bean sprout spent irrigation water by use of tangential flow filtration coupled with an imperometric flow through enzyme-linked immunosorbent assay/ R McEgan, T J Fu, K Warriner
Journal of Food Protection. Des Moines:Mar 2009. Vol.72,

Iss.3, p. 591-600
Keywords: Mung beans; Salmonella: Irrigation; Filtration; Water purification; ELISA

121. Facilitated legume nodulation, phosphate uptake and nitrogen transfer by arbuscular inoculation in an upland rice and mung bean intercropping system /Yuefeng Li ...[*et al*.]
Plant and Soil. The Hague:Feb 2009. Vol. 315, Iss. 1-2, p. 285-296
Keywords:Mung beans; Root nodulation; Phosphates; Inoculation methods

SCIENCEDIRECT

122. Development of pusa 5SD for seed dressing and pusa biopellet 10G for soil application formulations of *Trichoderma harzianum* and their evaluation for integrated management of dry root rot of mungbean (*Vigna radiata*)/ Sunil C. …[*et al*.]
Biological Control, Volume 50, Issue 3, September 2009, p. 231-242, ISSN 1049-9644
Keywords:Bio formulations; Rhizoctonia bataticola;Mung beans; Vigna radiata; Integrated management

123. *Vigna mungo, V. radiata* and *V. unguiculata* plants sampled in different agronomical-ecological-climatic regions of India are nodulated by Bradyrhizobium yuanmingense/ Chinnaswamy Appunu …[*et al*.]
Systematic and Applied Microbiology, Volume 32, Issue 7, October 2009, p. 460-470, ISSN 0723-2020
Keywords: Bradyrhizobium; Genetic diversity; Phylogeny; Symbiotic genes; PCR; DNA; RFLP

124. Waterlogging-induced increase in sugar mobilization, fermentation, and related gene expression in the roots of mung bean (*Vigna radiata*)/ Raj K. Sairam …[*et al*.]
Journal of Plant Physiology, Volume 166, Issue 6, 1 April 2009,

p. 602-616, ISSN 0176-1617
Keywords:Vigna radiata; Alcohol dehydrogenase; Gene expression; Mung beans; Sucrose synthase; Waterlogging

2010
PROQUEST

125. Control of salmonella on sprouting mung bean and alfalfa seeds by using a biocontrol preparation based on antagonistic bacteria and lytic bacteriophages/ Jianxiong Ye ...[*et al*.]
Journal of Food Protection. Des Moines:Jan 2010. Vol. 73, Iss. 1, p.9-17
Keywords:Mung beans; Lucerne; Seeds; Salmonella; Biological control Antagonistic bacteria; Lytic bacteriophage

126. Interaction between H_2O_2 and NO, Ca^{2+}, cGMP, and MAPKs during adventitious rooting in mung bean seedlings/ Shi-Weng Li, Lingui Xue
In Vitro Cellular & Developmental Biology-Plant Columbia:Apr 2010. Vol. 46, Iss. 2, p. 142-148
Keywords: Mung beans; Seedlings; Rooting

127. Practical evaluation of mung bean seed pasteurization method in Japan/ M L Bari, K Enomoto, S Kawamoto
Journal of Food Protection. Des Moines: Apr 2010. Vol. 73, Iss. 4, p. 752-757
Keywords: Mung beans; Seeds; Pasteurizing; Evaluation; Japan

128. Stability analysis for grain yield in mung bean (*Vigna radiata* L. wilczek) grown in different agro-climatic regions/ Lal Hussain Akhtar ...[*et al*.]
Journal of Food and Agriculture. Al-Ain: Dec 2010. Vol. 22, Iss. 6, p. 490-497
Keywords: Vigna radiata; Mung beans; Grain; Yields; Agroclimatic zones

SCIENCEDIRECT

129. Antioxidant activities of water-soluble polysaccharide extracted from mung bean (*Vigna radiata* L.) hull with ultrasonic assisted treatment/ Furao Lai …[*et al*.]
Carbohydrate Polymers, Volume 81, Issue 2, 11 June 2010, p. 323-329, ISSN 0144-8617
Keywords: Mung beans; Vigna radiata; Water soluble polysaccharide; Ultrasonic; Antioxidants

130. Effect of 28-homobrassinolide on photosynthesis, fluorescence and antioxidant system in the presence or absence of salinity and temperature in *Vigna radiata/* Shamsul Hayat …[*et al*.]
Environmental and Experimental Botany, Volume 69, Issue 2, November 2010, p. 105-112, ISSN 0098-8472
Keywords:Vigna radiata; Brassinosteroids; Lipid peroxidation;Photosynthesis; Carboxylation efficiency; Antioxidative enzymes;

131. Effect of different sewage sludge applications on growth and yield of *Vigna radiata* L. field crop: metal uptake by plant/ R.P. Singh, M. Agrawal
Ecological Engineering, Volume 36, Issue 7, July 2010, p. 969-972, ISSN 0925-8574
Keywords:Mung beans; Vigna radiata; Sewage sludge; Heavy metals;Nutrients; Growth; Yields; Soil physicochemical properties

132. Novel Ca^{2+} activated protease from germinating *Vigna radiata* seeds and its role in storage protein mobilization/ Sadaf Khan, Giti Verma, Samir Sharma
Journal of Plant Physiology, Volume 167, Issue 11, 15 July 2010, p. 855-861, ISSN 0176-1617
Keywords: Calcium; Proteases; Protein mobilization; Vicilin; Vigna radiata; Seed germination.

2011
SCIENCEDIRECT

133. Effect of high hydrostatic pressure on physicochemical, thermal and morphological properties of mung bean (*Vigna radiata L.*) starch/ Wenhao Li ..[*et al*.]
Journal of Food Engineering, Volume 103, Issue 4, April 2011,

p. 388-393, ISSN 0260-8774
Keywords: Mung beans; Vigna radiata; Starch; DSC; RVA; Crystalline; Physicochemical properties; Physical modification

134. Elevated antioxidant response and induction of tau-class glutathione S-transferase after glyphosate treatment in *Vigna radiata* (L.) Wilczek/Mahesh Basantani, Alka Srivastava, Somdutta Sen
Pesticide Biochemistry and Physiology, Volume 99, Issue 1, January 2011, p. 111-117, ISSN 0048-3575
Keywords: Affinity chromatography; Herbicides; Glyphosate; Vigna radiata; Varieties; Antioxidants; Response

135. 2,4-dichlorophenoxyacetic acid-induced leaf senescence in mung bean (*Vigna radiata* L. Wilczek) and senescence inhibition by co-treatment with silver nanoparticles/ Thirupathi Karuppanapandian …[*et al*.]
Plant Physiology and Biochemistry, Volume 49, Issue 2, February 2011, p. 168-177, ISSN 0981-9428
Keywords:Dichlorophenoxyacetic acid; Ethylene; Leaf senescence; Mung beans; Vigna radiata; DNA; Silver nanoparticles

KACANG JOGO

2006
PROQUEST

136. Association of *Gluconacetobacter diazotrophicus* with roots of common bean (*Phaseolus vulgaris*) seedlings is promoted *in vitro* by UV light/ Alejandra Trujillo-López ...[*et al*.]
Canadian Journal of Botany. Ottawa:Feb 2006. Vol.84, Iss. 2, p. 321-327
Keywords: Kidney beans; Phaseolus vulgaris; Seedlings; Gluconacetobacter diazotrophicus; In vitro; Ultraviolet radiation

137. Degradation of ureidoglycolate in French bean (*Phaseolus vulgaris*) is catalysed by a ubiquitous ureidoglycolate urea-lyase/ Alfonso Muñoz ...[*et al*.]
Planta. Berlin:Jun 2006. Vol. 224, Iss. 1, p. 175-184
Keywords:French beans; Phaseolus vulgaris; Degradation; Ureidoglycolate

138. Diurnal population trends of *Megalurothrips sjostedti* and *Frankliniella occidentalis* (Thysanoptera: Thripidae) and their natural enemies on French bean *Phaseolus vulgaris* (*Fabaceae*)/ J Kasina ...[*et al*.]
International Journal of Tropical Insect Science. Cambridge:Mar 2006. Vol. 26, Iss. 1, p. 2-7
Keywords: Phaseolus vulgaris; Megalurothrips sjostedti; Frankliniella occidentalis; Diurnal population;French beans; Natural enemies

139. Early responses to nod factors and mycorrhizal colonization in a non-nodulating *Phaseolus vulgaris* mutant/ Luis Cárdenas ...[*et al*.]
Planta. Berlin:Mar 2006. Vol. 223, Iss. 4, p. 746-754
Keyworsd: Phaseolus vulgaris; Nod factors; Mycorrhizal colonization; Nodulating

140. Evaluation of companion crops for thrips (Thysanoptera: Thripidae) management on French bean *Phaseolus vulgaris*

(Fabaceae)/ J Kasina J ...[*et al*.]
International Journal of Tropical Insect Science. Cambridge:Jun 2006. Vol. 26, Iss. 2, p. 121-125
Keywords:French beans; Phaseolus vulgaris; Companion crops; Thrips

141. *Gluconacetobacter diazotrophicus,* a diazotrophic endophyte that is a potential biofertilizer: the mechanisms of G. genetic and molecular characterization of the I Locus of *Phaseolus vulgaris*/ Eduardo Vallejos ...[*et al*.]
Genetics. Bethesda:Feb 2006. Vol. 172, Iss. 2, p. 1229-1242
Keywords:Phaseolus vulgaris; Gluconacetobacter diazotrophicus; Biofertilizers; Molecular characterization

142. Increasing UV-B induces biphasic leaf cell expansion in *Phaseolus vulgaris*, suggesting multiple mechanisms for controlling plant growth/ Lenore Barkan, Marc A Evans, Gerald E Edwards
Photochemistry and Photobiology. Augusta:Nov/Dec 2006. Vol. 82, Iss. 6, p. 1612-1620
Keywords: Phaseolus vulgaris; Ultraviolet-B; Leaf cell expansion; Controlling mechanisms; Plant growth

143. Influence of the *Phaseolus vulgaris* phaseolin level of incorporation, type and thermal treatment on gut characteristics in rats/ Carlos A Montoya ...[*et al*.]
British Journal of Nutrition. Cambridge:Jan 2006. Vol. 95, Iss. 1, p. 116-123
Keywords:Phaseolus vulgaris; Rats; Phaseolin level; Thermal treatment; **Gut characteristics**

144. Nutritional evaluation of raw and extruded kidney bean (*Phaseolus vulgaris*
L. var. Pinto) in chicken diets/ I Arija ...[*et al*.]
Poultry Science. Savoy:Apr 2006. Vol. 85, Iss. 4, p. 635-644
Keywords: Phaseolus vulgaris; Kidney beans; Nutritional evaluation; Chicken diet

145. Protein quality of germinated *Phaseolus vulgaris*/ E Sangronis, M Rodríguez, R Cava, A Torres.
European Food Research and Technology = Zeitschrift für Lebensmittel-Untersuchung und -Forschung. A. Heidelberg:Jan 2006. Vol. 222, Iss. 1-2, p. 144-148
Keywords:Phaseolus vulgaris; Protein quality; Germination

146. Reaction to three races of fusarium wilt in the *Phaseolus vulgaris* core collection/ Mark A Brick ...[*et al*.]
Crop Science. Madison:May/Jun 2006. Vol. 46, Iss. 3, p. 1245-1252
Keywords:Phaseolus vulgaris; Fusarium; Wilt; Core collection

147. Reproductive consequences of *Colletotrichum lindemuthianum* (Ascomycota) infection on wild bean plants (*Phaseolus vulgaris*)/ Julien Bénard-Capelle, Samuel Soubeyrand, Claire Neema
Canadian Journal of Botany. Ottawa:Oct 2006. Vol. 84, Iss. 10, p. 1542-1547
Keywords: Phaseolus vulgaris; Wild beans; Reproductive consequences; Colletotrichum lindemuthianum; Infection

148. Whitefly *Bemisia tabaci* (Gennadius) as pest and vector of plant viruses of common bean (*Phaseolus vulgaris* L.)/ María Elena Cuéllar, Francisco J Morales
Revista Colombiana de Entomología. Bogota:2006. Vol. 32, Iss. 1, p. 1-9
Keywords: Phaseolus vulgaris; Whitefly; Bemisia tabaci; Pests of plants; Vector; Plant viruses

SCIENCEDIRECT

149. Antinutrients and '*in vitro*' availability of iron in irradiated common beans *(Phaseolus vulgaris)*/ P. Brigide, S.G. Canniatti-Brazaca
Food Chemistry, Volume 98, Issue 1, 2006, p. 85-89, ISSN

0308-8146
Keywords:Common beans; Phaseolus vulgaris; Iron; Irradiation; Cooking; Dialysis

150. Cell wall polysaccharides of common beans (*Phaseolus vulgaris* L.): composition and structure/ Tania M. Shiga, Franco M. Lajolo
Carbohydrate Polymers, Volume 63, Issue 1, 18 January 2006, p. 1-12, ISSN 0144-8617
Keywords:Common beans; Phaseolus vulgaris; Pectin; Carbohydrates; Gas chromatography

151. Content of flavonols in Italian bean (*Phaseolus vulgaris* L.) ecotypes/ Giovanni Dinelli …[*et al*.]
Food Chemistry, Volume 99, Issue 1, 2006, Pages 105-114, ISSN 0308-8146
Keywords: Phaseolus vulgaris; Italian bean ecotypes; Flavonols; Kaempferol; Nutraceutical compounds; Methanol extracts; Seeds

152. Effects of micronization pretreatments on the physicochemical properties of navy and black beans (*Phaseolus vulgaris* L.)/ G. Bellido …[*et al*.]
LWT - Food Science and Technology, Volume 39, Issue 7, September 2006, p. 779-787, ISSN 0023-6438
Keywords:Phaseolus vulgaris; Infrared processing; Micronization;Tempering; Texture; Colour; Protein levels

153. Effects of organic versus conventional fertilizers on insect pests, natural enemies and yield of *Phaseolus vulgaris*/ J. Karungi, B. Ekbom, S. Kyamanywa
Agriculture, Ecosystems & Environment, Volume 115, Issues 1-4, July 2006, p. 51-55, ISSN 0167-8809
Keywords:Phaseolus vulgaris; Aphis fabae; Maruca vitrata; Soil fertility; Soil amendments; NPK fertilizers; Insect pests; Natural enemies; Yields

154. Effects of post-emergence application of bentazon and fomesafen on eight market classes of dry beans (*Phaseolus vulgaris* L.)/ Nader Soltani, Christy Shropshire, Peter H. Sikkema

Crop Protection, Vol. 25, Issue 8, August 2006, p. 826-830, ISSN 0261-2194
Keywords: Phaseolus vulgaris; Bentazon; Fomesafen; Crop injury; Sensitivity

155. Emulsifying and foaming properties *of Phaseolus vulgaris* and *Phaseolus coccineus* proteins/ Eleousa A. Makri, Georgios I. Doxastakis
Food Chemistry, Volume 98, Issue 3, 2006, p. 558-568, ISSN 0308-8146
Keywords:Phaseolus vulgaris; Phaseolus coccineus; Proteins isolates; Emulsion stability; Foaming stability

156. Functional properties of three common bean (*Phaseolus vulgaris*) cultivars stored under accelerated conditions followed by extrusion/ N.E. Rocha-Guzman…[*et al*.]
LWT - Food Science and Technology, Volume 39, Issue 1, January 2006, p. 6-10, ISSN 0023-6438
Keywords:Common beans; Phaseolus vulgaris; Extrusion; Functional properties; Storage

157. Genetic diversity of rhizobia associated with common bean (*Phaseolus vulgaris L.*) grown under no-tillage and conventional systems in Southern Brazil/ G. Kaschuk …[*et al*.]
Applied Soil Ecology, Vol.32, Iss. 2, June 2006, p. 210-220, ISSN 0929-1393
Keywords: Bacterial diversity; Common beans; Phaseolus vulgaris*;* Nitrogen fixation; Rhizobium; Tillage systems

158. Genotype x cropping system interaction in climbing beans (*Phaseolus vulgaris* L.) grown as sole crop and in association with maize (*Zea mays* L.)*/* Setegn Gebeyehu, Belay Simane, Roger Kirkby
European Journal of Agronomy, Volume 24, Issue 4, May 2006, p. 396-403, ISSN 1161-0301
Keywords:Phaseolus vulgaris; Genotypes; Zea mays; Intercropping; Cultivars; Sole cropping

159. Genotypic variation of N2-fixing common bean (*Phaseolus*

vulgaris L.) in response to iron deficiency/ Abdelmajid Krouma, Jean-Jacques Drevon, Chedly Abdelly
Journal of Plant Physiology, Volume 163, Issue 11, 1 November 2006, p. 1094-1100, ISSN 0176-1617
Keywords: Common beans; Feed eficiency; Genotypic variability; Symbiotic; Nitrogen fixation

160. Molecular characterization of *Phaseolus vulgaris L*. genotypes included in Bulgarian collection by ISSR and AFLP(TM) analyses/ Diana Svetleva …[*et al*.]
Scientia Horticulturae, Volume 109, Issue 3, 21 July 2006, p. 198-206, ISSN 0304-4238
Keywords:Common beans; Phaseolus vulgaris; Genetic similarity; Molecular markers; Germplasm; Genetic diversity; Genotypes

161. Natural occurrence of free anthocyanin aglycones in beans (*Phaseolus vulgaris* L.)/ Glenda A. Macz-Pop …[*et al*.]
Food Chemistry, Volume 94, Issue 3, February 2006, p. 448-456, ISSN 0308-8146
Keywords:Anthocyanins; Anthocyanidins; Beans; Legumes; Phaseolus vulgaris

162. Organogenic plant regeneration system for common bean (*Phaseolus vulgaris* L.)/ P. Delgado-Sanchez …[*et al*.]
Plant Science, Volume 170, Issue 4, April 2006, p. 822-827, ISSN 0168-9452
Keywords:Phaseolus vulgaris; Organogenesis; Benzylaminopurine; Adenine; Shoot formation; Genetic variation

163. Otebo bean *(Phaseolus vulgaris*) sensitivity to pre-emergence herbicides/ Nader Soltani …[*et al*.]
Crop Protection, Volume 25, Issue 5, May 2006, p. 476-479, ISSN 0261-2194
Keywords:Clomazone; Dimethenamid; Imazethepyr; Smetolachlor; Herbicide sensitivity

164. Partial resistance to bean golden mosaic virus in a transgenic common bean (*Phaseolus vulgaris* L.) line expressing a mutated rep gene/ Josias C. Faria…[*et al*.]
Plant Science, Vol.171, Issue 5, November 2006, p. 565-571, ISSN 0168-9452
Keywords: Common beans; Phaseolus vulgaris; Dry beans; Geminivirus; Transgenic plants; Virus resistance

165. Phenolic acids content of fifteen dry edible bean *(Phaseolus vulgaris L.)* varieties/ Devanand L. Luthria, Marcial A. Pastor-Corrales
Journal of Food Composition and Analysis, Volume 19, Issues 2-3, March-May 2006, p. 205-211, ISSN 0889-1575
Keywords: Phenolic acids; Caffeic acid;Coumaric acid; Ferulic acid; Sinapic; Ten beans class; Varieties; Soaking; Cooking; Sequential hydrolysis; Phaseolus vulgaris

166. RAPD analysis of genetic diversity among and within Portuguese landraces of common white bean (*Phaseolus vulgaris* L.)/ S.R. Martins …[*et al*.]
Scientia Horticulturae, Volume 108, Issue 2, 10 April 2006, p. 133-142, ISSN 0304-4238
Keywords:Gametic disequilibrium; Genetic variability; Phaseolus vulgaris;

167. Relationship between variation in quality of individual seeds and bulk seed quality in common bean (*Phaseolus vulgaris* L.) seed lots/ R.M. Muasya …[*et al*.]
NJAS - Wageningen Journal of Life Sciences, Volume 54, Issue 1, 2006, p. 5-16, ISSN 1573-5214
Keywords: Common beans; Phaseolus vulgaris; Cultivars; Seeds; Variation; Electrical conductivity; Tetrazolium; Variability

168. Study of emulsions stabilized with *Phaseolus vulgaris* or *Phaseolus coccineus* with the addition of Arabic gum, locust bean gum and xanthan gum/ Eleousa A. Makri, Georgios I.

Doxastakis
Food Hydrocolloids, Volume 20, Issue 8, December 2006, p. 1141-1152, ISSN 0268-005X
Keywords:Common beans; Phaseolus vulgaris; Emulsion stability; Coalescence; Arabic gum; Locust bean gum; Xanthan gum; Adsorbed protein

TEEAL

169. Acquired changes in stomatal characteristics in response to ozone during plant growth and leaf development of bush beans (*Phaseolus vulgaris* L.) indicate phenotypic plasticity/ Elagoz V; Han S.S; Manning W.J
Environmental Pollution, 2006, 140 (3), p. 395-405
Keywords: Phaseolus vulgaris; **Air pollutants; Ozone; Stomatal characteristics; Climatology; Cultivars; Growth; Leaf conductance; Phenotypes; Plant development**

170. Association of gluconacetobacter diazotrophicus with roots of common bean (*Phaseolus vulgaris*) seedlings is promoted in vitro by UV light/ Trujillo Lopez ...[*et al*.]
Canadian Journal of Botany, 2006, 84 (2), p. 321-327
Keywords: Common bean; Phaseolus vulgaris; Gluconacetobacter diazotrophicus; Radiation biology; Ecology; Environmental sciences

171. Characterization of *Rhizoctonia solani* Kuhn isolates that induce root rot in black bean cultivars (*Phaseolus vulgaris* L.) / Gutierrez B; Gonzalez M S; Salih L A
Bioagro, 2006, 18 (1), p. 63-72
Keywords: Phaseolus vulgaris; Cultivars; Rhizoctonia solani; Fungal diseases; Genetic diversity; Genetic variation; Pathogenicity; Root rots; Plant pathogenic fungi; Plant pathogens

172. Co-evolution of physiological races of *Colletotrichum lindemuthianum* and common bean/ Chiorato A.F; Carbonell S.A.M; Moura R.R
Bragantia, 2006, 65 (3), p. 381-388
Keywords: Phaseolus vulgaris; Common bean; Colletotrichum lindemuthianum; Anthracnose; Principal components; Disease resistance

173. Content of flavonols in Italian bean (*Phaseolus vulgaris* L.) ecotypes / Dinelli-G. ...[*et al*.]
Food Chemistry, 2006, 99 (1), p. 105-114
Keywords: Phaseolus vulgaris; Chemical composition; Cultivars; Flavonols; Kaempferol; Seeds

174. Emulsifying and foaming properties of *Phaseolus vulgaris* and coccineus proteins/ Makri E.A; Doxastakis G.I
Food Chemistry, 2006, 98 (3), p. 558-568
Keywords: Phaseolus vulgaris; Emulsifying; Emulsions; Foaming; PH; Protein isolates

175. Genetic and molecular characterization of the I locus of *Phaseolus vulgaris* /Vallejos CE …[*et al*.]
Genetics, 2006, 172 (2), p. 1229-1242
Keywords: Amino acid sequences; Gene duplication; Molecular sequence; Multigene family; Phaseolus vulgaris; Plant viruses

176. Identification of candidate phosphorus stress induced genes in *Phaseolus vulgaris* through clustering analysis across several plant species / Graham M.A. ...[*et al*.]
Functional Plant Biology, 2006, 33 (8), p. 789-797
Keywords: Bioinformatics; Cluster analysis; Expressed sequenced tags; Genes; Genomics; Legumes; Mineral deficiencies; Nutrient deficiencies; Phosphorus; Plant nutrition

177. Inheritance of white mold resistance in *Phaseolus vulgaris* x *P. coccineu*s crosses/ Schwartz H.F. …[*et al*.]
Plant Disease, 2006, 90 (9), p. 1167-1170
Keywords: Phaseolus vulgaris; Phaseolus coccineus; Disease resistance; Fungal diseases; Genetic resistance; Hybrids; Inheritance; Interspecific hybridization; Plant diseases; Plant pathogenic fungi; Plant pathogens

178. Natural occurrence of free anthocyanin aglycones in beans (*Phaseolus vulgaris* L.)/ Macz-Pop-G-A. ...[*et al*.]
Food Chemistry, 2006, 94 (3), p. 448-456
Keywords: Anthocyanidins; Anthocyanins; Chemical composition; Glucosides; Phaseolus vulgaris; Vegetable legumes

179. Patterns of accumulation of bean common mosaic virus in *Phaseolus vulgaris* genotypes nearly isogenic for the I locus/ Cadle-Davidson-M-M. Jahn-M-M
Annals of Applied Biology, 2006, 148 (3), p. 179-185
Keywords: Alleles; Disease resistance; Genotypes; Heterozygotes; Loci; Plant pathogens; Plant viruses; Phaseolus vulgaris

180. Registration of 'Sedona' pink bean/ Kelly J.D. …[*et al*.]
Crop Science, 2006, 46 (6), p. 2707-2708
Keywords: Crop yield; Disease resistance; Fungal diseases; Habitats; New cultivars; Plant diseases; Plant viruses; Seed quality potyvirus

181. Reproductive consequences of *Colletotrichum lindemuthianum* (*Ascomycota*) infection on wild bean plants (*Phaseolus vulgaris*)/ Benard Capelle.J; Soubeyrand S; Neema C
Canadian Journal of Botany, 2006, 84 (10), p. 1542-1547
Keywords: Phaseolus vulgaris; Colletotrichum lindemuthianum; **Disease prevalence; Fungal diseases; Infection; Pathogenicity; Plant diseases; Plant pathogens; Seed germination**

182. Side dressing sulfur fertilization in common bean crop in no-tillage system /
Crusciol C.A.C; Soratto R.P; Silva L.M.
Bragantia, 2006, 65 (3), p. 459-465
Keywords: Phaseolus vulgaris; Yield components; Mineral nutrition; Ammonium sulfate

183. Weed control with vegetal mulch in black beans (*Phaseolus vulgaris* L.) crop/ Najul C; Anzalone A
Bioagro, 2006, 18 (2), p. 75-82
Keywords: Phaseolus vulgaris; Chemical control; Cultural control; Herbicides; Manual weed control; Mulches; Straw mulches; Weed control

2007
PROQUEST

184. *Agrobacterium tumefaciens* mediated transfer of *Phaseolus vulgaris* [alpha]-amylase inhibitor-1 gene into mungbean *Vigna radiata* (L.) Wilczek using bar as selectable marker/ Sonia …[*et al*.]
Plant Cell Reports.Berlin:Feb 2007. Vol. 26, Iss. 2, p. 187-198
Keywords: Phaseolus vulgaris; Agrobacterium tumefaciens; Vigna radiata; Mung beans; Alpha amylase; Selectable marker

185. Analysis of seed zinc and other minerals in a recombinant inbred population of navy bean (*Phaseolus vulgaris* L.) / J R Gelin ...[*et al*.]
Crop Science. Jul/Aug 2007. Vol. 47, Iss. 4, p. 1361-1366
Keywords:Phaseolus vulgaris; Navy beans; Inbred population; Zinc; Minerals

186. Biochemical characterisation of an allantoate-degrading enzyme

from French bean (*Phaseolus vulgaris*): the requirement of phenylhydrazine/ María José Raso …[*et al*.]
Planta. Berlin:Oct 2007. Vol. 226, Iss. 5, p. 1333-1342
Keywords: Phaseolus vulgaris; French beans; Biochemical characterization; Allantoate degrading enzyme; Phenylhydrazine

187. Biological nitrogen fixation by common beans (*Phaseolus vulgaris* L.) increases with bio-char additions/ Marco A Rondon, Johannes Lehmann, Juan Ramírez
Biology and Fertility of Soils. Berlin:Aug 2007. Vol. 43, Iss.6, p. 699-708
Keywords:Phaseolus vulgaris; Kidney beans; Nitrogen fixation

188. Compensation among root classes in *Phaseolus vulgaris* L./ Gerardo Rubio, Jonathan P Lynch
Plant and Soil. The Hague:Jan 2007. Vol. 290, Iss. 1-2, p. 307-321
Keywords:Phaseolus vulgaris; Root classes; Compensation

189. Effects of plant growth-promoting *rhizobacteria* on nodulation of *Phaseolus vulgaris* L. are dependent on plant P nutrition/ Roseline Remans ...[*et al*.]
European Journal of Plant Pathology. Dordrecht:Nov 2007. Vol. 119, Iss. 3, p. 341-351
Keywords:Phaseolus vulgaris; Rhizobacteria; Plant growth; Root nodulation; Phosphorus

190. Gene flow in common bean *(Phaseolus vulgaris* L.)/ Juliano Lino Ferreira ...[*et al*.]
Euphytica. Dordrecht:Jan 2007. Vol. 153, Iss. 1-2, p. 165-170
Keywords:Phaseolus vulgaris; Kidney beans; Gene flow

191. Genetic architecture of chalcone isomerase non-coding regions in common bean (*Phaseolus vulgaris* L.)/ Phillip E McClean, Rian K Lee
Genome. Ottawa:Feb 2007. Vol. 50, Iss. 2, p. 203-214

Keywords: Phaseolus vulgaris; Genetic architecture; Chalcone isomerase

192. Genetic diversity and symbiotic efficiency of population of *rhizobia* of *Phaseolus vulgaris* L. in Brazil/ Adriana Giongo ...[*et al*.]
Biology and Fertility of Soils. Berlin:Jun 2007.Vol. 43, Iss. 5, p. 593-598
Keywords:Phaseolus vulgaris; Genetic diversity; Rhizobia; Brazil

193. Growth performances of broiler chickens as affected by diets containing common bean (*Phaseolus vulgaris*) treated by different methods/ A Teguia, S Fon Fru
Tropical Animal Health and Production.Dordrecht: Aug 2007. Vol. 39, Iss. 6, p. 405-410
Keywords:Phaseolus vulgaris; Kidney beans; Broiler chickens; Growth performance; Diet

194. Increase in XET activity in bean (*Phaseolus vulgaris* L.) cells habituated to dichlobenil/ A Alonso-Simón ...[*et al*.]
Planta. Berlin:Aug 2007. Vol. 226, Iss. 3, p. 765-771
Keywords: Phaseolus vulgaris; XET activity; Dichlobenil

195. Influence of soluble sugars on seed quality in nodulated common bean (*Phaseolus vulgaris* L.): The case of trehalose/Josué Altamirano-Hernández …[*et al*.]
Crop Science. Madison:May/Jun 2007. Vol. 47, Iss. 3, p. 1193-1205
Keywords: Phaseolus vulgaris; Kidney beans; Soluble sugars; Seed quality; Trehalose

196. Mode of inheritance of common bean (*Phaseolus vulgaris* L.) traits for tolerance to low soil phosphorus (P)/ John Munji Kimani …[*et al*.]
Euphytica. Dordrecht:May 2007. Vol. 155, Iss. 1-2, p. 225-234
Keywords:Phaseolus vulgaris; Kidney beans; Traits; Soil phosphorus; Inheritance

197. Molecular cloning and characterization of phosphorus starvation responsive genes in common bean (*Phaseolus vulgaris* L.)/ Jiang Tian ...[*et al*.]
Planta. Berlin:Dec 2007. Vol. 227, Iss. 1, p. 151-165
Keywords: Phaseolus vulgaris; Kidney beans; Molecular cloning; Phosphorus starvation; Genes

198. Quantitative trait loci associated with bacterial brown spot in *Phaseolus vulgaris* L/ Felix Navarro …[*et al*.]
Crop Science. Jul/Aug 2007. Vol. 47, Iss. 4, p. 1344-1353
Keywords:Phaseolus vulgaris; Bacterial brown spot; Trait loci

199. Role of dissimilatory fermentative iron-reducing bacteria in Fe uptake by common bean (*Phaseolus vulgaris* L.) plants grown in alkaline soil/ Eduardo Valencia-Cantero ...[*et al*.]
Plant and Soil. The Hague:Feb 2007. Vol. 291, Iss. 1-2, p. 263-273
Keywords: Phaseolus vulgaris; Kidney beans; Alkaline soils; Iron uptake; Reducing bacteria

200. Rhizobial inoculation and p fertilization response in common bean (*Phaseolus vulgaris*) under glasshouse and field conditions/ M Zaman-Allah ...[*et al*.]
Experimental Agriculture. Cambridge:Jan 2007. Vol. 43, Iss. 1, p. 67-77
Keywords: Phaseolus vulgaris; Kidney beans; Rhizobial inoculation; Phosphate fertilization

201. Selenium uptake and species distribution in selenium-enriched bean (*Phaseolus vulgaris* L.) seeds obtained by two different cultivations/ Polona Smrkolj …[*et al*.]
European Food Research and Technology = Zeitschrift für Lebensmittel-Untersuchung und -Forschung. A. Heidelberg:Jun 2007. Vol. 225, Iss. 2, p. 233-237
Keywords:Phaseolus vulgaris; Seeds; Cultivation; Selenium uptake

202. Yield, yield components and plant architecture in the F3 generation of common bean (*Phaseolus vulgaris* L.) derived from a cross between the determinate cultivar 'Prelude' and an indeterminate landrace / Mohamed I Dawo, Francis E Sanders,

David J Pilbeam
*Euphytic*a. Dordrecht:Jul 2007. Vol. 156, Iss. 1-2, p. 77-87
Keywords:Phaseolus vulgaris; Kidney beans; Hybridization; Yields; Yield components

TEEAL

203. Analysis of seed zinc and other minerals in a recombinant inbred population of navy bean (*Phaseolus vulgaris* L.)/ Gelin J.R. ...[*et al*.]
Crop Science, 2007, 47 (4), p. 1361-1366
Keywords: Genetic analysis; Genetic variation; Genotypes; Inbred lines; Landraces; Mineral deficiencies; Recombination; Seeds; Zinc

204. Antioxidant and antimutagenic activity of phenolic compounds in three different colour groups of common bean cultivars (*Phaseolus vulgaris*)/ Rocha Guzman.N.E. ...[*et al*.]
Food Chemistry, 2007, 103 (2), p. 521-527
Keywords: Antimutagenic properties; Antioxidant properties; Chemical composition; Cotyledons; Cultivars; Free radicals; Medicinal plants

205. Chemical analysis of french beans (*Phaseolus vulgaris* L.) by headspace solid phase microextraction (HS-SPME) and simultaneous distillation extraction (SDE) / Barra-A. ...[*et al*.]
Food Chemistry 2007, 101 (3), p. 1279-1284
Keywords: Alcohols; Chemical analysis; Distillation; Esters; Hydrocarbons; Terpenoids; Volatile compounds; Phaseolus vulgaris

206. Drought resistance in the race Durango dry bean landraces and cultivars /Singh-S-P
Agronomy Journal, 2007, 99 (5), p. 1219-1225
Keywords: Correlation analysis; Yields; Cultivars; Genotype environment interaction; Maturation period; Phenotypic correlation

207. Effect of processing on antinutrients and *in vitro* protein digestibility of kidney bean (*Phaseolus vulgaris* L.) varieties grown in East Africa / Shimelis-E-A. Rakshit-S-K, *Food*

Chemistry, 2007, 103 (1), p. 161-172
Keywords: Alpha alactosidase; Antinutritional factors; Autoclaving; Cooking; Flatus; Germination; Hydration; In vitro; Legume protein; Digestibility; Phaseolus vulgaris

208. Elevation of atmospheric CO2 and N-nutritional status modify nodulation, nodule-carbon supply, and root exudation of *Phaseolus vulgaris* L / Haase-S. ...[*et al*.]
Soil Biology & Biochemistry, 2007, 39 (9), p. 2208-2221
Keywords: Biomass production; Carbon; Carbon dioxide enrichment; Coumoestrol; Flavonoids; Genistein; Malic acid; Nitrogen; Phaseolus vulgaris

209. First report of tomato yellow leaf curl virus infecting common bean (*Phaseolus vulgaris*) in Greece/ Papayiannis.L.C; Paraskevopoulos.A; Katis.N.I
Plant Disease, 2007, 91 (4), p. 465-469
Keywords: Disease resistance; Disease transmission; Disease vectors; Geographical distribution; Insect pests; Nucleotide sequences; Plant diseases; Phaseolus vulgaris; Tomato yellow leaf curl virus

210. Genetic architecture of chalcone isomerase non-coding regions in common bean (*Phaseolus vulgaris* L.) /McClean.P.E; Lee. R.K
Genome, 2007, 50 (2), p. 203-214
Keywords: Phaseolus vulgaris; Genetic analysis; Genetic diversity; Genetic variation; Genotypes; Nucleotide sequences; Recombination; Single nucleotide polymorphism; Papilionoideae; Phaseolus vulgaris

211. Grain legumes in northern great plains impacts on selected biological soil processes/ Lupwayi.N.Z; Kennedy.A.C
Agronomy Journal, 2007, 99 (6), p. 1700-1709
Keywords: Biological control; Biological control agents; Carbon dioxide; Chickpeas; Crop residues; Cropping systems; Denitrification; Emission; Grain legumes; Greenhouse gases; Lentils

212. Influence of soluble sugars on seed quality in nodulated common bean (Phaseolus vulgaris L.): the case of trehalose/Altamirano Hernandez J. ...[*et al*.]
Crop Science, 2007, 47 (3), p. 1193-1205
Keywords: Phaseolus vulgaris; Nodulation; Seed germination; Seed quality; Seeds; Sugars;Trehalose; Vigour

213. Metal accumulation and growth performance of *Phaseolus vulgaris* grown in fly ash amended soil/ Gupta A.K. ...[*et al*.]
Bioresource Technology, 2007, 98 (17), p.s 3404-3407
Keywords: Application rates; Cadmium; Cation exchange capacity; Cobalt; Copper; Electrical conductivity; Fly ash; Growth; Heavy metals; Phaseolus vulgaris Iron; Lead; Manganese; Metal tolerance; Phaseolus vulgaris

214. New insights into the origins and evolution of rhizobia that nodulate common bean (*Phaseolus vulgaris*) in Brazil /Grange L. …[*et al*.]
Soil Biology & Biochemistry, 2007, 39 (4), p. 867-876
Keywords: Phaseolus vulgaris; **Genetic diversity; Nitrogen fixation; Nodulation**

215. Nitrogen economy of pulse crop production in the Northern Great Plains/ Walley F.L; Clayton G.W; Miller P.R.
Agronomy Journal, 2007, 99 (6), p. 1710-1718
Keywords: Chickpeas; Faba beans; Grain legumes; Nitrogen balance; Nitrogen content; Nitrogen fixation; Peas

216. N-terminal region of the starch-branching enzyme from *Phaseolus vulgaris* L. is essential for optimal catalysis and structural stability/ Hamada S. ..[*et al*.]
Phytochemistry, 2007, 68 (10), p. 1367-1375
Keywords: Amino acid sequences; Catalysts; Chemical

composition; Chemical structure; Enzyme activity; Phaseolus vulgaris

217. Polyphasic characterization of *Brazilian Rhizobium* tropici strains effective in fixing N2 with common bean (*Phaseolus vulgaris* L.)/ Pinto F.S; Hungria M; Mercante
Soil Biology & Biochemistry, 2007, 39 (8), p. 1851-1864
Keywords: Characterization; DNA sequencing; Genes; Genetic analysis; Genetic diversity; Nitrogen fixation; Nitrogen fixing bacteria; Phenotypes

218. PvUPS1 plays a role in source-sink transport of allantoin in french bean (*Phaseolus vulgaris*)/ Pelissier H.C; Tegeder M
Functional Plant Biology, 2007, 34 (4), p. 282-291
Keywords: Phaseolus vulgaris; Allantoin; Source sink transport

219. Quantitative trait loci associated with bacterial brown spot in *Phaseolus vulgaris* L / Navarro F; Skroch P; Jung G.H; Nienhuis
Crop Science, 2007, 47 (4), p. 1344-1353
Keywords: Cultivars; Genetic analysis; Inbred lines; Landraces; Plant diseases; Plant pathogenic bacteria; Plant pathogens; Quantitative trait loci

220. Quantitative trait loci linked to white mold resistance in common bean/ Maxwell J.J. ...[*et al*.]
Crop Science, 2007, 47 (6), p. 2285-2294
Keywords: Artificial selection; Chromosome maps; Chromosomes; Disease resistance; Fungal diseases; Genetic mapping; Genetic markers; Genetic resistance; Inbred lines; Linkage; Plant diseases; Phaseolus vulgaris

221. Response of cultivars of race Durango to continual dry bean versus rotational production systems / Hayes R; Singh S.P
Agronomy Journal, 2007, 99 (6), p. 1458-1462

Keywords: Correlation analysis; Crop yield; Cultivars; Genotype environment interaction; Maturation period; Phenotypic correlation; Rotation; Seeds

222. RNAi-mediated resistance to bean golden mosaic virus in genetically engineered common bean (*Phaseolus vulgaris*) / Bonfim K; Faria J C; Nogueira E.O.P.L
Molecular Plant Microbe Interactions, 2007, 20 (6), p. 717-726
Keywords: Phaseolus vulgaris; **Disease resistance; Gene silencing; Genetic engineering; Plant pathogens; Polymerase chain reaction**

223. Selecting common bean with genes of different evolutionary origins for resistance to *Xanthomonas campestris* pv. *Phaseoli*/Lema-Marquez-M. Teran-H. Singh-S-P
Crop Science, 2007, 47 (4), p. 1367-1374
Keywords: Phaseolus vulgaris; **Disease resistance; Genetic resistance; Plant diseases; Plant pathogenic; Bacteria; Plant pathogens**

224. Surface tension of *Phaseolus vulgaris* and coccineus proteins and effect of polysaccharides on their foaming properties/Makri E.A; Doxastakis G.I
Food Chemistry, 2007, 101 (1), p. 37-48
Keywords: Phaseolus vulgaris; Chemical composition; Foaming; Gum arabic; Plant composition; Plant proteins; Polysaccharides; Protein content; Surface tension

2008
PROQUEST

225. Dynamics of phosphorus fractions in the rhizosphere of common bean *Phaseolus vulgaris* L.) and durum wheat (*Triticum turgidum durum* L.) grown in monocropping and intercropping systems/ H Li ...[*et al*.]
Plant and Soil. The Hague:Nov 2008. Vol. 312, Iss. 1-2, p. 139-150
Keywords:Phaseolus vulgaris; Triticum turgidum durum; Phosphorus; Rhizosphere; Monocropping; Intercropping

226. Effect of inulin and probiotic bacteria on iron availability in beans (*Phaseolus vulgaris* L.)/ J M Laparra, R P Glahn, D Miller
Proceedings of the Nutrition Society. Cambridge: May 2008. Vol. 67, p. E47
Keywords: Phaseolus vulgaris; Inulin; Probiotic; Iron; Nutritional availability

227. Effect of *Rhizobium-Azospirillum* coinoculation on nitrogen fixation and yield of two contrasting *Phaseolus vulgaris* L. genotypes cultivated across different environments in Cuba/ Roseline Remans ...[*et al*.]
Plant and Soil. The Hague:Nov 2008. Vol. 312, Iss. 1-2, p. 25-37
Keywords:Phaseolus vulgaris; Rhizobium; Azospirillum; Nitrogen fixation; Genotypes; Yields

228. Growth, nitrogen fixation and ammonium assimilation in common bean (*Phaseolus vulgaris* L) subjected to iron deficiency / Tarek Slatni ...[*et al*.]
Plant and Soil. The Hague:Nov 2008. Vol. 312, Iss. 1-2, p. 49-57
Keywords:Phaseolus vulgaris; Iron; Nutrient deficiencies; Growth; Nitrogen fixation; Ammonium; Assimilation

229. Lectins, trypsin and [alpha]-amylase inhibitors in dietary supplements containing *Phaseolus vulgaris* / Concetta Boniglia ...[*et al*.]
European Food Research and Technology A. Heidelberg:Jul 2008. Vol. 227, Iss. 3, p. 689-693
Keywords:Lectins; Trypsin; Amylase; Diet; Supplements; Phaseolus vulgaris

230. Legume anchor markers link syntenic regions between phaseolus vulgaris, lotus japonicus, medicago truncatula and arachis/ Birgit Kristine Hougaard, ...[*et al*.]
*Genetic*s. Bethesda:Aug 2008. Vol. 179, Iss. 4, p. 2299-2312
Keywords:Phaseolus vulgaris; Lotus japonicus; Medicago truncatula; Arachis;Linkage; Genetic matters

231. Locus-specific microsatellite markers in common bean (*Phaseolus vulgaris* L.): isolation and characterization/ B L'taief, R Horres ...[*et al*.]
Euphytica. Dordrecht:Jul 2008. Vol. 162, Iss. 2, p. 311-312
Keywords: Phaseolus vulgaris; Microsatellites markers; Isolation;Characterization

232. Mechanism of genetic control for low soil nitrogen (N) tolerance in common beans (*Phaseolus vulgaris* L.)/ John Munji Kimani, Pangirayi Tongoona
Euphytica. Dordrecht:Jul 2008. Vol. 162, Iss. 2, p. 193-203
Keywords:Phaseolus vulgaris; Soil nitrogen; Genetic control

233. Mechanisms associated with dose-dependent inhibition of rat mammary carcinogenesis by dry bean (*Phaseolus vulgaris*, L.)1-3/ Matthew D ...[*et al*.]
Journal of Nutrition. Bethesda:Nov 2008. Vol. 38, Iss.11, p.

2091-2097
Keywords:Phaseolus vulgaris; Inhibition; Mammary carcinogenesis; Rats

234. Molecular marker-assisted backcrossing of anthracnose resistance into andean climbing beans (*Phaseolus vulgaris* L.) / Luz Nayibe Garzón, Gustavo A Ligarreto, Matthew W Blair.
Crop Science. Madison: Mar/Apr 2008. Vol. 48, Iss. 2, p. 562-570
Keywords: Phaseolus vulgaris; Backcrossing; Anthracnose; Disease resistance; Genetic markers

235. Nutraceutical role of the *Phaseolus vulgaris* [alpha]-amylase inhibitor/ Wokadala Cuthbert Obiro, Tao Zhang, Bo Jiang
British Journal of Nutrition. Cambridge:Jul 2008. Vol. 100, Iss. 1, p. 1-12
Keywords:Phaseolus vulgaris; Amylase; Inhibitor; Nutraceutical role

236. Physiological and genetic analysis of root responsiveness to auxin-producing plant growth-promoting bacteria in common bean (*Phaseolus vulgaris* L.)/ Roseline Remans ...[*et al*.]
Plant and Soil. The Hague:Jan 2008. Vol. 302, Iss. 1-2, p. 149-161
Keywords: Phaseolus vulgaris; Genetic analysis; Roots; Plant response; Auxins; Plant growth promoting bacteria

237. Slow darkening in pinto bean (*Phaseolus vulgaris* L.) seed coats is controlled by a single major gene/ Donna C Junk-Knievel, Albert Vandenberg
Crop Science. Madison:Jan/Feb 2008. Vol. 48, Iss. 1, p. 189-193
Keywords: Phaseolus vulgaris;Genes; Testa; Genetic control

238. Wounding and pathogen infection induce a chloroplast-targeted lipoxygenase in the common bean (*Phaseolus vulgaris* L.)/

Helena Porta, ...[*et al*.]
Planta. Berlin:Jan 2008. Vol. 227, Iss. 2, p. 363-373
Keywords:Phaseolus vulgaris; Plant pathogens;Infection; Lipoxygenase

TEEAL

239. Alternative hosts of Asian soybean rust (*Phakopsora pachyrhizi*) in South Africa/ Nunkumar-A. Caldwell-P-M. Pretorius-Z-A
South African Journal of Plant and Soil, 2008, 25 (1), p. 62-63
Keywords: Alternative hosts; Cowpeas; Fungal diseases; Fungal spores; Lucerne; Pigeon peas; Plant diseases; Plant pathogenic fungi; Plant pathogens; Soybeans

240. Atrain of Clover yellow vein virus that causes severe pod necrosis disease in snap bean/ Larsen-R-C. ...[*et al*.]
Plant Disease, 2008, 92 (7), p. 1026-1032
Keywords: Amino acid sequences; Clones; Cultivars; Disease resistance; Disease vectors; Genes; Germplasm; Plant pathogens; Plant pests; Plant viruses

241. Available radiant energy in an agroforestry system with rubber tress: the productivity of common beans/ Righi-C-A. Bernardes-M-S
Bragantia, 2008, 67 (2), p. 533-540
Keywords: Adaptation; Agroforestry systems; Harvesting date; Intercropping; Intercrops; Irradiation; Light; Solar radiation; Kidney beans

242. Bayesian analysis of the genetic control of survival in F3 families of common bean/ Mora-F. Goncalves-Vidigal-M-C. Santos-A-I Chilean
Journal of Agricultural Research, 2008, 68 (4), p. 334-341
Keywords: Algorithms; Bayesian theory; Genetic analysis; Genetic control; Seeds; Survival; Kidney beans

243. Canning quality model for small white bean lines selected for breeding (*Phaseolus vulgaris* L.)/ Merwe-M-van-der. Osthoff-G. Pretorius-A-J
South African Journal of Plant and Soil, 2008, 25 (1), p. 22-31
Keywords: Canning; Crop quality; Cultivars;Mathematical models; Phaseolus vulgaris

244. Comparison of the phytohaemagglutinin from red kidney bean (*Phaseolus vulgaris*) purified by different affinity chromatography/ Ren-Jiaoya. ...[*et al*.]
Food Chemistry, 2008, 108 (1), p. 394-401
Keywords:Phaseolus vulgaris; Phytohaemagglutinin; Kidney beans; Affinity chromatography

245. Contrasting responses of seed yield to elevated carbon dioxide under field conditions within Phaseolus vulgaris/ Bunce-J-A
Agriculture Ecosystems & Environment, 2008, 128 (4), p. 219-224
Keywords: Carbon dioxide; Crop yield; Cultivars; Growth; Leaves; Photosynthesis; Pods; Seed size; Seeds; Stems; Yield components

246. Development of a coupling-phase SCAR marker linked to the Ur-7 rust resistance gene and its occurrence in diverse common bean lines/ Park-S-O. Steadman-J-R. Coyne-D-P. Crosby-K-M
Crop Science, 2008, 48 (1), p. 357-363
Keywords: Artificial selection; Cultivars; Disease resistance; Fungal diseases; Gene expression; Genes; Genetic diversity; Genetic markers; Genetic resistance; Linkage groups; Plant diseases; Varietal resistance; Kidney beans

247. Differential pathogenicity of *Xanthomonas campestris* pv. *phaseoli* and *X. fuscans* subsp. *fuscans* strains on bean genotypes with common blight resistance/ Mutlu-N. Vidaver-A-K. Coyne-D-

P.
Plant Disease, 2008, 92 (4), p. 546-554
Keywords: Xanthomonas fuscans; Disease resistance; Genetic resistance; Genotypes; Pathogenicity; Plant diseases; Plant pathogenic bacteria; Plant pathogens; Blight

248. Effect of *Azospirillum brasilense* coinoculated with Rhizobium on *Phaseolus vulgari*s flavonoids and nod factor production under salt stress/Dardanelli-M-S...[*et al*.]
Soil Biology & Biochemistry, 2008, 40 (11), p. 2713-2721
Keywords: Phaseolus vulgaris; Azospirillum brasilense; Rhizobium; Flavonoids; Salt stress

249. Effect of crude extract and bioactive compounds of *Heliopsis longipes* on anthracnose incidence, mycorrhization, and nodulation of bean/ Salgado-Garciglia-R. ...[*et al*.]
Agrociencia, 2008, 42 (6), p. 679-688
Keywords: Botanical fungicides; Fungal diseases; Mycorrhizal fungi; Mycorrhizae; Nitrogen fixing bacteria; Nodulation; Phytochemicals; Plant diseases; Plant extracts; Plant pathogenic fungi; Plant pathogens; Heliopsis longipes

250. Effect of zinc source applied to soils on its availability to navy bean/ Gonzalez-D. Obrador-A. Lopez-Valdivia-L-M
Soil Science Society of America Journal, 2008, 72 (3), p. 641-649
Keywords: Acid soils; Calcareous soils; Crop yield; Dry matter; Leaching; Nutrient availability; Plant nutrition; Soil types; Zinc; Zinc fertilizers; Kidney beans

251. Effects of planting season and plant cultivar on growth, development, and pod production in snap bean (*Phaseolus vulgaris* L.)/ Perez-Barbeito-M. ...[*et al*.]
Australian Journal of Agricultural Research, 2008, 59 (12), p. 1121-1129

Keywords: Crop quality; Crop yield; Cultivars; Earliness; Growth; Planting date; Pods; Seeds; Phaseolus vulgaris

252. Functional diversity of soil bacteria as affected by management practices and phenological stage of *Phaseolus vulgaris*/ Papatheodorou-E-M. Efthimiadou-E. Stamou-G-P
European Journal of Soil Biology, 2008, 44 (4), p. 429-436
Keywords: Soil biological activity; Growth stage; Cropping systems; Grasslands; Growth; Microbial activities; Organic farming; Soil bacteria; Soil flora; Species diversity; Temporal variation; Traditional farming

253. Functional properties and in vitro trypsin digestibility of red kidney bean (*Phaseolus vulgaris* L.) protein isolate: effect of high-pressure treatment /Yin-Shou-We. ...[*et al*.]
Food Chemistry, 2008, 110 (4), p. 938-945
Keywords: Biochemistry; Trypsin; Digestibility; Thermal stability; Surface hydrophobicity; Protein solubility; Enthalpy change; Protein denaturation; Protein unfolding;Red kidney bean

254. Host genes involved in modulation preference in common bean (*Phaseolus vulgaris*)-Rhizobium etli symbiosis revealed by suppressive subtractive hybridization/ Meschini-E-P. ...[*et al*.]
Molecular Plant Microbe Interactions, 2008, 21 (4), p. 459-468
Keywords:Complementary DNA; Cultivars; DNA hybridization; Enzymes; Genes; Isoflavones; Nodulation; Polymerase chain reaction; Phaseolus vulgaris; Kidney beans

255. How weather during development of common bean (*Phaseolus vulgaris* L.) affects the crop's maximum attainable seed quality/ Muasya-R-M. ...[*et al*.]
Netherlands Journal of Agricultural Science,2008,56 (1-2), p.85-100
Keywords: Crop development; Drought; Health; Rainfall;

Seed viability; Seed vigour; Seed yield; Temperature; Kidney beans; Phaseolus vulgaris

256. Identification and confirmation of quantitative trait loci for root rot resistance in snap bean/ Navarro-F. Sass-M-E. Nienhuis-J
Crop Science, 2008, 48 (3), p. 962-972
Keywords:Phaseolus vulgaris; Kidney beans; Roots; Disease resistance; Loci

257. IDHA chelates as a micronutrient source for green bean and tomato in fertigation and hydroponics/ Lucena-J-J. ...[*et al*.]
Agronomy Journal, 2008, 100 (3), p. 813-818
Keywords:Green bean; Micronutrient; Fertigation; Hydrophonics

258. Improvement of drought tolerance and grain yield in common bean by overexpressing trehalose-6-phosphate synthase in rhizobia/ Suarez-R ...[*et al*.]
Molecular Plant Microbe Interactions, 2008, 21 (7), p. 958-966
Keywords: Crop yield; Drought resistance; Enzyme activity; Enzymes; Gene expression; Irrigation; Metabolism; Mutants; Mutation; Nitrogenase; Kidney beans; Phaseolus vulgaris

259. Influence of irrigation frequencies and phosphate fertilization on actual evapotranspiration rate, yield and water use pattern of rajmash (*Phaseolus vulgaris* L.)/ Kundu-M. ...[*et al*.]
Agricultural Water Management, 2008, 95 (4), p. 383-390
Keywords: Application rates; Crop yield; Evapotranspiration; Irrigation; Irrigation scheduling; Phosphates; Phosphorus fertilizers; Phaseolus vulgaris; Yields; Water use

260. Influence of variety, growth location and storage conditions on development of hard-to-cook defect in common bean (*Phaseolus vulgaris* L) / Balamaze-J. ...[*et al*.]

African Journal of Food, Agriculture, Nutrition and Development, 2008, 8 (3), p. 333-348

Keywords: Calcium; Containers; Cooking quality; Crop quality; Cultivars; Fibre content; Lignin; Magnesium; Moisture content; Relative humidity; Storage quality; Temperature; Phaseolus vulgaris; Growth

261. Local response of bacterial densities and enzyme activities to elevated atmospheric CO2 and different N supply in the rhizosphere of Phaseolus vulgaris L/ Haase-S. .. [*et al*.]
Soil Biology & Biochemistry, 2008, 40 (5), p. 1225-1234
Keywords:Phaseolus vulgaris; Bacterial densities; Enzyme activity; Nitrogen; Rhizosphere

262. Molecular marker-assisted backcrossing of anthracnose resistance into Andean climbing beans (*Phaseolus vulgaris* L.)/ Garzon-L-N. Ligarreto-G-A. Blair-M-W
Crop Science, 2008, 48 (2), p. 562-570
Keywords: Backcrossing; Disease resistance; Fungal diseases; Gene expression; Genes; Genetic markers; Plant diseases; Plant pathogenic fungi; Plant pathogens; Polymerase chain reaction

263. Morphoagronomic characterization of the INIFAP core collection of the cultivated form of common bean/ Vargas-Vazquez-M-L-P. ...[*et al*.]
Agrociencia, 2008, 42 (7), p. 787-797
Keywords: Crop yield; Disease resistance; Genetic variation; Genotypes; Habitats; Plant diseases; Plant morphology; Seeds; Yield components; Kidney beans

264. Nitrogen fertilization effects on recovery of bush beans from flooding/ Reed-S-T. Gordon-G-G
International Journal of Vegetable Science, 2008, 14 (3), p. 256-272
Keywords: Chlorophyll; Flooding; Flooding tolerance; Leaf area; Leaves; Nitrogen fertilizers; Photosynthesis; Plant nutrition; Plant water relations

265. *Phaseolus vulgaris* EF-hand calcium-binding domain is induced

early in the defense response against *Colletotrichum lindemuthianum* and by abiotic stress: sequences shared between interacting partners/Alvarado-Gutierrez-A. ...[*et al*.]
Physiological and Molecular Plant Pathology, 2008, 72 (4-6), p. 111-121
Keywords: Binding proteins; Calcium; Defence mechanisms; Fungal diseases; Plant diseases; Plant pathogenic fungi; Plant pathogens; Signal transduction

266. Policies for diminishing bean (*Phaseolus vulgaris* L.) imports to Mexico: analysis by type variety/ Borja-Bravo-M. Garcia-Salazar-J-A
Agrociencia, 2008, 42 (8), p. 949-958
Keywords: Crop production; Crop yield; Domestic production; Imports; International trade; Production costs

267. Reaction of a bean germplasm collection against five races of *Colletotrichum lindemuthianum* identified in Northern Spain and implications for breeding/ Ferreira-J-J. ...[*et al*.]
Plant Disease, 2008, 92 (5), p. 705-708
Keywords: Beans; Germplasm; Colletotrichum lindemuthianum; Plant breeding

268. Response of dry bean genotypes to *Fusarium* root rot, caused by *Fusarium solani* f. sp. *phaseol*i, under field and controlled conditions/ Bilgi-V-N. ...[*et al*.]
Plant Disease, 2008, 92 (8), p. 1197-1200
Keywords: Correlation analysis; Disease resistance; Fungal diseases; Fungal spores; Genotypes; Germplasm; Inoculum; Plant diseases; Plant pathogenic fungi; Plant pathogens; Rots; Fusarium solani

269. Role of arbuscular mycorrhizal colonization in the carbon and nutrient economy of the tripartite symbiosis with nodulated *Phaseolus vulgaris*/ Mortimer-P-E. Perez-Fernandez-M-A. Valentine-A-J
Soil Biology & Biochemistry, 2008, 40 (5), p. 1019-1027
Keywords: Biomass production; Carbon; Endomycorrhizas;

Mycorrhizal fungi; Mycorrhizae; Nitrogen fixation; Photosynthesis; Plant nutrition.

270. Selection for drought resistance in common bean also improves yield in phosphorus limited and favorable environments/ Beebe-S-E. Rao-I-M. Cajiao-C
Crop Science, 2008, 48 (2), p. 582-592
Keywords:Artificial selection; Crop yield; Drought resistance; Genetic improvement; Nutrient deficiencies; Phosphorus; Plant water relations;Recurrent selection;Water stress; Kidney beans

271. Short communicatino: Rhizobium and phosphorus interaction on N-P uptake and dinitrogen fixation French bean (*Phaseolus vulgaris* L.) in an acid alfisol from north-west Himalayas/ Sharma-S. ...[*et al*.]
Journal of the Indian Society of Soil Science, 2008, 56 (1), p. 118-122
Keywords: Phaseolus vulgaris; Rhizobium; Phosphorus; Nutrient uptake; Nitrogen fixation; Alfisols

2009
PROQUEST

272. A 1H NMR study of water flow in *Phaseolus vulgaris* L. roots treated with nitrate or ammonium/ Thomas Schulze-Till ...[*et al*.]
Plant and Soil. The Hague:Jun 2009. Vol. 319, Iss. 1-2, p. 307-321
Keywords: Phaseolus vulgaris; Water purification; Root treatment; Nitrates; Ammonium

273. CeL I nuclease digestion for SNP discovery and marker development in common bean (*Phaseolus vulgaris* L.)/ Carlos H Galeano ...[*et al*.]

Crop Science. Mar/Apr 2009. Vol. 49, Iss. 2, p. 381-394
Keywords:Kidney beans; Phaseolus vulgaris; Nucleases; Digestibility

274. Combining ability analysis across environments for some traits in dry bean (*Phaseolus vulgaris* L.) under low and high soil phosphorus conditions/ J M Kimani, John Derera
Euphytica. Dordrecht:Mar 2009. Vol. 166, Iss. 1, p. 1-13
Keywords:Phaseolus vulgaris; Combining ability; Environments; Soil fertility; Combining ability

275. Marker-facilitated selection for a major QTL associated with root rot resistance in snap bean (*Phaseolus vulgaris* L.) / F M Navarro, M E Sass, J Nienhuis
Crop Science. Madison:May/Jun 2009. Vol. 49, Iss. 3, p. 850-856
Keywords: Phaseolus vulgaris; Root rots; Selection

276. Molecular analysis of a large subtelomeric nucleotide-binding-site-leucine-rich-repeat family iny representative genotypes of the major gene pools of *Phaseolus vulgaris*/ Valérie Geffroy, ...[*et al*.]
Genetics. Bethesda:Feb 2009. Vol. 181, Iss. 2, p. 405-419
Keywords: Phaseolus vulgaris; Genotypes; Molecular genetics; Gene pools

277. Paramètres agronomiques liés à la tolérance au sel chez le haricot (*Phaseolus vulgaris* L.)/Agronomical traits associated with salinity-tolerance in common bean (*Phaseolus vulgaris* L.) / Mainassara Zaman-Allah, ...[*et al*.]
Biotechnologie, Agronomie, *Société et Environnement*. Gembloux:2009. Vol. 13, Iss. 1, p. 113-119
Keywords: Phaseolus vulgaris; Salinity; Salt tolerance

278. Phosphorus runoff from a phosphorus deficient soil under common bean (*Phaseolus vulgaris* L.) and soybean (*Glycine max* L.) genotypes with contrasting root architecture/ Amelia Henry,

Peter J A Kleinman, Jonathan P Lynch
Plant and Soil. :Apr 2009. Vol. 317, Iss. 1-2, p. 1-16
Keywords: Phaseolus vulgaris; Glycine max; Genotypes; Phosphorus; Soil deficiencies; Root treatment

279. Pseudocercospora griseola causing angular leaf spot on *Phaseolus vulgaris* Produces 1,8-Dihydroxynaphthalene-Melanin/Mario C N Saparrat ...[*et al*.]
*Mycopathologi*a. Dordrecht:Jul 2009. Vol. 168, Iss. 1, p. 41-47
Keywords: Phaseolus vulgaris; Pseudocercospora griseola; Spots

280. Putative mesoamerican domestication center of *Phaseolus vulgaris* is located in the lerma-Santiago Basin of Mexico/Myounghai Kwak, James A Kami, Paul Gepts
Crop Science. Madison:Mar/Apr 2009. Vol. 49, Iss. 2, p. 554-563
Keywords:Phaseolus vulgaris; Domestication; Wild plants; Mexico

281. Susceptibility of phaseolin (*Phaseolus vulgaris*) subunits to trypsinolysis and influence of dietary level of raw phaseolin on protein digestion in the small intestine of rats/ Carlos A Montoya ...[*et al*.]
British Journal of Nutrition. Cambridge:May 14, 2009. Vol. 101, Iss. 9, p. 1324-1332
Keywords: Phaseolus vulgaris; Rats; Dietary; Globulins; Digestion; Proteins

SCIENCEDIRECT

282. Angiotensin-I converting enzyme inhibitory and antioxidant activities of protein hydrolysates from *Phaseolus lunatus* and *Phaseolus vulgaris* seeds/ Juan Torruco-Uco…[*et al*.]
LWT - Food Science and Technology, Volume 42, Issue 10, December 2009, p. 1597-1604, ISSN 0023-6438
Keywords : Phaseolus lunatus; Phaseolus vulgaris; Protein

hydrolysates; ACE-I inhibitors; Antioxidant activity

283. Arbuscular mycorrhizae affect the N and C economy of nodulated *Phaseolus vulgaris* (L.) during NH4 nutrition/ P.E. Mortimer, M.A. Perez-Fernandez, A.J. Valentine
Soil Biology and Biochemistry, Volume 41, Issue 10, October 2009, p. 2115-2121, ISSN 0038-0717
Keywords:Phaseolus vulgaris; Seedlings; Root nodulation; NH4+; Nitrogen metabolism

284. Assessing genetic variability in germplasm of *Phaseolus vulgaris L*. collected in Northern Portugal/ Rita C. Coelho…[*et al*.]
Scientia Horticulturae, Volume 122, Issue 3, 1 October 2009, p. 333-338, ISSN 0304-4238
Keywords: Common beans; Phaseolus vulgaris; Protein content; SSR; Genetic variability; Portugal

285. Cloning the PvP5CS gene from common bean (*Phaseolus vulgaris*) and its expression patterns under abiotic stresses/ Ji-Bao Chen …[*et al*.]
Journal of Plant Physiology, Volume 166, Issue 1, 1 January 2009, p. 12-19, ISSN 0176-1617
Keywords:Common beans; Phaseolus vulgaris; Proline accumulation; PvP5CS; Subcellular localization

286. Control of ascorbic acid synthesis and accumulation and glutathione by the incident light red/far red ratio in *Phaseolus vulgaris* leaves/ Carlos G. Bartoli …[*et al*.]
FEBS Letters, Volume 583, Issue 1, 5 January 2009, p. 118-122, ISSN 0014-5793
Keywords:Common beans; Phaseolus vulgaris; Phytochrome; Respiration; Light acclimation; Pyridine nucleotide; Ascorbic acid synthesis; Glutathione

287. Effect of common bean *(Phaseolus vulgaris L.)* on the community composition of ammonia-oxidizing bacteria in soil previously cultivated with *Medicago sativa*/ Pilar Junier, Margarita Caru, Karl-Paul Witzel
European Journal of Soil Biology, Volume 45, Issue 3, May-June

2009, p. 252-258, ISSN 1164-5563
Keywords:Ammonia oxidizing bacteria; Legumes rhizosphere; Phaseolus vulgaris; Nitrosospira cluster 3; Nitrosomonas cluster 8; rRNA

288. Effect of trifluoroacetate, a persistent degradation product of fluorinated hydrocarbons, on *Phaseolus vulgaris* and Zea mays/ Martin F. Smit…[*et al*.]
Plant Physiology and Biochemistry, Volume 47, Issue 7, July 2009, p. 623-634, ISSN 0981-9428
Keywords:Phaseolus vulgaris; Zea mays; Trifluoroacetate; Growth; Photosynthesis

289. Effect of various processing techniques on digestibility of starch in Red kidney bean (*Phaseolus vulgaris*) and two varieties of peas (*Pisum sativum*)/ Richard Eyaru …[*et al*.]
Food Research International, Volume 42, Issue 8, October 2009, p. 956-962, ISSN 0963-9969
Keywords: Phaseolus vulgaris; Pisum sativum; Processing; Digestibility; Resistant starch

290. Expression and interaction of the CBLs and CIPKs from immature seeds of kidney bean (*Phaseolus vulgaris* L.)/ Shigeki Hamada …[*et al*.]
Phytochemistry, Vol. 70, Issue 4, March 2009, p 501-507, ISSN 0031-9422
Keywords:Kidney beans; Phaseolus vulgaris; Leguminosae; Seeds; Calcium sensor protein; Phosphoproteins; Protein kinase; Yeasts; Hybrid proteins

291. Genetic and environmental effects on chemical composition related to sensory traits in common beans (*Phaseolus vulgaris* L.)/ Alexy Florez …[*et al*.]
Food Chemistry, Volume 113, Issue 4, 15 April 2009, p. 950-956, ISSN 0308-8146
Keywords:Chemical composition; Phaseolus vulgaris; Genetics; Environmental effects; Interaction effects; PDO

292. Genetics of intra-gene pool and inter-gene pool hybridization for seed traits in common bean (*Phaseolus vulgaris* L.) germplasm from Europe/ A.M. Gonzalez…[*et al*.]

Field Crops Research, Volume 112, Issue 1, 30 April 2009, p.s 66-76, ISSN 0378-4290,

Keywords: Phaseolus vulgaris; Large seeded alleles; Combining ability; Segregation distortion; Germplasm; Genotypes; Genetic variation

293. Genotypic and phenotypic characterization of rhizobia that nodulate snap bean (*Phaseolus vulgaris* L.) in Egyptian soils/ Khaled Elbanna, Medhat Elbadry, Hosny Gamal-Eldin
Systematic and Applied Microbiology, Volume 32, Issue 7, October 2009, p. 522-530, ISSN 0723-2020

Keywords: Genotypes; Phenotypes; Characterization; Phaseolus vulgaris; Rhizobium leguminosarum; Snap beans;Soil types; Egypt

294. Growth and evapotranspiration pattern of rajmash (*Phaseolus vulgaris* L.) under varying irrigation schedules and phosphate levels in a hot sub-humid climate/ M. Kundu, S. Sarkar
Agricultural Water Management, Volume 96, Issue 8, August 2009, p. 1268-1274, ISSN 0378-3774

Keywords: Phaseolus vulgaris; Irrigation; Phosphorus;Leaf area index; Evapotranspiration; Humid climate

295. Growth stimulation in bean (*Phaseolus vulgaris* L.) by Trichoderma/ Liliana Hoyos-Carvajal, Sergio Orduz, John Bissett
Biological Control, Volume 51, Issue 3, December 2009, p. 409-416, ISSN 1049-9644,

Keywords:Trichoderma; Species; Phaseolus vulgaris; Phosphate solubilization; Siderophores; Auxins; Endophyte; Rhizosphere

296. Heat-induced modifications in the functional and structural properties of vicilin-rich protein isolate from kidney (*Phaseolus vulgaris* L.) bean/ Chuan-He Tang, Ching-Yung Ma
Food Chemistry, Volume 115, Issue 3, 1 August 2009, p. 859-866, ISSN 0308-8146

Keywords:Kidney beans; Protein isolates; Phaseolus vulgaris; Heat treatment; Functional properties; Structural conformation; Modification; Physicochemical properties

297. Identification of Italian landraces of bean (*Phaseolus vulgaris* L.) using an image analysis system/ Gianfranco Venora …[*et al*.]
Scientia Horticulturae, Volume 121, Issue 4, 4 August 2009, p. 410-418, ISSN 0304-4238,
Keywords: Phaseolus vulgaris; Image analysis; Landraces; Identification; Traceability

298. Influence of aluminium availability on phosphate uptake in *Phaseolus vulgaris L.* and *Phaseolus lunatus L.*/ Tanja Mimmo …[*et al*.]
Plant Physiology and Biochemistry, Volume 47, Issue 1, January 2009, p. 68-72, ISSN 0981-9428
Keywords:Aluminium; Fumaric acid; Oxalic acid; Phaseolus vulgaris; Phaseolus lunatus; Phosphorus uptake; Productivity

299. Integration of edible beans (*Phaseolus vulgaris* L.) into the push-pull technology developed for stemborer and Striga control in maize-based cropping systems/ Zeyaur R. Khan …[*et al*.]
Crop Protection, Volume 28, Issue 11, November 2009, p. 997-1006, ISSN 0261-2194,
Keywords: Intercropping; Push pull; Maize; Striga; Stemborers; Economics; Farmer perceptions; Farming systems; Western Kenya

300. Physical and nutritional impact of fortification of corn starch-based extruded snacks with common bean (*Phaseolus vulgaris* L.) flour: effects of bean addition and extrusion cooking/ Alex A. Anton, R. Gary Fulcher, Susan D. Arntfield
Food Chemistry, Volume 113, Issue 4, 15 April 2009,p. 989-996, ISSN 0308-8146
Keywords:Phaseolus vulgaris; Corn starch; Extrusion; Texture; Antioxidants; Phytic acid; Trypsin inhibitors

301. Purification and characterisation of polyphenol oxidase from green bean (*Phaseolus vulgaris* L.)/ Li Guo …[*et al*.]
Food Chemistry, Volume 117, Issue 1, 1 November 2009, p. 143-151, ISSN 0308-8146,

Keywords:Green bean; Phaseolus vulgaris; Polyphenol oxidase; Enzymatic browning; Characterization

302. Shelf stability and sensory properties of flour tortillas fortified with pinto bean (*Phaseolus vulgaris* L.) flour: effects of hydrocolloid addition/ Alex A. Anton…[*et al*.]
LWT - Food Science and Technology, Volume 42, Issue 1, 2009, p. 23-29, ISSN 0023-6438
Keywords:Tortillas; Phaseolus vulgaris ; Hydrocolloids; Texture; Shelf stability; Sensory

2010
PROQUEST

303. Mulch as a potential management strategy for lesser cornstalk borer, elasmopalpus lignosellus (Insecta: lepidoptera: pyralidae), in bush bean (*Phaseolus vulgaris*) / Harsimran K Gill ...[*et al*.]
The Florida Entomologist. Lutz:Jun 2010. Vol. 93, Iss. 2, p. 183-190
Keywords: Phaseolus vulgaris; Lepidoptera; Elasmopalpus lignosellus; Mulches

SCIENCEDIRECT

304. Agronomic performance of common bean (*Phaseolus vulgaris* L.) lines in an Oxisol/ Ronald Dorcinvil, David Sotomayor-Ramirez, James Beaver
Field Crops Research, Volume 118, Issue 3, 10 September 2010, p. 264-272, ISSN 0378-4290
Keywords:Phaseolus vulgaris; Bean lines; Nutrient use efficiency; Agronomic efficiency; Soil fertility; Tropics

305. Bean (*Phaseolus vulgaris* L.) polysaccharides modulate gene expression in human colon cancer cells (HT-29)/ R. Campos-Vega …[*et al*.]
Food Research International, Volume 43, Issue 4, May 2010, p. 1057-1064, ISSN 0963-9969

Keywords:Arrays; Colon cancer; Kidney beans; Phaseolus vulgaris; Polysaccharides;

306. Dehulling and selected physical characteristics of Canadian dry bean *(Phaseolus vulgaris L.)* cultivars/ B. Dave Oomah, Stuart Ward, Parthiba Balasubramanian
Food Research International, Volume 43, Issue 5, June 2010, p. 1410-1415, ISSN 0963-9969
Keywords: Phaseolus vulgaris; Seeds; Varieties; Hull; Seed coat;Dehulling properties; Abrasive hardness index; Rate coefficients

307. Detection of novel trypsin inhibitors in the cotyledons of *Phaseolus vulgaris* seeds/ Marta Alves…[*et al*.]
Journal of Plant Physiology, Volume 167, Issue 10, 1 July 2010, p. 848-854, ISSN 0176-1617
Keywords:Alpha amylase inhibitors; Lectins; Phaseolus vulgaris;Trypsin inhibitors; Diagnosis; Organoleptic analysis

308. Diversity of seed mineral composition of *Phaseolus vulgaris* L. germplasm/ Carla Pinheiro …[*et al*.]
Journal of Food Composition and Analysis, Volume 23, Issue 4, June 2010, p. 319-325, ISSN 0889-1575
Keywords: Kidney beans; Germplasm diversity; Mineral content; Mineral correlations; Phaseolus vulgaris; Seeds; Biodiversity; Varieties; Nutrient availability; Ancient botanical variety; Food analysis; Food composition

309. Effect of cooking and sterilisation on the composition of amino acids in immature seeds of flageolet bean (*Phaseolus vulgaris* L.) cultivars/ Jacek Slupski
Food Chemistry, Volume 121, Issue 4, 15 August 2010, p. 1171-1176, ISSN 0308-8146
Keywords: Phaseolus vulgaris ; Immature bean; Varieties; Seeds; Amino acids; Cooking; Canning

310. Effect of cooking on the composition of beans (*Phaseolus vulgaris* L.) and chickpeas (*Cicer arietinum* L.)/ N. Wang …[*et*

al.]
Food Research International, Volume 43, Issue 2, Molecular, Functional and Processing Characteristics of Whole Pulses and Pulse Fractions and their Emerging Food and Nutraceutical Applications, March 2010, p. 589-594, ISSN 0963-9969
Keywords:Phaseolus vulgaris; Chickpeas; Dietary fibres; Cooking; Nutrients

311. Effect of different nitrogen sources on plant characteristics and yield of common bean (*Phaseolus vulgaris* L.)/ F. Fernandez-Luqueno …[*et al*.]
Bioresource Technology, Volume 101, Issue 1, January 2010, p. 396-403, ISSN 0960-8524,
Keywords:Kidney beans; Phaseolus vulgaris; Root nodulation; Plant response; Organic agriculture; Vermicompost; Yields; Wastewater sludge

312. Effect of organic amendments of soil on growth and productivity of three common crops viz. Zea mays, *Phaseolus vulgaris* and *Abelmoschus esculentus*/ Samiran Roy …[*et al*.]
Applied Soil Ecology, Volume 45, Issue 2, June 2010, p. 78-84, ISSN 0929-1393
Keywords:Zea mays; Phaseolus vulgaris; Abelmoschus esculentus; Biomass; Crop residues; Nutrient release; Organic amendment; Productivity; Vermicompost

313. Manganese modulates the responses of nitrogen-supplied and Rhizobium-nodulated *Phaseolus vulgaris L*. to inoculation with arbuscular mycorrhizal fungi/C. Pelaez …[*et al*.]
Soil Biology and Biochemistry, Volume 42, Issue 11, November 2010, p. 1924-1933, ISSN 0038-0717
Keywords:Phaseolus vulgaris; Chloroplasts; Chlorophyll; Ureides; Nitrates; Symbiosomes; Ferritin crystals; Ultrastructure; Tripartite symbiosis; Mycorrhizae; Rhizobium

314. Microwave-assisted extraction of phenolics from bean

(*Phaseolus vulgaris* L.)/ N. Sutivisedsak …[*et al*.]
Food Research International, Volume 43, Issue 2, Molecular, Functional and Processing Characteristics of Whole Pulses and Pulse Fractions and their Emerging Food and Nutraceutical Applications, March 2010, p. 516-519, ISSN 0963-9969
Keywords:Phaseolus vulgaris; Phenolics; Microwave; Solvent extraction

315. Multiple stress response and belowground competition in multilines of common bean (*Phaseolus vulgaris* L.)/ Amelia Henry …[*et al*.]
Field Crops Research, Volume 117, Issues 2-3, 3 June 2010, p. 209-218, ISSN 0378-4290,
Keywords:Kidney beans; Phaseolus vulgaris; Drought; Phosphorus;Multiline; Root architecture

316. Pest-damage relationships for *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) on soybean (*Glycine max*) and dry bean *(Phaseolus vulgaris)* during pod-fill/ D.J. Rogers, H.B. Brier
Crop Protection, Volume 29, Issue 1, January 2010, p. 47-57, ISSN 0261-2194
Keywords: Cotton bollworm; Economic injury level; Economic threshold; Navy beans; Kidney beans; Soybeans; Helicoverpa armigera

317. Phaseolin diversity as a possible strategy to improve the nutritional value of common beans (*Phaseolus vulgaris*)/ Carlos A. Montoya …[*et al*.]
Food Research International, Volume 43, Issue 2, Molecular, Functional and Processing Characteristics of Whole Pulses and Pulse Fractions and their *Emerging Food and Nutraceutical Applications*, March 2010, p. 443-449, ISSN 0963-9969
Keywords: Kidney beans; Phaseolus vulgaris; Globulins; Nutritional value; Sulphur amino acids

318. *Phaseolus vulgaris* seed-borne endophytic community with novel bacterial species such as *Rhizobium endophyticum sp. nov./* Aline Lopez-Lopez …[*et al*.]
Systematic and Applied Microbiology, Volume 33, Issue 6,

October 2010, p. 322-327, ISSN 0723-2020
Keywords: Phaseolus vulgaris; Varieties; RNA; Gene sequences; Legumes; Methylobacterium; Plant symbiosis; Staphylococcus; Sphingomonas

319. Physical and functional characteristics of selected dry bean (*Phaseolus vulgaris* L.) flours/ M. Siddiq …[*et al*.]
LWT - Food Science and Technology, Volume 43, Issue 2, March 2010, p. 232-237, ISSN 0023-6438
Keywords: Phaseolus vulgaris; Varieties; Flours; Emulsifying; Foaming; Functional properties; Texture

320. Proteins from common bean (*Phaseolus vulgaris*) seed as a natural coagulant for potential application in water turbidity removal/ Mirjana G. Antov, Marina B. Sciban, Nada J. Petrovic
Bioresource Technology, Volume 101, Issue 7, April 2010, p. 2167-2172, ISSN 0960-8524,
Keywords: Natural coagulant; Kidney beans; Phaseolus vulgaris; Seeds; Ion exchange; Coagulation activity; Adsorbed protein; Quality

321. Quality of spaghetti pasta containing Mexican common bean flour (*Phaseolus vulgaris* L.)/ J.A. Gallegos-Infante …[*et al*.]
Food Chemistry, Volume 119, Issue 4, 15 April 2010, p. 1544-1549, ISSN 0308-8146
Keywords: Kidney beans; Phaseolus vulgaris; Flours; Cooking; Quality; Phenolics; Furosine; Spaghetti; Pasta

322. Relationships between physicochemical properties and conformational features of succinylated and acetylated kidney bean (*Phaseolus vulgaris* L.) protein isolates/ Shou-Wei Yin …[*et al*.]
Food Research International, Volume 43, Issue 3, April 2010, p. 730-738, ISSN 0963-9969
Keywords:Kidney beans; Phaseolus vulgaris; Proteins; Acylation; Physicochemical properties;

Conformation; Functional disorders

323. Thermal aggregation and gelation of kidney bean (*Phaseolus vulgaris* L.) protein isolate at pH 2.0: Influence of ionic strength/ Ye-Hui Zhang ...[*et al*.]
Food Hydrocolloids, Volume 24, Issue 4, June 2010, Pages 266-274, ISSN 0268-005X
Keywords: Kidney beans; Phaseolus vulgaris; Protein isolates; Fibrillar gels; Thermal aggregation; Electrostatic interactions; Percolation model

324. Will nutrient-efficient genotypes mine the soil? Effects of genetic differences in root architecture in common bean (*Phaseolus vulgaris* L.) on soil phosphorus depletion in a low-input agro-ecosystem in Central America/ Amelia Henry …[*et al*.]
Field Crops Research, Volume 115, Issue 1, 4 January 2010, p. 67-78, ISSN 0378-4290,
Keywords:Kidney beans; Phaseolus vulgaris ; Genotypes; Erosion; Plant nutrition; Phosphorus; Soil fertility

2011
SCIENCEDIRECT

325. Agronomic and economic assessment of intensive pest management of dry bean (*Phaseolus vulgaris*)/ Gerard M. Pynenburg …[*et al*.]
Crop Protection, In Press, Corrected Proof, Available online 12 January 2011, ISSN 0261-2194
Keywords: Anthracnose; Colletotrichum lindemuthianum; Azoxystrobin; Economics Fludioxonil; Imazethepyr; Metalaxyl-M; Dry beans; Phaseolus vulgaris; Thiamethoxam; Trifluralin; Weeds

326. Apoptosis of human breast cancer cells induced by hemagglutinin from *Phaseolus vulgaris* cv. Legumi secchi/ Sze Kwan Lam, Tzi Bun Ng
Food Chemistry, Volume 126, Issue 2, 15 May 2011, p. 595-602, ISSN 0308-8146
Keywords:Phaseolus vulgaris ; Legumi secchi; Hemagglutinin; Anti tumor; Apoptosis; MCF-7 breast cancer cells

327. Comparative study of the composition and thermal properties of protein isolates prepared from nine *Phaseolus vulgaris* legume varieties/ Xin Rui …[*et al*.]
Food Research International, In Press, Accepted Manuscript, Available online 13 January 2011, ISSN 0963-9969
Keywords:Phaseolus vulgaris; Protein isolates; Electrophoresis; RP-HPLC; DSC; FTIR

328. Conidiogenic effects of mannose-binding lectins isolated from cotyledons of red kidney bean (*Phaseolus vulgaris*) on Alternaria alternate/ Hossein Alizadeh …[*et al*.]
Phytochemistry, Volume 72, Issue 1, January 2011, p. 94-99, ISSN 0031-9422
Keywords: Red kidney bean; Phaseolus vulgaris; Brown spot; Conidiation; Lectins; PvFRIL; Sporulation

329. Conversion of starch from dry common beans (*Phaseolus vulgaris* L.) to ethanol/ Nancy N. Nichols …[*et al*.]
Industrial Crops and Products, In Press, Corrected Proof, Available online 17 January 2011, ISSN 0926-6690
Keywords:Ethanol; Starch; Common beans; Phaseolus vulgaris; Dry beans; Phytochemicals; Varieties

330. Critical period for weed competition in French bean (*Phaseolus vulgaris* L.) in Mediterranean areas/ Fabio Stagnari, Michele Pisante
Crop Protection, Volume 30, Issue 2, February 2011, p. 179-184, ISSN 0261-2194
Keywords: French beans; Phaseolus vulgaris; Competition; Weeds

331. Screening for heat tolerance in common bean (*Phaseolus vulgaris* L.) lines and cultivars using JIP-test/ Detelin Stefanov, Valentina Petkova, Iliya D. Denev
Scientia Horticulturae, In Press, Corrected Proof, Available online 11 January 2011, ISSN 0304-4238
Keywords: Kidney beans; Phaseolus vulgaris; Chlorophyll fluorescence; Heat tolerance; High temperature; JIP test

KACANG KAYU LAUT

2006
TEEAL

332. Effect of long term feeding of expeller pressed and solvent extracted karanj (*Pongamia pinnata*) seed cake on the performance of lambs/ Singh-P. ...[*et al*.]
Animal Feed Science and Technology, 2006, 126 (1-2), p. 157-167
Keywords: Egg fertility; Egg hatchability; Egg production; Feed supplements; Female fertility

333. Optimization of alkali-catalyzed transesterification of *Pongamia pinnata* oil for production of biodiesel / Meher-L-C. Dharmagadda-V-S-S. Naik-S-N
Bioresource Technology, 2006, 97 (12), p. 1392-1397
Keywords: Biodiesel; Fatty acids; Methanol; Plant oils; Temperature

334. Pongamone A-E, five flavonoids from the stems of a mangrove plant, *Pongamia pinnata* / Li-Liya. ...[*et al*.]
Phytochemistry, 2006, 67 (13), p. 1347-1352
Keywords: Chemical composition; Chemical structure; Flavonoids; Forests; Mangrove forests; Mangroves; Plant composition

335. Quantification of karanjin, tannin and trypsin inhibitors in raw and detoxified expeller and solvent extracted karanj (*Pongamia glabra*) cake/ Panda-A-K …[*et al*.]
Asian-Australasian Journal of Animal Sciences, 2006, 19 (12), p. 1776-1783
Keywords: Acid treatment; Alkali treatment; Calcium hydroxide; Chemical composition; Chemical treatment

KACANG MERAH

2006
PROQUEST

336. Accumulation of an aromatic amine, [beta]-phenethylamine, in root nodules of adzuki bean *Vigna angularis*/ Shinsuke Fujihara, Junko Terakado, Naoyoshi Nishibori
Plant and Soil, The Hague:Feb 2006. Vol. 280, Iss. 1-2, p. 229-237
Keywords:Adzuki beans; Vigna angularis; Root nodules; Aromatic amine

337. Effect of heat treatment on developmental stages of *Callosobruchus maculatus* (Coleoptera: Bruchidae) in stored adzuki bean *Vigna angularis*/ C Mekasha, O Dzolkifli, S Yusuf, M Rita

International Journal of Tropical Insect Science. Cambridge:Dec 2006. Vol. 26, Iss. 4, p. 273-279
Keywords:Adzuki beans; Vigna angularis; Heat treatment; Plant developmental stages; Callosobruchus maculatus

KACANG POLONG

2006
TEEAL

338. Comparing responses to phosphorus of field pea (*Pisum sativum*), canola (rape, *Brassica napus*) and spring wheat (*Triticum aestivum*)/ Bolland-M-D-A. Brennan-R-F. White-P-
Australian Journal of Experimental Agriculture, 2006, 46 (5),p. 645-657
Keywords: Crop yield; Nutrient content; Nutrient requirements; Peas; Phosphorus; Plant nutrition; Wheats

339. Genetic variation in stem strength in field pea (*Pisum sativum* L.) and its association with compressed stem thickness/ Beeck-C-P., Wroth-J., Cowling-WA.
Australian Journal of Agricultural Research, 2006, 57 (2), p. 193-199
Keywords: Pisum sativum; **Disease resistance; Fungal diseases; Genetic grain; Genetic variation; Genotypes; Lignin; Peas; Plant diseases; Plant pathogenic fungi; Plant pathogens**

340. Inheritance of enlarged leaf mutations in pea (*Pisum sativum* L.)/ Naidenova-N. Vassilevska-Ivanova-R
Journal of Genetics & Breeding, 2006, 60 (1), p. 53-58
Keywords:Induced mutation; Inheritance; Leaf mutants; Pisum sativum

341. Very-long-chain secondary alcohols and alkanediols in cuticular waxes of *Pisum sativum* leaves / Wen-Miao. Au-J. Gniwotta-F. Jetter-R
Phytochemistry, 2006, 67 (22), p. 2494-2502
Keywords: Pisum sativum; **Alcohols; Chemical composition; Leaves; Peas; Plant composition; Waxes**

2007
TEEAL

342. Construction and characterization of two bacterial artificial chromosome libraries of pea (*Pisum sativum* L.) for the isolationof economically important genes / Coyne C.J.…[*et al*.]
Genome, 2007, 50 (9), p. 871-875
Keywords: Chromosome morphology; Chromosomes; Disease resistance; Gene expression; Genes; Genetic analysis; Genome analysis; Genomes; Peas; Pisum sativum

343. Differences in chemical composition of field pea (*Pisum sativum*) cultivars: effects of cultivation area and year/ Nikolopoulou D. …[*et al*.]
Food Chemistry, 2007, 103 (3), p. 847-852
Keywords: Chemical composition; Cultivars; Peas; Phytic acid; Plant composition; Polysaccharides; Seeds; Starch; Sucrose; Tannins; Pisum sativum

344. Epidemiology and management of bacterial blight (*Pseudomonas syringae* pv. pisi) of field pea (*Pisum sativum*) in Australia: a review/ Hollaway G.J; Bretag T.W; Price T.V
Australian Journal of Agricultural Research, 2007, 58 (11), p. 1086-1099
Keywords: Bactericides; Chemical control; Epidemiology; Genetic resistance; Integrated control; Pesticides; Plant disease control; Plant genetic resources; Plant pathogenic bacteria; Pisum sativum; Pseudomonas syringae

2008
TEEAL

345. Additive genetic variance for stem strength in field pea (*Pisum sativum*)/ Beeck-C-P. Wroth-J. Cowling-W-A
Australian Journal of Agricultural Research, 2008, 59 (1), p. 80-85
Keywords: Pisum sativum; Genetic variation; Stems; Strength

346. Genetic analysis of pod and seed resistance to pea weevil in a *Pisum sativum* x *P. fulvum* interspecific cross/ Byrne-O-M ...[*et al*.]
Australian Journal of Agricultural Research, 2008, 59 (9), p. 854-862
Keywords: Pisum sativum; Pisum fulvum; Genetic analysis; Seeds; Fruits; Hybridization

KACANG ROAY

2006
TEEAL

347. *Agrobacterium rhizogenes* transformation of the *Phaseolus* spp.: a tool for functional genomics/ Estrada-Navarrete-G. ...[*et al*.]
Molecular Plant Microbe Interactions, 2006, 19 (12), p. 1385-139
Keywords: Cultivars; Genetic engineering; Genetic transformation; Landraces; Lima beans; Nitrogen fixation

348. Dynamic pathway allocation in early terpenoid biosynthesis of stress-induced lima bean leave/ Bartram-S. …[*et al*.]
Phytochemistry, 2006, 67 (15), p. 1661-1672
Keywords: Biochemical pathways; Biosynthesis; Fungal elicitors; Isoprenoids; Leaves; Lima beans; Terpenoids

349. Patterns of interaction between isolates of three pathovars of *Pseudomonas syringae* and accessions of a range of host and

nonhost legume species/ Hunter-P-J. Taylor-J-
Plant Pathology, 2006, 55 (1), p. 46-53
Keywords: Cultivars; Gene interaction; Genetic models; Plant pathogenic bacteria; Plant pathogens; Soybeans; Pseudomonas syringae

350. Structure and genetic diversity of wild populations of lima bean (*Phaseolus lunatus* L.) from the Yucatan Peninsula, Mexico/ Martinez-Castillo-J ...[*et al*.]
Crop Science, 2006, 46 (3), p. 1071-1080
Keywords: **Genetic diversity; Microbial ecology; Nitrogen fixation; Nitrogen fixing bacteria; Population density; Phaseolus lunatus**

351. Taxonomy of tepary bean and wild relatives as determined by amplified fragment length polymorphism (AFLP) markers/ Munoz-L-C. …[*et al*.]
Crop Science, 2006, 46 (4), p. 1744-1754
Keywords: Genes; Genetic diversity; Genetic markers; Genetic variation; Lima beans; Papilionoideae; Fabaceae; AFLP

2007
TEEAL

352. Gene flow and genetic structure in the wild-weedy-domesticated complex of *Phaseolus lunatus* L. in its Mesoamerican center of domestication and diversity/ Martinez Castillo J. …[*et al*.]
Crop Science, 2007, 47 (1), p. 58-66
Keywords:Alleles; Centres of origin; Gene flow; Genes; Genetic diversity; Lima beans; Phaseolus lunatus; Microsatellites; Wild relatives

353. Lima bean downy mildew: impact, etiology, and management strategies for Delaware and the mid-Atlantic region, US/ Evans-T-A. …[*et al*.]
Plant Disease, 2007, 91 (2), p. 128-135
Keywords:Distribution; Fungal diseases; Host range; Lima beans; Physiological races; Plant disease control;

Plant diseases; Plant pathogenic fungi; Plant pathogens

2008
TEEAL

354. Assessment of critical soil water potential for emergence of wheat, chickpea and linseed seedlings in relation to water stress in a vertisol/ Bandyopadhyay-K-K. ...[*et al*.]
Journal of the Indian Society of Soil Science, 2008, 56 (3), p. 267-275
Keywords: Chickpeas; Wheats; Seedlings; Drought stress; Vertisols

355. Comparative susceptibilities of legume species to infection by *Phakopsora pachyrhizi*/ Bonde-M-R. ...[*et al*.]
Plant Disease, 2008, 92 (1), p. 30-36
Keywords: Phakopsora pachyrhizi; Legumes; Species; Disinfection

356. Further studies on pea seed-borne mosaic virus in cool-season crop legumes: responses to infection and seed quality defects/ Coutts-B-A. Prince-R-T. Jones-R-A-C
Australian Journal of Agricultural Research, 2008, 59 (12), p. 1130-1145
Keywords: Legumes; Peas; Infection; Plant viruses; Seeds; Quality

357. Identifying chickpea homoclimes using the APSIM chickpea model/ Chauhan-Y. Wright-G. Nageswararao-Rachaputi.
Australian Journal of Agricultural Research, 2008, 59 (3), p. 260-269
Keywords: Chickpeas; Identification; APSIM

358. Infection by *Meloidogyne artiellia* does not break down resistance to races 0, 1A, and 2 of *Fusarium oxysporum* f. sp. ciceris in chickpea genotypes /Navas-Cortes-J-A. Landa-B-B. Rodriguez-Lopez-J.
Phytopathology, 2008, 98 (6), p. 709-718

Keywords: Chickpeas; Genotypes; Meloidogyne; Fusarium oxysporum; Disinfection

359. Lima bean downy mildew epiphytotics caused by new physiological races of *Phytophthora phaseoli*/Davidson-C-R. ...[*et al*.]
Plant Disease, 2008, 92 (5), p. 670-674
Keywords: Lima beans; Mildews; Physiological races; Phytopthora

360. Molecular genetic diversity and linked resistance to ascochyta blight in Australian chickpea breeding materials and their wild relatives/ Imtiaz-M. ...[*et al*.]
Australian Journal of Agricultural Research, 2008, 59 (6), p. 554-560
Keywords: Chickpeas; Genetic resources; Biodiversity; Ascochyta

361. Novel disease affecting the predatory mite *Phytoseiulus persimilis (Acari, Phytoseiidae):* evidence for the involvement of bacteria / Schutte-C. Poitevin-O. Dicke-M
Biocontrol Science and Technology, 2008, 18 (1-2), p. 1-19
Keywords: Phytoseiulus persimilis; Predators; Mites

362. Resistance to *Phytophthora medicaginis* Hansen and Maxwell in wild Cicer species and its use in breeding root rot resistant chickpea (*Cicer arietinum* L.)/ Knights-E-J. Southwell-R-J. Schwinghamer-M-W
Australian Journal ofAgricultural Research, 2008, 59 (4), p. 383-387
Keywords:Chickpeas; Phytopthora medicaginis; Cicer arietinum; Species; Root rots; Disease resistance

KACANG TUNGGAK

2006

PROQUEST

363. Assessment of cowpea and groundnut contributions to soil fertility and succeeding sorghum yields in the Guinean savannah zone of Burkina Faso (West Africa)/ B V Bado, A Bationo, M P Cescas
Biology and Fertility of Soils. Berlin:Dec 2006. Vol. 43, Iss.2, p. 171-176
Keywords: Vigna unguiculata; Cowpeas; Groundnuts; Arachis hypogaea; Soil fertility; Sorghum;Yields

364. Biocontrol agents in combination with *Moringa oleifera* extract for integrated control of Sclerotium-caused cowpea damping-off and stem rot/ A Adandonon ...[*et al*.]
European Journal of Plant Pathology. Dordrecht:Aug 2006. Vol. 115, Iss. 4, p. 409-418
Keywords: Cowpeas; Vigna unguiculata; Moringa oleifera; Plant extracts; Biological control agents; Integrated control; Sclerotium; Damping off; Stem rot

365. Cotton-cowpea intercropping and its N2 fixation capacity improves yield of subsequent maize crop under Zimbabwean rain-fed conditions/ L Rusinamhodzi, H K Murwira, J Nyamangara
Plant and Soil. The Hague:Sep 2006. Vol. 287, Iss. 1-2, p. 327-336
Keyword: Cowpeas; Vigna unguiculata; Cotton; Gossypium hirsutum; Intercropping; Maize; Nitrogen fixation; Yields; Rainfed condition

366. Deterrent activity of plant lectins on cowpea weevil *Callosobruchus maculatus* (F.) oviposition / Sadeghi-A. ...[*et al*.]
Phytochemistry, 2006, volume 67, Issue 18, p. 2078-2084
Keywords: Callosobruchus maculatus; Cowpea weevil; Oviposition; Lectins

367. Effect of Cu toxicity on growth of cowpea (*Vigna unguiculata*)/ Peter M Kopittke, Neal W Menzies
Plant and Soil. The Hague:Jan 2006. Vol. 279, Iss. 1-2, p. 287-296
Keywords:Cowpeas; Vigna unguiculata; Copper; Toxicity; Growth

368. Effects of intercropping tomato (*Lycopersicon esculentum*) at

different times with cowpea (*Vigna unguiculata*) or okra (*Abelmoschus esculentus*) on crop damage by major insect pests/ Olufemi O R Pitan, G O Olatunde.
Journal of Agricultural Science. Cambridge:Aug 2006. Vol. 144, Part 4 p. 361-368
Keywords: Tomatoes; Lycopersicon esculentum; Cowpeas; Vigna unguiculata; Okras; Abelmoschus esculentus; Intercropping; Crop damage; Insect pests

369. Genetic transformation of cowpea (*Vigna unguiculata* L.) and stable transmission of the transgenes to progeny/ J Carlos Popelka ...[*et al*.]
Plant Cell Reports. Berlin:Apr 2006. Vol. 25, Iss. 4, p. 304-312
Keywords:Cowpeas;Vigna unguiculata; Genetic transformation; Stable transmission; Progeny

370. Histological studies of damage by pod-sucking bugs (Heteroptera: Coreoidea) associated with cowpea *Vigna unguiculata* ssp. *unguiculata* in Nigeria/ OL Soyelu, AE Akingbohungbe
Bulletin of Entomological Research. Cambridge:Aug 2006. Vol. 96, Iss. 4, p. 439-444
Keywords: Cowpeas; Vigna unguiculata; Plant histology; Pod sucking bugs; Crop damage; Nigeria

371. Localization and responsiveness of a cowpea apyrase VsNTPase1 phytopathogenic microorganisms/ Hirotaka Takahashi ...[*et al*.]
Journal of General Plant Pathology : JGPP. Tokyo:Jun 2006. Vol. 72, Iss. 3, p. 143-151
Keywords: Cowpeas; Vigna unguiculata; Phytopathogenic microorganisms

372. Mineral nutrient uptake and removal by cowpea, soybean and maize cultivars in West Africa, and implications for carbon cycle effects on soil acidification/ P J Randall …[*et al*.]
Experimental Agriculture. Cambridge:Oct 2006. Vol.42, Iss.4, p. 475-494
Keywords: Cowpeas; Soybeans; Maize; Cultivars; Nutrient uptake; Carbon cycle; Soil acidification

373. Phytotoxic effects of fumonisin B1 on cowpea seed/ Q Kritzinger, T A S Aveling, C F van der Merwe.
Phytoparasitica.:Apr 2006. Vol. 34, Iss. 2, p. 178-186
Keywords:Cowpeas; Seeds; Phytotoxic effects; Fumonisin B1

374. Plant-available P for maize and cowpea in P-deficient soils from the Nigerian northern guinea savanna - comparison of e- and l-values/ Pieter Pypers ...[*et al*.]
Plant and Soil. The Hague:May 2006. Vol. 283, Iss. 1-2, p. 251-264
Keywords: Cowpeas; Maize; Phosphorus; Nutrient availability; Nutrient deficiencies; Nigeria

375. Registration of 'NGVU-05-25' cowpea cultivar/ B B Singh ...[*et al*.]
Crop Science. Madison:Nov/Dec 2006. Vol. 46, Iss. 6, p. 2708-2709
Keywords: Cowpeas; Cultivars

376. Registration of six improved germplasm lines of cowpea with combined resistance to *Striga gesnerioides* and *Alectra vogelii*/ B B Singh ...[*et al*.]
Crop Science. :Sep/Oct 2006. Vol. 46, Iss. 5, p. 2332-2333
Keywords: Cowpeas; Germplasm; Striga gesnerioides; Alectra vogelii; Disease resistance

377. Relationship between primary metabolites in reproductive structures of cowpea *Vigna unguiculata* (Fabaceae: Papilionidae) cultivars and field resistance to the flower bud thrips *Megalurothrips sjostedti* (Thysanoptera: Thripidae)/ OY Alabi, JA Odebiyi, M Tamò
International Journal of Tropical Insect Science. Cambridge:Mar 2006. Vol. 26, Iss. 1, p. 8-15
Keywords:Cowpeas; Vigna unguiculata; Metabolites; Reproductive structure; Flower bud trips; Megalurothrips sjostedti; Pest resistance

378. Role of hydrogen peroxide-producing and hydrogen peroxide-consuming peroxidases in the leaf apoplast of cowpea in manganese tolerance1[W]/ Marion Maria ...[*et al*.]
Plant Physiology. Rockville:Apr 2006. Vol. 140, Iss. 4, p. 1451-

63
Keywords: Cowpeas; Hydrogen peroxide; Peroxidases; Manganese tolerance

SCIENCE DIRECT

379. Effect of seaweed extracts on the growth and biochemical constituents of *Vigna sinensis*/ S. Sivasankari, V. …[*et al*.]
Bioresource Technology, Volume 97, Issue 14, September 2006, p. 1745-1751, ISSN 0960-8524
Keywords: Seaweed liquid fertilizer; Biofertilizers; Vigna sinensis; Sargassum wightii; Caulerpa chemnitzia

TEEAL

380. Botanical pesticide mixtures for insect pest management on cowpea, *Vigna unguiculata* (L.) walp plants - the legume flower bud thrips, Megalurothrips sjostedti Trybom/ Opar'ke-A-M. Dike-M-C. Amatobi-C-I
Journal of Sustainable Agriculture, 2006, 29 (1), p. 5-13
Keywords: Botanical pesticides; Cowpeas; Insect control; Insect pests; Leaves; Pest control; Plant extracts; Plant pests

381. Changes in soil biological and biochemical characteristics in a long-term field trial on a sub-tropical inceptisol/ Masto-R-E. …[*et al*.]
Soil Biology & Biochemistry, 2006, 38 (7), p. 1577-1582
Keywords: Application rates; Biological activity in soil; Cowpeas; Enzyme activity; Farmyard manure; Inceptisols; Long term experiments

382. Competition and growth of six cowpea (*Vigna unguiculata*) genotypes, sunflower (*Helianthus annuus*), and common purslane (*Portulaca oleracea*) / Wang-G-Y. McGiffen-M-E-Jr. Ehlers-J-D
Weed Science, 2006, 54 (5), p. 954-960

Keywords: Biological competition; Cowpeas; Vigna unguiculata; Crop weed competition; Genotypes; Growth rate; Weeds; Helianthus annuus; Portulaca oleracea

383. Effect of gamma -irradiation on some physicochemical and thermal properties of cowpea (*Vigna unguiculata* L. Walp) starch/ Abu-J-O. Duodu-K-G. Minnaar-A
Food Chemistry, 2006, 95 (3), p. 386-393
Keywords:Gamma irradiation; Foods; Food safety; Chemicophysical properties; Thermal properties; Cowpeas; Vigna unguiculata; Starch

384. Field activity of three mixture levels of plant extract formulations for the management of post-flowering insect pests of cowpea, *Vigna unguiculata* (L.) Walp- the flower thrips, *Megalurothrips sjostedti* (Trybom)/ Opar'ke-A-M. Dike-M-C. Amatobi-C-I
Journal of Sustainable Agriculture, 2006, 28 (4), p. 45-54
Keywords: Cloves; Cowpeas; Cultural control; Insect control; Insect pests; Insecticidal plants; Insecticidal properties; Plant extracts;Plant pests; Vigna unguiculata; Megalurothrips sjostedti

385. First report of the natural occurrence of Tobacco streak virus on blackgram (*Vigna mungo*)/ Ladhalakshmi-D. …[*et al*.]
Plant Pathology, 2006, 55 (4), p. 569-575
Keywords: Cowpeas; Black gram; Vigna mungo; Mechanical transmission; Disease occurrence; Plant diseases; Plant pathogens; Plant viruses; Tobacco

386. Gamma irradiation of cowpea (*Vigna unguiculata* L. Walp) flours and pastes: effects on functional, thermal and molecular properties of isolated proteins / Abu-J-O. Muller-K. Duodu-K-G. Minnaar-A
Food Chemistry, 2006, 95 (1), p. 138-147
Keywords: Cowpeas; Flours; Functional properties; Irradiation; Nitrogen; Proteins; Thermal properties

387. Histological studies of damage by pod-sucking bugs (*Heteroptera*: *Coreoidea*) associated with cowpea *Vigna unguiculata* ssp. *unguiculata* in Nigeria/ Soyelu-O-L. Akingbohungbe-A-E
Bulletin of Entomological Research, 2006, 96 (4), p. 439-444
Keywords: Cowpeas; Crop damage; Histology; Insect pests; Plant pests; Anoplocnemis; Coreoidae; Heteroptera

388. Larval parasitoids occurring on *Maruca vitrata* Fabricius (*Lepidoptera*: *Pyralidae*) in Benin, West Africa/ Arodokoun-D-Y. …[*et al*.]
Agriculture, Ecosystems & Environment, 2006, 113 (1-4), p. 320-325
Keywords: Biological control agents; Cowpeas; Insect pests; Parasitoids; Maruca vitrata; Pests of plants; Population structure; Species richness

389. Management of a previously eroded tropical Alfisol with herbaceous legumes: soil loss and physical properties under mound tillage/ Salako-F-K. Kirchhof-G. Tian-G.
Soil & Tillage Research, 2006, 89 (2), p. 185-195
Keywords: Cover crops; Cowpeas; Crop residues; Eroded soils; Erosion control; Intercropping; Legumes; Soil losses

390. Microbial biomass turnover in Indian subtropical soils under different sugarcane intercropping systems/Archna-Suman. …[*et al*.]
Agronomy Journal, 2006, 98 (3), p. 698-704
Keywords: Cowpeas; Cropping systems; Intercropping; Lentils; Maize; Microbial activities; Mineralization; Nitrogen; Plant nutrition

391. Nutritional value of cowpea (*Vigna unguiculata* L. Walp) meals as ingredients in diets for Pacific white shrimp (*Litopenaeus vannamei Boone*) / Rivas-Vega-M-E. ...[*et al*.]
Food Chemistry, 2006, 97 (1), p. 41-49
Keywords: **Carbohydrates; Chemical composition; Cowpea**

meal; Cowpeas; Crude protein; Diet; Digestibility; Dry matter ; Germination

392. Organic manures for increased productivity and sustained supply of micronutrients Zn and Cu in a rice-wheat cropping system/ Mishra-B-N…[*et al*.]
Journal of Sustainable Agriculture, 2006, 28 (1), p. 55-66
Keywords: Cowpeas; Crop production; Crop yield; Farmyard manure; Nutrient uptake; Nutrients; Plant nutrition; Productivity

393. Patterns of interaction between isolates of three pathovars of *Pseudomonas syringae* and accessions of a range of host and nonhost legume species/ Hunter-P-J. Taylor-J-D
Plant Pathology, 2006, 55 (1), p. 46-53
Keywords: Cowpeas; Cultivars; Gene interaction; Genes; Genetic models; Lentils; Peas; Plant pathogenic bacteria; Plant pathogens; Soybeans

394. Phenetic relationships among different races of *Striga gesnerioides* (Willd.) Vatke from West Africa / Botanga-Christopher-J. Timko-Michael-P
Genome, 2006, 49 (11), p. 1351-1365
Keywords: Biogeography; Population studies; Parasitology; Horticulture; Striga gesnerioides

395. Phosphate rock biofertiliser with *Acidithiobacillus* and *rhizobia* improves nodulation and yield of cowpea (*Vigna unguiculata*) in greenhouse and field conditions/ Stamford-N-P. Santos-C-E-R-S. Dias-S-H-L
Tropical Grasslands, 2006, 40 (4), p. 222-230
Keywords: Vigna unguiculata; Cowpeas; Rock phosphate; Biofertilizers; Acidithiobacillus; Rhizobium; Nodulation; Yields

396. Role of the antennae and maxillary palps in mediating food preference by larvae of the tobacco hornworm,*Manduca sexta*/ Boer-Gde ...[*et al*.]
Entomologia Experimentalis et Applicata, 2006, 119 (1), p. 29-38

Keywords: Cowpeas; Host preferences; Host specificity; Insect pests; Plant pests; Manduca sexta; Food preferences

397. Use of micro-CAT scans to understand cowpea seed resistance to *Callosobruchus maculatus* / Tarver-M-R. ...[*et al*.]
Entomologia Experimentalis et Applicata, 2006, 118 (1), p. 33-39
Keywords: Analytical methods; Cotyledons; Cowpeas; Insect pests; Mortality; Pest resistance; Seeds; Stored products pests; Callosobruchus maculates

398. Variation in the nod gene RFLPs, nucleotide sequences of 16S rRNA genes, Nod factors, and nodulation abilities of *Bradyrhizobium* strains isolated from Thai Vigna plants/Yokoyama-T. ...[*et al*.]
Canadian Journal of Microbiology, 2006, 52 (1), p. 31-46
Keywords: Cowpeas; Genetic diversity; Genetic variation; Mung beans; Nitrogen fixation; Nitrogen fixing bacteria; Nodulation; **RFLP**

2007
PROQUEST

399. Comparative assessment of feeding damage by pod-sucking bugs (Heteroptera: Coreoidea) associated with cowpea, *Vigna unguiculata* ssp. *unguiculata* in Nigeria/ OL Soyelu, AE Akingbohungbe
Bulletin of Entomological Research. Cambridge:Feb 2007. Vol. 97, Iss. 1, p. 1-7
Keywords: Vigna unguiculata; Cowpeas; Feeding damage; Heteroptera; Fruit damaging insects

400. Genetic diversity and phylogeny of indigenous rhizobia from cowpea [*Vigna unguiculata* (L.) Walp.]/ Tao Zhang ...[*et al*.]
Biology and Fertility of Soils. Berlin:Oct 2007. Vol. 44, Iss. 1,

p. 201-210
Keywords: Vigna unguiculata; Cowpeas; Genetic diversity; Phytogeny; Indigenous rhizobia

401. Genotype × environment interaction and yield stability in a cowpea-based cropping system/ Francis Kwame Padi.
Euphytica. Dordrecht:Nov 2007.Vol. 158, Iss. 1-2, p. 11-25
Keywords: Cowpeas; Cropping systems; Genotypes; Environment interaction; Yield stability

402. Integrated pest management for cowpea-cereal cropping systems in the West African savannah/ T Adati ...[*et al*.]
International Journal of Tropical Insect Science. Cambridge:Dec 2007.
Vol. 27, Iss. 3-4, p. 123-137
Keywords: Cowpeas; Cereals; Cropping systems; Integrated pest management; West Africa

403. Proteome analysis of embryogenic cell suspensions of cowpea (*Vigna unguiculata*)/ F C S Nogueira ...[*et al*.]
Plant Cell Reports. :Aug 2007. Vol. 26, Iss. 8, p. 1333-1343
Keywords: Vigna unguiculata; Cowpeas; Proteome analysis; Embryogenetic cell

404. Salivary glands and their digestive enzymes in pod-sucking bugs (Hemiptera: Coreoidea) associated with cowpea *Vigna unguiculata* ssp. *unguiculata* in Nigeria/ O L Soyelu, A E Akingbohungbe, R E Okonji.
International Journal of Tropical Insect Science. Cambridge:Mar 2007. Vol. 27, Iss. 1, p. 40-47
Keywords: Vigna unguiculata; Cowpeas; Fruit damaging insects; Salivary glands; Digestive enzymes; Nigeria

405. Short-term fates of carbon-13-depleted cowpea shoots in no-till and standard tillage soils/ H Minoshima …[*et al*.]
Soil Science Society of America Journal. Madison:Nov/Dec 2007. Vol. 71, Iss. 6, p. 1859-1866
Keywords: Cowpeas; Soil tillage; Shoots; Carbon

406. Symbiotic and genomic diversity of 'cowpea' bradyrhizobia

from soils in Botswana and South Africa/ Ian J Law ...[*et al*.]. *Biology and Fertility of Soils*. Berlin:Aug 2007. Vol. 43, Iss. 6, p. 653-663
Keywords:Cowpeas; Genomic diversity; Bradyrhizobium; South Africa

407. Toxic effects of Ni^{2+} on growth of cowpea (*Vigna unguiculata*)/ Peter Martin Kopittke, Colin J Asher, Neal W Menzies
Plant and Soil. The Hague:Mar 2007. Vol. 292, Iss. 1-2, p. 283-289
Keywords:Vigna unguiculata; Cowpeas; Toxic; Nickel; Growth

SCIENCEDIRECT

408. Changes in vitamin C content and antioxidant capacity of raw and germinated cowpea (*Vigna sinensis* var. carilla) seeds induced by high pressure treatment/ Rosa Doblado, Juana Frias, Concepcion Vidal-Valverde
Food Chemistry, Volume 101, Issue 3, 2007, p. 918-923, ISSN 0308-8146
Keywords: Cowpeas; Vigna sinensis; Germination; High pressure; Vitamin C; Antioxidant capacity

409. Physical properties of cowpea (*Vigna sinensis* L.) seed/ Ibrahim Yalcin
Journal of Food Engineering, Volume 79, Issue 1, March 2007, p. 57-62, ISSN 0260-8774
Keywords: Cowpeas; Seeds; Chemicophysical properties; Moisture content; Vigna sinensis

410. Some physical and nutritional properties of cowpea seed (*Vigna sinensis* L.)*/* Onder Kabas …[*et al*.]
Journal of Food Engineering, Volume 79, Issue 4, April 2007,

p. 1405-1409, ISSN 0260-8774
Keywords:Cowpeas; Seeds; Vigna sinensis; Chemicophysical properties; Nutritional properties

TEEAL

411. Antioxidant and free radical scavenging activities of processed cowpea (*Vigna unguiculata* (L.) Walp.) seed extracts/ Perumal Siddhuraju; Becker K
Food Chemistry, 2007, 101 (1), p. 10-19
Keywords: Antioxidant properties; Chemical composition; Cowpeas; Food supplements; Free radicals; Linoleic acid; Phenolic compounds

412. Assessment of different legumes for the control of *Striga hermonthica* in maize and sorghum/ Khan Z.R. ...[*et al*.]
Crop Science, 2007, 47 (2), p. 730-736
Keywords: Cowpeas; Crop yield; Cultural control; Green gram; Intercropping; Intercrops; Parasitic weeds; Weed control; Weeds

413. Comparative assessment of feeding damage by pod-sucking bugs (*Heteroptera*: Coreoidea) associated with cowpea, *Vigna unguiculata* ssp. *unguiculata* in Nigeria/ Soyelu O.L; Akingbohungbe A.E
Bulletin of Entomological Research, 2007, 97 (1), p. 1-7
Keywords: Cowpeas; Crop damage; Crop yield; Insect pests; Nymphs; Plant pests; Pods; Yield losses

414. Field activity of three mixture levels of plant extract formulations for the management of post-flowering insect pests of cowpea, *Vigna unguiculata* (L.) Walp- the flower thrips, *Megalurothrips sjostedti* (Trybom)/Opar'ke A.M; Dike M.C; Amatobi C.I
Journal of Sustainable Agriculture, 2006, 28 (4), p. 45-54
Keywords: Cloves; Cowpeas; Cultural control; Insect control; Insect pests; Insecticidal plants; Insecticidal properties; Insecticides

415. Improved cowpea-cereals-based cropping systems for household

food security and poverty reduction in West Africa/ Singh B.B; Ajeigbe H
Journal of Crop Improvement, 2007, 19 (1-2), p. 157-172
Keywords: Cereals; Cowpeas; Food security; Intercropping; Poverty; Strip cropping

416. Leaf harvesting initiation time and frequency affect biomass partitioning and yield of cowpea/ Saidi M …[*et al*.]
Crop Science, 2007, 47 (3), p. 1159-1166
Keywords: Biomass production; Cowpeas; Crop yield; Dry matter accumulation; Dry matter distribution; Harvesting; Initiation; Leaves

417. Occurrence of leaf spot on cowpea (*Vigna unguiculata*) caused by *Xanthomonas axonopodis* pv. *vignicola* in Mozambique/ Moretti C; Mondjana A.M; Zazzerini A.
Plant Pathology, 2007, 56 (2), p. 347
Keywords: Cowpeas; Vigna unguiculata; Geographical distribution; New geographic records; Xanthomonas axonopodis; Pathogenicity; Plant diseases; Plant pathogenic bacteria; Plant pathogens

418. Performance of upland rice fitted into lowland rice-vegetable/cowpea sequence in rainfed inland valley/Adigbo S.O; Okeleye K.A; Adigbo V.B
Agronomy Journal, 2007, 99 (2), p. 377-383
Keywords: Cowpeas; Crop yield; Fallow; Growth; Okras; Plant height; Sequential cropping; Upland rice; Vegetables

419. Toxic effects of low concentrations of Cu on nodulation of cowpea (*Vigna unguiculata*)/ Kopittke-P-M. Dart-P-J. Menzies-
Environmental Pollution, 2007, 145 (1), p. 309-315
Keywords: Bioavailability; Cowpeas; Nitrogen fixation; Phytotoxicity; Polluted soils; Root hairs; Soil pollution; Soil types; Survival

420. Toxic effects of Pb^{2+} on growth of cowpea (*Vigna unguiculata*)/ Kopittke Peter.M. ...[*et al*.]

Environmental Pollution, 2007, 150 (2), p. 280-287
Keywords:Toxicology; Pollution; Assessment Control; Management; Cowpeas; Growth

421. Yield components of nodulated cowpea (*Vigna unguiculata*) and maize (*Zea mays*) plants grown with exogenous phosphorus in different cropping systems/ Ndakidemi P.A; Dakora F.D
Australian Journal of Experimental Agriculture, 2007, 47 (5), p. 583-589
Keywords: Cowpeas; Crop yield; Interrow cultivation; Maize; Phosphorus fertilizers; Sole cropping; Yield components

2008
PROQUEST

422. Biolistic-mediated genetic transformation of cowpea (*Vigna unguiculata*) and stable Mendelian inheritance of transgenes/ Nayche L Ivo ...[*et al*.]
Plant Cell Reports. Berlin:Sep 2008. Vol. 27, Iss. 9, p. 1475-1483
Keywords:Vigna unguiculata; Cowpeas; Genetic transformation; Genetic inheritance

423. Combining ability analysis and association of yield and yield components among selected cowpea lines/ Kwaye G Romanus, Shimelis Hussein, William P Mashela
Euphytica. Dordrecht:Jul 2008. Vol. 162, Iss. 2, p. 205-210
Keywords:Cowpeas; Combining ability; Yield components; Yields

424. Drought tolerance assessment of African cowpea accessions based on stomatal behaviour and cell membrane stability/ M T Labuschagne, R Verhoeven, M Nkouanessi
Journal of Agricultural Science. Cambridge:Dec 2008. Vol. 146, Iss. 6, p. 689-694
Keywords: Cowpeas; Drought resistance; Stomata; Cell membranes

425. Effectiveness of early generation selection in cowpea for grain yield and agronomic characteristics in semiarid West Africa/ Francis K Padi, Jeffrey D Ehlers
Crop Science. Madison:Mar/Apr 2008. Vol. 48, Iss. 2, p. 533-540
Keywords:Cowpeas; Selection; Agronomic characters; Yields

426. Evaluation of crop yield models for cowpea in Nigeria/ Kenneth O Adekalu, David A Okunade
Irrigation Science. Berlin:Jul 2008. Vol. 26, Iss. 5, p. 385-393
Keywords:Cowpeas; Crop yield; Models; Nigeria

427. Quantitative resistance to Cercospora leaf spot disease caused by *Pseudocercospora cruenta* in cowpea/ Helen M Booker, Pathmanathan Umaharan
Euphytica. Dordrecht:Jul 2008. Vol. 162, Iss. 2, p. 167-177
Keywords: Cowpeas; Cercospora; Spots; Disease resistance; Pseudocercospora crueta

428. Seedling stage drought-induced phenotypes and drought-responsive genes in diverse cowpea genotypes/ Wellington Muchero, Jeffrey D Ehlers, Philip A Roberts
Crop Science. Madison:Mar/Apr 2008. Vol. 48, Iss. 2, p. 541-552
Keywords:Cowpeas; Genotypes; Drought; Phenotypes; Genetics

429. Toxicities of soluble Al, Cu, and La include ruptures to rhizodermal and root cortical cells of cowpea/ P M Kopittke, F P C Blamey, N W Menzies.
Plant and Soil. The Hague:Feb 2008. Vol. 303, Iss. 1-2, p. 217-227
Keywords: Cowpeas; Toxicity; Aluminium; Copper; Roots

430. Transgenic cowpea (*Vigna unguiculata*) seeds expressing a bean [alpha]-amylase inhibitor 1 confer resistance to storage pests, bruchid beetles/ Siva Kumar Solleti, ...[*et al*.]
Plant Cell Reports. :Dec 2008. Vol. 27, Iss. 12, p. 1841-1850
Keywords:Cowpeas; Vigna unguiculata; Amylase inhibitor;

Stored products pests; Pest resistance; Coleoptera

TEEAL

431. Alternative hosts of Asian soybean rust (*Phakopsora pachyrhizi*) in South Africa/ Nunkumar-A. Caldwell-P-M. Pretorius-Z-A
*South African Journal of Plant and Soi*l, 2008, 25 (1), p. 62-63
Keywords: Alternative hosts; Cowpeas; Fungal diseases; Fungal spores; Lucerne; Pigeon peas; Plant diseases; Plant pathogenic fungi; Plant pathogens; Soybeans; Rusts; Phakopsora pachyrhizi

432. Effectiveness of early generation selection in cowpea for grain yield and agronomic characteristics in semiarid West Africa/ Padi-F-K. Ehlers-J-D
Crop Science, 2008, 48 (2), p. 533-540
Keywords: Agronomic characters; Artificial selection; Cowpeas; Crop yield; Flowering date; Genetic correlation

433. Growth, photosynthetic pigments and photosynthetic activity during seedling stage of cowpea (*Vigna unguiculata*) in response to UV-B and dimethoate/ Mishra-Vagish. Srivastava-Garima. Prasad-Sheo-Moha.
Pesticide Biochemistry and Physiology, 2008, 92 (1), p. 30-37
Keywords: Cowpeas; Vigna unguiculata; Radiation biology; Bioenergetics; Pesticides; Horticulture; Photosynthesis, Growth rate

434. Hydroxamate siderophores produced by *Streptomyces acidiscabies* E13 bind nickel and promote growth in cowpea (*Vigna unguiculata* L.) under nickel stress/Dimkpa-Christian. …[*et al*.]
Canadian Journal of Microbiology, 2008, 54 (3), p. 163-172
Keywords: Plant biochemistry; Molecular biophysics; Toxicology; Nickel; Streptomyces acidiscabies; Vigna unguiculata; Growth

435. Long-term impact of fertilizers on soil organic carbon pools and sequestration rates in maize-wheat-cowpea cropping system/ Purakayastha-T-J. …[*et al*.]
Geoderma, 2008, 144 (1-2), p. 370-378
Keywords: Carbon sequestration; Cowpeas; Wheats; Zea mays; Cropping systems; Farmyard manure; Humification; NPK fertilizers; Organic carbon; Soil organic matter

436. Nitrate-nitrogen concentrations in the perched ground water under seepage-irrigated potato cropping systems/Munoz-Arboleda-F. …[*et al*.]
Journal of Environmental Quality, 2008, 37 (2), p. 387-394
Keywords: Cowpeas; Potatoes; Nitrates; Ground water; Irrigation; Cropping systems

437. Response of representative cover crops to aluminum toxicity, phosphorus deprivation, and organic amendment/ Vieira-F-C-B. ...[*et al*.]
Australian Journal of Agricultural Research, 2008, 59 (1), p. 52-61
Keywords: Aluminium; Chemical composition; Chlorophyll; Citrates; Cover crops; Cowpeas; Heavy metals; Leaves; Mineral content; Mineral deficiencies; Nutrient content

438. Response surface methodology for optimisation of protein concentrate preparation from cowpea [*Vigna unguiculata* (L.) Walp] /Mune-Mune-Martin-Alai. ...[*et al*.]
Food Chemistry, 2008, 110 (3), p. 735-741
Keywords: Cowpeas; Vigna unguiculata; Protein concentrates; Surface tension

439. Seedling stage drought-induced phenotypes and drought-responsive genes in diverse cowpea genotypes/Muchero-W. Ehlers-J-D. Roberts-P-A
Crop Science, 2008, 48 (2), p. 541-552
Keywords: Abscission; Anthocyanins; Cowpeas; Drought resistance; Genes; Genetic polymorphism; Genotypes; Phenotypes

440. Wounding-induced PPO from cowpea (*Vigna unguiculata*) seedlings/ Pinto-M-S-T. Siqueira-F-P. Oliveira-A-E-A.
Phytochemistry, 2008, 69 (12), p. 2297-2302
Keywords: Cowpeas; Vigna unguiculata; Seedlings; Induced mutation

2009
PROQUEST

441. Breeding drought tolerant cowpea: constraints, accomplishments, and future prospects/ E M Agbicodo ...[*et al*.]
Euphytica. Dordrecht:Jun 2009. Vol. 167, Iss. 3, p. 353-370
Keywords: Cowpeas; Drought resistance; Plant breeding

442. *Colletotrichum destructivum* from cowpea infecting *Arabidopsis thaliana* and its identity to C. Higginsianum/ Hu Sun, Jing-Ze Zhang
European Journal of Plant Pathology. Dordrecht:Nov 2009. Vol. 125, Iss. 3, p. 459-469
Keywords:Cowpeas; Arabidopsis thaliana; Colletotrichum destructivum; Pathogenesis; Identification

443. Combined effect of host plant resistance and insecticide application on the development of cowpea viral diseases/ Z Ambang ...[*et al*.]
Australian Journal of Crop Science. Lismore:May 2009. Vol. 3, Iss. 3, p. 167-172
Keywords:Cowpeas; Hosts; Insecticides; Viroses; Disease transmission

444. Detection and identification of the blackeye cowpea mosaic strain of bean common mosaic virus in seeds of cowpea from southern India/ Arakere C Udaya Shankar ...[*et al*.]
Phytoparasitica. Dordrecht:Jul 2009. Vol. 37, Iss. 3, p. 283-293

Keywords:Cowpeas; Seeds; Cowpea mosaic comovirus; Identification

445. Functional properties of 7s globulin extracted from cowpea vicilins/ Mei-Li Zhang, Ju-Lin Gao, Hai-Xia Yang
Cereal Chemistry. St. Paul:May/Jun 2009. Vol. 86, Iss. 3, p. 261-266
Keywords: Cowpeas; Globulins; Extracts

446. Gene developed through conventional breeding will improve cowpea aphid resistance/ Blair Fannin
Southwest Farm Press. Clarksdale:Sep 3, 2009. Vol. 36, Iss. 17, p. 11
Keywords: Cowpeas; Insecticides; Pest resistance; Genes

447. Genetic analysis of resistance to flower bud thrips (*Megalurothrips sjostedti*) in cowpea (*Vigna unguiculata* [L.] Walp.)/ E E Omo-Ikerodah, C A Fatokun, I Fawole
Euphytica. Dordrecht:Jan 2009. Vol. 165, Iss. 1, p. 145-154
Keywords: Cowpeas; Vigna unguiculata; Flowers; Thrips (Genus); Genetic resistance; Pest insects

448. Impact of long-term additions of chemical fertilizers and farm yard manure on carbon and nitrogen sequestration under rice-cowpea cropping system in semi-arid tropics/ K Banger ...[*et al*.]
Plant and Soil. The Hague:May 2009. Vol. 318, Iss. 1-2, p. 27-35
Keywords: Cowpeas; Cropping systems; Rice; Farmyard manure; Fertilizer application

449. Seasonal and regional distribution of the cowpea pod borer *Maruca vitrata* (*Lepidoptera*: Crambidae) in Burkina Faso/ Niango Malick Ba ...[*et al*.]
International Journal of Tropical Insect Science. Cambridge:Sep 2009. Vol. 29, Iss. 3, p. 109-113
Keywords:Cowpeas; Maruca vitrata; Geographical distribution; Pest insects; Seasons

SCIENCEDIRECT

450. Aspects of water status of various organs in drought tolerant

cowpea plants exposed to drought stress compared with the common bean/ Masakazu Imamura …[*et al*.]
Cryobiology, Volume 59, Issue 3, December 2009, p. 402, ISSN 0011-2240
Keywords: Cowpeas; Water use; Drought stress; Plant organs

451. Crop coefficients and water use for cowpea in the San Joaquin Valley of California/ W.R. DeTar
Agricultural Water Management, Volume 96, Issue 1, January 2009, p. 53-66, ISSN 0378-3774
Keywords: Cowpeas; Vigna unguiculata; Black eyed peas; Crop coefficients; Evapotranspiration; Irrigation; Subsurface drip irrigation; Water use

452. Determination of the effective diffusivity via minimization of the objective function by scanning: Application to drying of cowpea/ Wilton Pereira da Silva …[*et al*.]
Journal of Food Engineering, Volume 95, Issue 2, November 2009, p. 298-304, ISSN 0260-8774
Keywords: Cowpeas; Optimization; Diffusion equation; Drying; Analytical solution; Minimization

453. Development of a rapid, highly efficient system of organogenesis in cowpea *Vigna unguiculata* (L.) Walp*/* S. Raveendar ...[*et al*.]
South African Journal of Botany, Volume 75, Issue 1, January 2009, p. 17-21, ISSN 0254-6299
Keywords: Cotyledonary node; Cowpeas; Vigna unguiculata; Organogenesis; Genotypes; Regeneration; Plantlets

454. Effects of cowpea varietal susceptibility and low pressure on the mortality of life stages of *Callosobruchus maculatus (Coleoptera: Bruchidae)/* George N. Mbata, Thomas W. Phillips, Mark E. Payton
Journal of Stored Products Research, Volume 45, Issue 4, October 2009, p. 232-235, ISSN 0022-474X
Keywords:Biological control; Physical control; Controlled atmospheres;Cowpeas; Varieties; Low pressure; Hosts; Pest resistance

455. Genotypic variability in P use efficiency for symbiotic nitrogen fixation is associated with variation of proton efflux in cowpea rhizosphere/ Nora Alkama …[*et al*.]
Soil Biology and Biochemistry, Volume 41, Issue 9, September 2009, p. 1814-1823, ISSN 0038-0717
Keywords:Cowpeas; Vigna unguiculata; Varieties; Genotypes; Nodule respiration; Phosphorus; Proton efflux; Nitrogen fixation; **Adaptation**

456. *In vitro* micropropagation from plumular apices of Turkish cowpea (*Vigna unguiculata* L.) cultivar Akkiz/ Muhammad Aasim, Khalid Mahmood Khawar, Sebahattin Ozcan
Scientia Horticulturae, Volume 122, Issue 3, 1 October 2009, p. 468-471, ISSN 0304-4238
Keywords: Cowpeas; Micropropagation; Plumular apices; Pulse treatment; In vitro culture; Embryos

457. Isolation of rhizobia from Lebeckia species indigenous to South Africa and their nodulation properties on Lebeckia and the promiscuous legumes cowpea and siratro/ F.L. Phalane ...[*et al*.]
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 438, ISSN 0254-6299
Keywords: Cowpeas; Rhizobia; Nodulation; Isolation; South Africa

458. Natural infection of cowpea (*Vigna unguiculata* (L.) Walp.) by toxigenic fungi and mycotoxin contamination in Benin/ P.A. Houssou …[*et al*.]
West Africa, Journal of Stored Products Research, Volume 45, Issue 1, 2009, p. 40-44, ISSN 0022-474X
Keywords:Cowpeas; Vigna unguiculata; **Fungi; Aflatoxin; Fumonisin; Susceptibility; Aspergillus flavus**

459. Omega-3 fatty acid desaturase (FAD3, FAD7, FAD8) gene expression and linolenic acid content in cowpea leaves submitted to drought and after rehydration/ Maria-Lucia Torres-Franklin …[*et al*.]
Environmental and Experimental Botany, Volume 65, Issues 2-3, March 2009, p. 162-169, ISSN 0098-8472
Keywords:Drought tolerance; Fatty acid denaturase; Gene

expression;Leaves; Linolenic acid; Rehydration; Vigna unguiculata; Cowpeas

460. Photosynthesis, fluorescence, shoot biomass and seed weight responses of three cowpea (*Vigna unguiculata* (L.) Walp.) cultivars with contrasting sensitivity to UV-B radiation/ Giridara-Kumar Surabhi, K. Raja Reddy, Shardendu Kumar
Environmental and Experimental Botany, Volume 66, Issue 2, May 2009, p. 160-171, ISSN 0098-8472
Keywords: Chlorophyll fluorescence; Cowpeas; Varieties; Vigna unguiculata; Photosynthesis; Ultraviolet; Radiation

461. Radiation-induced genome alterations in *Vigna unguiculata/* C. Van der Vyver, C. Cullis, J. Vorster
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 424, ISSN 0254-6299
Keywords:Cowpeas; Vigna unguiculata; Genomes; Radiation

462. Rapid screening methods to evaluate cowpea cooking characteristics/ H. Yeung …[*et al*.]
Field Crops Research, Volume 112, Issues 2-3, 26 June 2009, p. 245-252, ISSN 0378-4290
Keywords:Cowpeas; Vigna unguiculata; Varieties; Breeding lines; Screening methods; Grain; Quality; Cooking; Organoleptic properties

463. Runoff water harvesting for dry spell mitigation for cowpea in the savannah belt of Nigeria/ K.O. Adekalu …[*et al*.]
Agricultural Water Management, Volume 96, Issue 11, November 2009, p. 1502-1508, ISSN 0378-3774
Keywords:Cowpeas; Supplemental irrigation; Water deficit; Macro; Micro; Catchments; Semi circular bunds; Smallholders; Farming systems; Conventional tillage; **Yields**

464. *Vigna mungo*, *V. radiata* and *V. unguiculata* plants sampled in different agronomical-ecological-climatic regions of India are nodulated by *Bradyrhizobium yuanmingense*/ Chinnaswamy Appunu …[*et al*.]
Systematic and Applied Microbiology, Volume 32, Issue 7,

October 2009, p. 460-470, ISSN 0723-2020
Keywords:Bradyrhizobium; Diversity; Phylogeny; Multilocus; Sequence analysis; Symbiotic genes; **Genotypes; RFLP; DNA**

2010
PROQUEST

465. Efficacy of different entomopathogenic fungi against cowpea aphid, *Aphis craccivora* (Koch)/ S Saranya ...[*et al*.]
Journal of Biopesticides. Tamil Nadu:2010. Vol. 3, Iss. 1, p. 138-142
Keywords:Cowpeas; Aphis craccivora; Aphids; Entomogenous fungi

466. Evaluation of cowpea genotypes of semi-prostrate port under dry and irrigated cultivation/ Raimundo Nonato Benvindo ...[*et al*.]
Scientiae. Bom Jesus:2010. Vol. 1, Iss. 1, p. 23-28
Keywords: Cowpeas; Genotypes; Irrigation; Cultivation; Evaluation

467. Evaluation of the nutritional potentials of physically treated cowpea seed hulls in poultry feed/ O A Adebiyi ..[*et al*.]
Journal of Food and Agriculture. Al-Ain:Jun 2010. Vol. 22, Iss. 3, p. 232-238
Keywords: Cowpeas; Seeds; Nutritive value; Feeds; Evaluation

468. Molecular and expression analysis of cowpea trypsin inhibitor (cpti) gene in transgenic *Elaeis guineensis* Jacq Leaves/ Ismanizan Ismail ...[*et al*.]
Australian Journal of Crop Science. Lismore:Jan 2010. Vol. 4, Iss.1, p. 37-48
Keywords: Cowpeas; Elaeis guineensis; Leaves; Genes; Transgenic plants; Molecular analysis; Trypsin inhibitors

469. Olfactory response of cowpea aphid, *Aphis craccivora* Koch, to host odours and population of conspecifics/ J Jaba ...[*et al*.]

Journal of Biopesticides. Tamil Nadu:2010. Vol. 3, Iss. 1, p. 405-407

Keywords: Cowpeas; Aphids; Aphis craccivora; Hosts; Population density

SCIENCEDIRECT

470. Biological activity and persistence of four essential oils towards the main pest of stored cowpeas, *Callosobruchus maculatus (F.) (Coleoptera: Bruchidae)/* Z. Ilboudo …[*et al*.]
Journal of Stored Products Research, Volume 46, Issue 2, April 2010, p. 124-128, ISSN 0022-474X

Keywords:Cowpeas; Storage product pests; Essential oils; Persistence; Ocimum americanum; Chemical stability; Temperature; Biological control

471. Cinnamic acid-inhibited ribulose-1,5-bisphosphate carboxylase activity is mediated through decreased spermine and changes in the ratio of polyamines in cowpea/ Xingxue Huang, Zhilong B.
Journal of Plant Physiology, Volume 167, Issue 1, 1 January 2010, p. 47-53, ISSN 0176-1617

Keywords: Cinnamic acid; Cowpeas; Polyamines ratio; Spermine; Ribulose; Rubisco

472. Cowpea (*Vigna unguiculata* [L.] Walp.) genotypes response to multiple abiotic stresses/ Shardendu K. Singh …[*et al*.]
Journal of Photochemistry and Photobiology B: Biology, Volume 100, Issue 3, 2 September 2010, p. 135-146, ISSN 1011-1344

Keywords:Cowpeas; Vigna unguiculata; Genotypes; Carbon dioxide; Pollen; Response index; Screening; Temperature; Ultraviolet; Radiation

473. Cowpea (*Vigna unguiculata* L. Walp.) as a green manure to improve the productivity of a menthol mint (*Mentha arvensis L.*) intercropping system/ Man Singh …[*et al*.]
Industrial Crops and Products, Volume 31, Issue 2, March 2010, p. 289-293, ISSN 0926-6690

Keywords:Mentha arvensis; Cowpeas; Vigna unguiculata; Intercropping; Green manures; Cymbopogon

martinii; Essential oils; Yields

474. Development and characterization of dehydrated peanut-cowpea milk powder for use as a dairy milk substitute in chocolate manufacture/ Herta Aidoo …[*et al*.]
Food Research International, Volume 43, Issue 1, January 2010, p. 79-85, ISSN 0963-9969
Keywords: Groundnuts; Cowpeas; Dried milk; Chocolate; Powders; Functional properties; Friedman test

475. Differential expression of defence-related proteins in *Vigna unguiculata* (L. Walp.) seedlings after infection with *Fusarium oxysporum*/ Felipe A. Vieira …[*et al*.]
Crop Protection, Volume 29, Issue 5, May 2010, p. 440-447, ISSN 0261-2194
Keywords:Vigna unguiculata; Fusarium oxysporum; Beta galactosidase; Seedlings; Peroxidases

476. Effects of processed cowpea (*Vigna unguiculata* L. Walp) haulms as a feed supplement on voluntary intake, utilization and blood profile of West African dwarf sheep fed a basal diet of *Pennisetum purpureum* in the dry season/ U.Y. Anele …[*et al*.]
Animal Feed Science and Technology, Volume 159, Issues 1-2, 20 July 2010, Pages 10-17, ISSN 0377-8401
Keywords: Cowpeas; Vigna unguiculata; Pennisetum purpureum; Sheep; Growth; Haematological variables; Digestibility; Supplements; Dietary treatments; Crude protein

477. Homoglutathione synthetase and glutathione synthetase in drought-stressed cowpea leaves: Expression patterns and accumulation of low-molecular-weight thiols/ Maria H. Cruz de Carvalho …[*et al*.]
Journal of Plant Physiology, Volume 167, Issue 6, 15 April 2010, p. 480-487, ISSN 0176-1617
Keywords: Vigna unguiculata; Drought tolerance; Glutathione synthetase; Homoglutathione synthetase; Thiols

478. Impact of global warming on cowpea bean cultivation in Northeastern Brazi/ Vicente de P.R. Silva …[*et al*.]
Agricultural Water Management, Volume 97, Issue 11, 1 November 2010, p. 1760-1768, ISSN 0378-3774
Keywords: Cowpeas; Cultivation; Climate change; Crop modeling; Rainfall; Water balance model; Brazil

479. Integrated soil fertility management enhances population and effectiveness of indigenous cowpea rhizobia in semi-arid eastern Kenya/ Jacinta M. Kimiti, David W. Odee
Applied Soil Ecology, Vol. 45, Iss. 3, July 2010, p. 304-309, ISSN 0929-1393
Keywords:Integrated control; Soil fertility; Isolate groups; Nodulation; On farm trial; Rhizobia populations; Semi arid; Kenya

480. Isolation and characterization of novel plant growth promoting Micrococcus sp NII-0909 and its interaction with cowpea/ Syed G. Dastager, C.K. Deepa, Ashok Pandey
Plant Physiology and Biochemistry, Volume 48, Issue 12, December 2010, p. 987-992, ISSN 0981-9428
Keywords: Cowpeas; Plant growth; rRNA; Micrococcus; Isolation techniques

481. Protein fractions, amino acid composition and antinutritional constituents of high-yielding cowpea cultivars/ Ilka Maria Vasconcelos …[*et al*.]
Journal of Food Composition and Analysis, Volume 23, Issue 1, February 2010, p. 54-60, ISSN 0889-1575
Keywords: Vigna unguiculata; Cowpeas; Protein fractions; Amino acids; Antinutritional factors; Trypsin inhibitors; Hemagglutinin; Food analysis; Food composition

482. Seed flavonoids and anthocyanins as markers of enhanced plant defence in nodulated cowpea (*Vigna unguiculata* L. Walp.)/

Joachim H.J.R. Makoi …[*et al*.]
Field Crops Research, Volume 118, Issue 1, 6 July 2010, p. 21-27, ISSN 0378-4290
Keywords: Cowpeas; Vigna unguiculata; Aphids; Thrips; Alcidodes; Fruit damaging insects; Insect pests; Monoculture; Sorghum; Mixed farming

483. Stress-induced co-expression of two alternative oxidase (VuAox1 and 2b) genes in *Vigna unguiculata*/ Jose Helio Costa …[*et al*.]
Journal of Plant Physiology, Volume 167, Issue 7, 1 May 2010, p. 561-570, ISSN 0176-1617
Keywords:Vigna unguiculata; Alternative oxidase; Evolution; Genes; Intron length; Stress

484. Variety identification and comparative analysis of genetic diversity in yardlong bean (*Vigna unguiculata spp. sesquipedalis*) using morphological characters, SSR and ISSR analysis/ P. Tantasawat…[*et al*.]
Scientia Horticulturae, Volume 124, Issue 2, 15 March 2010, p. 204-216, ISSN 0304-4238
Keywords:Vigna unguiculata; Genetic variation; Microsatellites; Intersimple sequence repeat; Molecular markers; Identification; Simple sequence repeat

2011
SCIENCEDIRECT

485. Changes in oxygen and carbon dioxide environment alter gene expression of cowpea bruchids/Yong Hun Chi …[*et al*.]
Journal of Insect Physiology, Volume 57, Issue 1, January 2011, p. 220-230, ISSN 0022-1910
Keywords: Cowpeas; Bruchids; Hypoxia; Hypercapnia; Microarray; qRT; PCR; Carbon dioxide; Gene

expression

486. Chemical characterization, in vitro dry matter and ruminal crude protein degradability and microbial protein synthesis of some cowpea (*Vigna unguiculata* L. Walp) haulm varieties/ U.Y. Anele …[*et al*.]
Animal Feed Science and Technology, Volume 163, Issues 2-4, 11 February 2011, p.161-169, ISSN 0377-8401
Keywords:Cowpeas; Vigna unguiculata; Varieties; Partitioning factor; Ruminant production; Seasons; Substrate degradability;Chemical composition; Dry matter; Crude protein

487. Impact of cowpea addition on the protein digestibility corrected amino acid score and other protein quality parameters of traditional African foods made from non-tannin and tannin sorghum/ Joseph O. Anyango, Henriette L. de Kock, John R.N. Taylor
Food Chemistry, Volume 124, Issue 3, 1 February 2011, p. 775-780, ISSN 0308-8146
Keywords: Sorghum; Cowpeas; Vigna unguiculata; Protein quality; Lysine score; Proteins; Digestibility; Amino Acid Score; Tannins; Traditional African foods

488. Levels of nutritionally-important trace elements and macronutrients in edible leaves and grain of 27 nodulated cowpea (*Vigna unguiculata* L. Walp.) genotypes grown in the Upper West Region of Ghana/ Alphonsus K. Belane, Felix D. Dakora
Food Chemistry, Vol. 125, Issue 1, 1 March 2011, p. 99-105, ISSN 0308-8146
Keywords: Cowpeas; Vigna unguiculata; Leaves Diet; Crop species; Genotypes; Micronutrient deficiency; Mineral density; Nutrient poor soils

489. Water use efficiency of dryland cowpea, sorghum and sunflower under reduced tillage/ T.S. Moroke …[*et al*.]
Soil and Tillage Research, Volume 112, Issue 1, March 2011, p. 76-84, ISSN 0167-1987
Keywords: Cowpeas; Vigna unguiculata; Sorghum; Sunflower; Evapotranspiration; Soil water contents; Tillage

KACANG UCI

2006
TEEAL

490. Characterization of *Callosobruchus chinensis* (L.) resistance in *Vigna umbellata* (Thunb.) Ohwi & Ohashi/ Somta-P. Talekar-N-S. Srinives-P
Journal of Stored Products Research, 2006, 42 (3), p. 313-327
Keywords: Cultivars; Insect pests; Vigna umbellata; Pest resistance; Plant pests; Seeds; Stored products pests

491. Variation in the nod gene RFLPs, nucleotide sequences of 16S rRNA genes, nod factors, and nodulation abilities of *Bradyrhizobium* strains isolated from Thai Vigna plants/ Yokoyama-T. ...[*et al*.]
Canadian Journal of Microbiology, 2006, 52 (1), p. 31-46
Keywords: Lack gram; Genetic diversity; Genetic variation; Mung beans; Nitrogen fixation; Nitrogen fixing

bacteria; Bradyrhizobium; Nodulation

2008
SCIENCEDIRECT

492. Study of conformation of vicilin from *Dolichos lablab* and *Phaseolus calcaratus* by Fourier-transform infrared spectroscopy and differential scanning calorimetry/ Ho-Ying Law, Siu-Mei Choi, Ching-Yung Ma
Food Research International, Volume 41, Issue 7, August 2008, p. 720-729, ISSN 0963-9969
Keywords: Dolichos lablab; Phaseolus calcaratus; Vicilin; FTIR spectroscopy; Differential scanning calorimetry; Protein conformation; Denaturation; Thermal stability

TEEAL

493. Effects of supplementation of mixed cassava (*Manihot esculenta*) and legume (*Phaseolus calcaratus*) fodder on the rumen degradability and performance of growing cattle/ Thang-C-M. Sanh-M-V. Wiktorsson-H
Asian-Australasian Journal of Animal Sciences, 2008, 21 (1), p. 66-74
Keywords: Vigna umbellata; Manihot esculenta; Cassava; Cattle; Supplements; Rumen digestion; Animal performance

494. Efficiency of RAPD and ISSR markers system in accessing genetic variation of rice bean (*Vigna umbellata*) landraces/ Muthusamy-Saraladevi. Kanagarajan-Selvaraju. Ponnusamy-Shanmugasundaram
Electronic Journal of Biotechnology, 2008, 11 (3), p. 1-10
Keywords: Vigna umbellata; Molecular genetics; Genetic variation, Polymorphism information content; ISSR

2009
PROQUEST

495. Adzuki bean leaf infection by *Phytophthora vignae* f. sp. adzukicola and resistance evaluation using detached leaves inoculated with zoospores/ Genki Harada, Norio Kondo
Journal of General Plant Pathology : JGPP. Tokyo:Feb 2009. Vol. 75, Iss. 1, p. 52-55
Keywords: Vigna angularis; Adzuki beans; Phytopthora; Leaves; Infection; Infectious diseases; Fungal spores

496. Induction of phytoalexins in adzuki bean after inoculation with *Phytophthora vignae* f. sp. Adzukicola/ Genki Harada, Norio K.
Journal of General Plant Pathology : JGPP. Tokyo:Dec 2009. Vol. 75, Iss. 6, p. 432-436
Keywords:Vigna angularis; Adzuki beans; Phytopthora; Inoculation; Phytoalexins

497. Profiles of lipid components, fatty acid compositions and triacylglycerol molecular species of adzuki beans (*Vigna angularis*)/ Hiromi Yoshida ...[*et al*.]
Journal of the American Oil Chemists' Society. Champaign:Jun 2009. Vol. 86, Iss. 6, p. 545-552
Keywords: Vigna angularis; Adzuki beans; Species; Fatty acids; Triglycerides; Proximate composition

498. Screening of cultivated and wild adzuki bean for resistance to race 3 of *Cadophora gregata* f. sp. adzukicola, cause of brown stem rot/ Norio Kondo, Hisanori Shimada, Shohei Fujita
Journal of General Plant Pathology : JGPP. Tokyo:Jun 2009. Vol. 75, Iss. 3, p. 181-187
Keywords: Vigna angularis; Adzuki beans; Cadophora gregata; Stems; Pest resistance; Testing; Cultivation

499. Variation in adzuki bean (*Vigna angularis*) germplasm grown in China/ Robert J Redden ...[*et al*.]
Crop Science. Madison:May/Jun 2009. Vol. 49, Iss. 3, p. 771-782
Keywords: Vigna angularis; Adzuki beans; Germplasm; Variants; China

KORO BENGUK
2006
PROQUEST

500. Use of velvet beans, *Mucuna spp*., as a feed ingredient for poultry: a review/ L B Carew, A G Gernat
World's Poultry Science Journal. Cambridge: Mar 2006.Vol. 62, Iss.1, p. 131-143
Keywords:Velvet beans; Mucuna; Feed ingredient; Poultry

SCIENCEDIRECT

501. Differential use and benefits of velvet bean (*Mucuna pruriens* var. utilis) and N fertilizers in maize production in contrasting agro-ecological zones of E. Uganda/ Crammer K. Kaizzi, Henry Ssali, Paul L.G. Vlek
Agricultural Systems, Volume 88, Issue 1, Heterogeneity and Diversity in Less-Favoured Areas, April 2006, p. 44-60, ISSN 0308-521X
Keywords: Velvet beans; Mucuna pruriens; Inorganic N; Biological nitrogen fixation; Soil productivity; Economic benefits; Agro ecological zones

2007

SCIENCEDIRECT

502. Effect of ionizing radiation on antinutritional features of velvet bean seeds (*Mucuna pruriens*)/ Rajeev Bhat …[*et al*.]
Food Chemistry, Volume 103, Issue 3, 2007, p. 860-866, ISSN 0308-8146
Keywords:Mucuna pruriens; Seeds; Gamma irradiation; Antinutritional factors; Phenolics; Phytic acid; L-DOPA; Pharmaceutical; Quality

503. Free radicals in velvet bean seeds (*Mucuna pruriens* L. DC.) and their status after [gamma]-irradiation and conventional processing/ Rajeev Bhat, Kandikere R. Sridhar, Brij Bhushan
LWT - Food Science and Technology, Volume 40, Issue 9, November 2007, p. 1570-1577, ISSN 0023-6438
Keywords: Mucuna pruriens; Seeds; Electron spin resonance; Free radicals; Detection; Radiation processing; Heating; Pounding

504. Synergistic effect of a tropical earthworm *Balanteodrilus pearsei* and velvet bean *Mucuna pruriens var. utilis* on maize growth and crop production/ Angel I. …[*et al.*]
Applied Soil Ecology, Vol.35, Issue 2, February 2007, p.356-362, ISSN 0929-1393
Keywords:Mucuna pruriens; Velvet beans; Native earthworms; Cover crops; Zea mays; Green manures; Sustainable agriculture; Tropical agroecosystems

2008
PROQUEST

505. Intercropping corn with lablab bean, velvet bean, and scarlet runner bean for forage / Kevin L Armstrong, Kenneth A Albrecht, Joseph G Lauer
Crop Science, Madison: Jan/Feb 2008. Vol. 48, Iss. 1, p. 371-379
Keywords:Lablab purpureus; Velvet beans; Zea mays; Intercropping; Forage

SCIENCEDIRECT

506. Effect of differential processing methods on L-Dopa and protein quality in velvet bean, an underutilized pulse/ Parameswaran Gurumoorthi, Karnam Janardhanan, Rolf V. Myhrman
LWT - Food Science and Technology, Volume 41, Issue 4, May 2008, p. 588-596, ISSN 0023-6438
Keywords: Velvet beans; Essential amino acid; L-Dopa; Processing methods; Proteins; Quality; Grain legumes

2009
SCIENCEDIRECT

507. Improved health-relevant functionality in dark germinated *Mucuna pruriens* sprouts by elicitation with peptide and phytochemical elicitors/ Reena Randhir, Young-In Kwon, Kalidas Shetty
Bioresource Technology, Volume 100, Issue 19, October 2009, p. 4507-4514, ISSN 0960-8524
Keywords:Mucuna pruriens; Phenolics; Levo dihydroxy phenylalanine; L-DOPA; Anti diabetes; Parkinson's disease management

508. Nutritional characterization of *Mucuna pruriens*: 1. Effect of maturity on the nutritional quality of botanical fractions and the whole plant/S.K. Chikagwa-Malunga …[*et al*.]
Animal Feed Science and Technology, Volume 148, Issue 1, 2 January 2009, p. 34-50, ISSN 0377-8401
Keywords: Mucuna pruriens; Yields; Maturity; Nutritive value; Tannins; L-Dopa

509. Nutritional characterization of *Mucuna pruiriens*: 2. In vitro ruminal fluid fermentability of *Mucuna pruriens*, Mucuna l-dopa

and soybean meal incubated with or without l-dopa/ S.K. Chikagwa-Malunga …[*et al*.]
Animal Feed Science and Technology, Volume 148, Issue 1, 2 January 2009, p. 51-67, ISSN 0377-8401
Keywords: Mucuna pruriens; L-Dopa; Soybean meal; Digestibility; Gas production

510. Nutritional characterization of *Mucuna pruriens:* 3. Effect of replacing soybean meal with Mucuna on intake, digestibility/S.K. Chikagwa-Malunga …[*et al*.]
Animal Feed Science and Technology, Volume 148, Issues 2-4, 16 January 2009, p. 107-
Keywords:Mucuna pruriens; Soybeans; Nutrient intake; Digestibility; Microbial protein; Nitrogen retention

511. Nutritional characterization of *Mucuna pruriens:* 4. Does replacing soybean meal with *Mucuna pruriens* in lamb diets affect ruminal, blood and tissue l-dopa concentrations?/S.K. Chikagwa-Malunga …[*et al.*]
Animal Feed Science and Technology, Volume 148, Issues 2-4, 16 January 2009, p. 124-137, ISSN 0377-8401
Keywords: Mucuna pruriens; Velvet beans; Sseeds; Acute phase protein; Weight gain; L-Dopa; Protein supplement

KORO PEDANG
2006
PROQUEST

512. Effects of *Canavalia ensiformis* and *Mucuna pruriens* intercrops on *Pratylenchus zeae* damage and yield of maize in

subsistence agriculture/ O J Arim, J W Waceke, S W Waudo, J W Kimenju
Plant and Soil, :Jun 2006. Vol. 284, Iss. 1-2, p. 243-251
Keywords:Mucuna pruriens; Canavalia ensiformis; Intercropping; Pratylenchus zeae; Yields; Maize; Subsistence agriculture

SCIENCEDIRECT

513. Acylated protein derivatives of *Canavalia ensiformis* (jack bean): A study of functional characteristics/ O.S. Lawal, K.O. Adebowale
LWT - Food Science and Technology, Volume 39, Issue 8, October 2006, p. 918-929, ISSN 0023-6438
Key words: Canavalia ensiformis; Jack bean; Proximate analyses; Crude fat; Protein concentrates

2007
SCIENCEDIRECT

514. Starch digestibility and morphology of physically modified jack bean (*Canavalia ensiformis* L.) seed flours/ L. Sivol i…[*et al*.]
Animal Feed Science and Technology, Volume 136, Issues 3-4, 1 August 2007, p. 338-345, ISSN 0377-8401
Keywords: Jack bean; Canavalia ensiformis; Seeds starch; Digestibility; Starch digestion; Drying; Roasting; Nutritive value

2008
SCIENCEDIRECT

515. Stage-specific gut proteinases of the cotton stainer bug *Dysdercus peruvianus*: Role in the release of entomotoxic peptides from *Canavalia ensiformis* urease/ Angela R. Piovesan …[*et al*.]
Insect Biochemistry and Molecular Biology, Volume 38, Issue 11, November 2008, p. 1023-1032, ISSN 0965-1748
Keywords: Dysdercus peruvianus; Canavalia ensiformis, Proteolytic enzyme; Insecticidal peptide; Enzyme inhibitors; Toxicity

TEEAL

516. Changes in the relationship between soil erosion and N loss pathways after establishing soil conservation systems in uplands of Northeast Thailand/ Pansak-W. Hilger-T-H. Dercon-G. Kongkaew-T.
Agriculture, Ecosystems & Environment, 2008, 128 (3), p. 167-176
Keywords: Application rates; Cover crops; Crop yield; Hedgerow plants; Leaching; Losses from soil; Minimum tillage; Mountain areas; Nitrogen

517. Influence of P fertilization on biological nitrogen fixation in herbaceous legumes grown in acid savannah soils from the Tabasco State, Mexico/ Vera-Nunez-J-A. ...[*et al*.]
Journal of Sustainable Agriculture, 2008, 31 (3), p.s 25-42
Keywords: Acid soils; Green manures; Isotope dilution; Legumes; Maize; Nitrogen; Nitrogen fixation; Nodules; Phosphorus fertilizers; Pigeon peas; Savanna soils; Soil types

518. Phytomass yield of different cover crops and alterations in the microbial activity in a Cerrado soil in Brazil/ Carneiro-M-A-C. ...[*et al*.]
Bragantia, 2008, 67 (2), p. 455-462
Keywords: Biological activity in soil; Biomass; Biomass production; Cerrado; Cerrado soils; Cover crops; Crop yield; Decomposition; Flowers; Leaves; Microbia activities

2009
SCIENCEDIRECT

519. In vitro effect of *Canavalia ensiformis* urease and the derived peptide Jaburetox-2Ec on *Rhodnius prolixus* Malpighian tubules/ Fernanda Staniscuaski …[*et al*.]
Journal of Insect Physiology, Volume 55, Issue 3, March 2009, p. 255-263, ISSN 0022-1910
Keywords:Canavalia ensiformis; Seeds; In vitro experimentation; Rhodnius prolixus; Urease; Jaburetox 2Ec; Malpighian tubules

KORO WEDUS

2006
TEEAL

520. Cloning, restriction mapping and phylogenetic relationship of genomic components of MYMIV from *Lablab purpureus*/ Singh-S-K. …[*et al*.]
Bioresource Technology, 2006, 97 (15), p. 1807-1814
Keywords: Lablab purpureus; Nucleotide sequences; Open reading frames; Phylogenetics; Plant pathogens; Plant viruses

521. Distinct begomovirus causes Indian dolichos yellow mosaic disease/ Maruthi-M-N. …[*et al*.]
Plant Pathology, 2006, 55 (2), p. 290
Keywords: Disease transmission; Disease vectors; Plant

diseases; Plant pathogens; Plant viruses

522. Residual effects of cotton-based crop rotations on soil properties of irrigated Vertosols in central-western and north-western New South Wales/ Hulugalle-N-R. Weaver-T-B. Finlay-L-A *Australian Journal of Soil Research*, 2006, 44 (5), p. 467-477
Keywords: Application rates; Continuous cropping; Cotton; Cropping systems; Exchangeable sodium; Faba beans; Farming systems; Green manures; Irrigated farming

2007
TEEAL

523. Rapid decay of dolichos [*Lablab purpureus* (L.) Sweet] residue leads to loss of nitrogen benefit to succeeding maize (*Zea mays* L.)/ Cheruiyot E.K. ...[*et al*.] *Australian Journal of Experimental Agriculture*, 2007, 47 (8), p. 1000-1007
Keywords: **Lablab purpureus; Application rates; Cropping systems; Maize; Nitrogen fertilizers; Nutrient uptake; Phosphorus fertilizers; Plant residues; Potassium fertilizers**

2008
TEEAL

524. Influence of P fertilization on biological nitrogen fixation in herbaceous legumes grown in acid savannah soils from the Tabasco State, Mexico/ Vera-Nunez-J-A. ...[*et al*.] *Journal of Sustainable Agriculture*, 2008, 31 (3), p. 25-42
Keywords: Herbage crops; Phosphate fertilizers; Nitrogen fixation; Savannas; Mexico

525. Potential contribution of lablab residues to maize production in moist savanna of West Africa/Ewansiha-S-U. Tarawali-S-A. Odunze-A-C

Journal of Sustainable Agriculture, 2008, 32 (3), p. 393-406
Keywords: Lablab; Crop residues; Maize; Plant production; Savannas; West Africa

LEGUM
2006
PROQUEST

526. Aging in legume symbiosis: a molecular view on nodule senescence in *Medicago truncatula*1[W]/ Willem Van de Velde …[*et al*.].
Plant Physiology. Rockville:Jun 2006. Vol. 141, Iss. 2, p. 711-720
Keywords: Medicago truncatula; Legumes; Nodule senescence; Symbiosis; Aging

527. Antioxidant properties of some commonly consumed and underutilized tropical legumes/ Ganiyu Oboh
European Food Research and Technology = Zeitschrift für Lebensmittel-Untersuchung und -Forschung. A. Heidelberg:Nov 2006. Vol. 224, Iss. 1, p. 61-65
Keywords: Tropical legumes; Antioxidants

528. Biosynthesis of ascorbic acid in legume root nodules1/ Manuel A Matamoros …[*et al*.]
Plant Physiology. Rockville:Jul 2006. Vol. 141, Iss. 3, p. 1068-1077
Keywords: Legumes; Ascorbic acid; Biosynthesis; Root nodules

529. Biotechnology approaches to overcome biotic and abiotic stress constraints in legumes/ Miguel A Dita …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 1-24
Keywords: Legumes; Biotic; Abiotic; Stress; Biotechnology

530. Carboxylate release of wheat, canola and 11 grain legume species as affected by phosphorus status/ Stuart J Pearse …[*et*

al.]
Plant and Soil. The Hague:Oct 2006. Vol. 288, Iss. 1-2, p. 127-139
Keywords: Grain legumes; Wheats; Canola; Phosphorus status; Carboxylate release

531. Cereal grains and legumes in the prevention of coronary heart disease and stroke: a review of the literature/ I Flight, P Clifton
European Journal of Clinical Nutrition. London:Oct 2006. Vol. 60, Iss. 10, p. 1145-59
Keywords: Legumes; Cereal grains; Coronary heart disease; Stroke

532. Counteracting virulence mechanisms of grain legume pathogens/ Richard N Strange
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 49-65
Keywords:Grain legumes; Pathogenicity; Virulence mechanisms

533. Distribution of carboxylates and acid phosphatase and depletion of different phosphorus fractions in the rhizosphere of a cereal and three grain legumes/ Mohammad Nuruzzaman …[*et al*.]
Plant and Soil. The Hague:Mar 2006. Vol. 281, Iss. 1-2, p. 109-120
Keywords: Grain legumes; Carboxylates; Acid phosphate; Phosphorus fractions; Distribution; Rhizosphere

534. Diversity and relationships of bradyrhizobia from legumes native to eastern North America/ Matthew A Parker, David A Kennedy.
Canadian Journal of Microbiology. Ottawa:Dec 2006. Vol. 52, Iss. 12, p. 1148-1157
Keywords:Legumes; Bradyrhizobium; Diversity; North America

535. Effect of mixing prunings of two tropical shrub legumes (*Calliandra houstoniana* and *Indigofera zollingeriana*) with contrasting quality on N release in the soil and apparent n

degradation in the rumen/ K Tscherning …[*et al*.]
Plant and Soil. The Hague:Feb 2006. Vol. 280, Iss. 1-2, p. 357-368
Keywords: Legumes; Calliandra houstoniana; Indigofera zollingeriana; Pruning; Nitrogen release; Nitrogen degradation; Rumen

536. Effects of endogenous salicylic acid on nodulation in the model legumes *Lotus japonicus* and *Medicago truncatula1[W]*/Gary Stacey …[*et al*.]
Plant Physiology. Rockville:Aug 2006. Vol. 141, Iss. 4, p. 1473-1481
Keywords: Legumes; Lotus japonicus; Medicago truncatula; Salicylic acid; Nodulation

537. Growth and ion relations in response to combined salinity and waterlogging in the perennial forage legumes *Lotus corniculatus* and *Lotus tenuis*/ N L Teakle, D Real, T D Colmer.
Plant and Soil. The Hague:Nov 2006. Vol. 289, Iss. 1-2, p. 369-383
Keywords: Legumes; Lotus corniculatus; Lotus tenuis; Perennial forage; Growth; Salinity; Waterlogging

538. Integrated pearl millet management in the sahel: effects of legume rotation and fallow management on productivity and *Striga hermonthica* infestation/ O. Samaké …[*et al*.]
Plant and Soil. The Hague:Aug 2006. Vol. 286, Iss. 1-2, p. 245-257
Keywords: Legumes; Rotation; Striga hermonthica; Pearl millet; Fallow management; Productivity

539. Isolation of mtpim proves Tnt1 a useful reverse genetics tool in *Medicago*
truncatula and uncovers new aspects of ap1-like functions in legumes1/ Reyes Benlloch … [*et al*.]
Plant Physiology. Rockville:Nov 2006. Vol. 142, Iss. 3, p. 972-983
Keywords: Legumes; Medicago truncatula; Reverse genetics; Isolation

540. LegumeDB1 bioinformatics resource: comparative genomic analysis and novel cross-genera marker identification in lupin and pasture legume species/ P. Moolhuijzen …[*et al*.]
Genome. Ottawa:Jun 2006. Vol. 49, Iss. 6, p. 689-699
Keywords: Legumes; Lupin; Bioinformatics resources; Genomic analysis; Genetic markers; dentification

541. *Lotus japonicus* nodulation requires two GRAS domain regulators, one of
which is functionally conserved in a non-legume1[C][W]/ Anne B Heckmann …[*et al*.]
Plant Physiology. Rockville:Dec 2006. Vol. 142, Iss. 4, p. 1739-1750
Keywords:Legumes; Lotus japonicus; Nodulation; Regulations

542. Molecular characterization of a collection of the tropical multipurpose shrub legume *Flemingia macrophylla*/ Meike S Andersson …[*et al*.]
Agroforestry Systems. The Hague:Nov 2006. Vol. 68, Iss. 3, p. 231-245
Keywords: Flemingia macrophylla; Molecular characterization; Shrub legume; Collection

543. Nitrogen fixation of faba bean (*Vicia faba* L.) interacting with a non-legume in two contrasting intercropping systems/ Fenliang Fan …[*et al*.]
Plant and Soil. The Hague:May 2006. Vol. 283, Iss. 1-2, p. 275-286
Keywords: Faba beans; Vicia faba; Nitrogen fixation; Legumes; Intercropping

544. Nodulation of the legume *Pterocarpus indicus* by diverse strains of rhizobia/ E H Lok, G O'Hara, B Dell
Journal of Tropical Forest Science. Kuala Lumpur:Jul 2006.

Vol. 18, Iss. 3, p. 188-194
Keywords:Legumes; Pterocarpus indicus; Nodulation; Rhizobia

545. Oligosaccharide content and composition of legumes and their reduction by soaking, cooking, ultrasound, and high hydrostatic pressure/ In Hwa Han, Byung-Kee Baik
Cereal Chemistry. St. Paul:Jul/Aug 2006. Vol. 83, Iss. 4, p. 428-433
Keywords: Legumes; Oligosaccharide content; Composition; Soaking; Cooking; Hydrostatic pressure

546. Performance of irrigated tall fescue-legume communities under two grazing frequencies in the Southern Rocky mountains, USA/ Leonard M Lauriault…[*et al*.]
Crop Science. Madison:Jan/Feb 2006. Vol. 46, Iss. 1, p. 330-336
Keywords: Legumes; Tall fescue; Grazing frequencies, Plant performance

547. Phenological, agronomic and forage quality diversity among germplasm accessions of the tropical legume shrub *Cratylia argentea*/ M S Andersson …[*et al*.]
Journal of Agricultural Science. Cambridge:Jun 2006.Vol. 144, Part 3 p. 237-248
Keywords: Tropical legumes; Cratylia argentea; Germplasm; Agronomic characters; Forage quality

548. Phosphorus benefits from grain-legume crops to subsequent maize grown on acid soils of Southern Cameroon/ M Jemo…[*et al*.].
Plant and Soil. The Hague:Jun 2006. Vol. 284, Iss. 1-2, p. 385-397
Keywords: Grain legumes; Maize; Phosphorus benefits; Acid soils

549. Proteomics: a promising approach to study biotic interaction in legumes. A review/ J V Jorrín …[*et al*.]

Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 37-47
Keywords: L**egumes; Biotic interaction**

550. Proximate, minerals and antinutritional factors of some underutilized grain legumes in south-western Nigeria/ S B Fasoyiro …[*et al*.]
Nutrition and Food Science. Bradford:2006. Vol. 36, Iss. 1, p. 18-23
Keywords: Grain legumes; Minerals; Proximate composition; Antinutritional factors; Nigeria

551. Resistance to insect pests: What do legumes have to offer?/ Owain Edwards, Karam B Singh
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 273-285
Keywords: Legumes; Pest insects; Pest resistance

552. Rock phosphate-P enhances biomass and nitrogen accumulation by legumes in upland crop production systems in humid West Africa/ Eklou A Somado, Kanwar L Sahrawat, Ronald F Kuehne.
Biology and Fertility of Soils. Berlin:Oct 2006. Vol. 43, Iss. 1, p.124-130
Keywords: Legumes; Rock phosphate; Biomass; Nitrogen accumulation; Crop production; Uplands

553. Screening techniques and sources of resistance against parasitic weeds in grain legumes/ Diego Rubiales …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 187-199
Keywords: Grain legumes; Parasitic weeds; Screening techniques; Plant resistance

554. Screening techniques and sources of resistance to abiotic stresses in cool-season food legumes/ F L Stoddard …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 167-186
Keywords: Food legumes; Abiotic stress; Cool season; Screening techniques; Plant resistance

555. Screening techniques and sources of resistance to foliar diseases caused by major necrotrophic fungi in grain legumes/ Bernard

Tivoli…[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 223-253
Keywords:Grain legumes; Necrotrophic fungi; Screening techniques; Foliar disease; Disease resistance

556. Screening techniques and sources of resistance to root diseases in cool season food legumes/ Alessandro Infantino …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 201-221
Keywords: Food legumes; Root disease; Cool season; Screening techniques; Disease resistance

557. Screening techniques and sources of resistance to rusts and mildews in grain legumes/ J C Sillero …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 255-272
Keywords: Grain legumes; Screening techniques; Rusts; Mildews; Disease resistance

558. Seeding rate affects establishment of native perennial legumes in the upper midwestern US/ Jason A Fischbach …[*et al*.]
Native Plants Journal. Moscow:Spring 2006. Vol. 7, Iss. 1, p. 61-68
Keywords: Perennial legumes; Sowing rates

559. Signaling and gene expression for water-tolerant legume nodulation/ Griet Den Herder …[*et al*.]
Critical Reviews in Plant Sciences. Boca Raton:2006. Vol. 25, Iss. 4, p. 367-380
Keywords: Legumes; Root nodulation; Gene expression; Water tolerance

560. Somatic embryogenesis and plant regeneration from cotyledonary explants of green gram [V*igna radiata* (l.) Wilezek.] - a recalcitrant grain legume/ C P Kaviraj …[*et al*.]
In Vitro Cellular & Developmental Biology.: Plant Columbia:Mar/Apr 2006. Vol. 42, Iss. 2, p. 134-138
Keywords:Vigna radiata; Grain legumes; Somatic embryogenesis; Plant regeneration; Cotyledonary explants

561. Tracing nonlegume orthologs of legume genes required for

nodulation and arbuscular mycorrhizal symbioses/ Hongyan Zhu …[*et al*.]
Genetics. Bethesda:Apr 2006. Vol. 172, Iss. 4, p. 2491-2499
Keywords: Legumes; Genes; Root nodulation; Arbuscular mycorrhizal symbiosis

562. Transcriptomic approaches to unravel plant-pathogen interactions in legumes/ Carine Ameline-Torregrosa …[*et al*.]
Euphytica. Dordrecht:Jan 2006. Vol. 147, Iss. 1-2, p. 25-36
Keywords: Legumes; Trancriptomic approaches; Plant pathogens

563. Transposable element landscape of the model legume *Lotus japonicus*/ Dawn Holligan …[*et al*.]
Genetics. Bethesda:Dec 2006. Vol. 174, Iss. 4, p. 2215-2228
Keywords: Lotus japonicus; Legumes; Models; Landscape

SCIENCEDIRECT

564. Frost resistance and biochemical changes during cold acclimation in different annual legumes/Marta Hekneby, M. Carmen Antolin, Manuel Sanchez-Diaz
Environmental and Experimental Botany, Volume 55, Issue 3, March 2006, p. 305-314, ISSN 0098-8472
Keywords: Annual legumes; Cold acclimation; Freezing tolerance; Regrowth capacity; Sucrose synthesis

565. Genetic and genomic analysis of legume flowers and seeds/ Claire Domoney…[*et al*.]
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model legumes / edited by Nevin D Young and Randy C Shoemaker; Part 2: Maize genomics / edited by Susan R Wessler.
Plant biotechnology / edited by John Salmeron and Luis R Herrera-Estrella, April 2006, p. 133-141, ISSN 1369-5266

Keywords: Seed production; Genetic analysis; Genomic analysis; Microarrays; Legumes

566. Genetic resources, chromosome engineering, and crop improvement series, Grain legumes Volume 1/ Ervin Balazs
South African Journal of Botany, Volume 72, Issue 3, August 2006, p. 485, ISSN 0254-6299
Keywords: Genetic resources; Grain legumes; Chromosomes

567. Genetics and functional genomics of legume nodulation/ Gary Stacey …[*et al*.]
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model legumes / edited by Nevin D Young and Randy C Shoemaker; Part 2: Maize genomics, April 2006, p. 110-121, ISSN 1369-5266
Keywords: Soil bacteria ; Rhizobiaceae; Phylogenetic family; Agronomic importance; Nitrogen fertilizers; Soybeans; Alfalfa; Adoption; Genetic models

568. Genome studies and molecular genetics: part 1 model legumes exploring the structure, function and evolution of legume genomes/ Nevin D Young, Randy C Shoemaker
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model, April 2006, p. 95-98, ISSN 1369-5266
Keywords: Molecular genetics; Legumes; Genomes; Evolution

569. Growth and stress conditions cause similar changes in xylem amino acids for different legume species/L. do Amarante, J.D. Lima, L. Sodek
Environmental and Experimental Botany, Volume 58, Issues 1-3, December 2006, p. 123-129, ISSN 0098-8472
Keywords: Legumes; Species; Xylem; Nitrogen fixation; Nitrate assimilation

570. Legume comparative genomics: progress in phylogenetics and

phylogenomics/ Quentin Cronk, Isidro Ojeda, R Toby Pennington
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model legumes April 2006, p. 99-103, ISSN 1369-5266
Keywords: Leguminosae; Morphological diversity; Genomic data; Legumes

571. Long-term effects of improved legume fallows on soil invertebrate macrofauna and maize yield in eastern Zambia/ G. Sileshi, P.L. Mafongoya
Agriculture, Ecosystems & Environment, Volume 115, Issues 1-4, July 2006, p. 69-78, ISSN 0167-8809
Keywords: Agroforestry; Legume fallows; Maize; Macrofauna

572. *Lotus japonicus* as a platform for legume research/ Shusei Sato, Satoshi Tabata
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model April 2006, p. 128-132, ISSN 1369-5266
Keywords: Lotus japonicus; Legumes; Genetics; Genomes

573. N:P stoichiometry of cereal, grain legume and oilseed crops/ Victor O. Sadras
Field Crops Research, Volume 95, Issue 1, 8 January 2006, p. 13-29, ISSN 0378-4290
Keywords: Multiple stresses; Colimitation; Nitrogen fertilizers; Phytin; Proteins; Yields

574. Novel paralogous gene families with potential function in legume nodules and seeds/ Kevin AT Silverstein ...[*et al*.]
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model legumes April 2006, p. 142-146, ISSN 1369-5266
Keywords: Rhizobiaceae; Genes; Legumes; Seeds; Nodules

575. Paleopolyploidy and gene duplication in soybean and other

legumes/ Randy C Shoemaker, Jessica Schlueter, Jeff J Doyle
Current Opinion in Plant Biology, Volume 9, Issue 2, Genome studies and molecular genetics: Part 1: Model April 2006, p. 104-109, ISSN 1369-5266
Keywords: Gene evolution; Important observations; Chromosomes; Legumes; Soybeans

576. Radiation interception and radiation use efficiency of three grain legumes under water deficit conditions in a semi-arid environment/ K. Tesfaye, S. Walker, M. Tsubo
European Journal of Agronomy, Volume 25, Issue 1, July 2006, p. 60-70, ISSN 1161-0301
Keywords: Grain legumes; Semi arid environment; Water deficit; Canopy development; Radiation use efficiency

2007
PROQUEST

577. Assessment of different legumes for the control of striga hermonthica in maize and sorghum/ Zeyaur R Khan …[*et al*.]
Crop Science. Madison:Mar/Apr 2007. Vol. 47, Iss. 2, p. 730-736
Keywords:Maize; Sorghum; Striga hermonthica; Legumes; Weed control

578. Combining ability of binary mixtures of introduced, cool- and warm-season grasses and legumes/ T L Springer, R L Gillen, R W McNew
Crop Science. Madison:Nov/Dec 2007. Vol. 47, Iss. 6, p. 2540-2546
Keywords:Legumes; Grasses; Combining ability; Binary mixtures; Cold season; Warm season

579. Compound leaf development and evolution in the legumes(W)/ Connie E M Champagne ...[*et al*.]
Plant Cell. Rockville:Nov 2007. Vol. 19, Iss. 11, p. 3369-3378
Keywords:Legumes; Evolution; Leaf development

580. Diagnostics, genetic diversity and pathogenic variation of ascochytablight of cool season food and feed legumes/ Paul W J Taylor, Rebecca Ford.
European Journal of Plant Pathology. Dordrecht:Sep 2007. Vol. 119, Iss. 1, p. 127-133
Keywords: Feed legumes; Genetic diversity; Pathogenic variation; Ascochyta blight; Cold season

581. Early steps in proanthocyanidin biosynthesis in the model legume *Medicago truncatula*1 [W][OA]/ Yongzhen Pang ...[*et al*.]
Plant Physiology. Rockville:Nov 2007. Vol. 145, Iss. 3, p. 601-605
Keywords: Legumes; Medicago truncatula; Models; Flavonoids; Biosynthesis

582. Economic potential and farmer perceptions of herbaceous legume fallows in Ghana/ Beatrice darko Obiri …[*et al*.]
Experimental Agriculture. Cambridge:Jul 2007. Vol. 43, Iss. 3, p. 269-287
Keywords: Herbaceous legume; Economic potential; Farmer perceptions; Ghana

583. Effect of legume species introduction to early abandoned field on vegetation development/ Jin-Hua Li …[*et al*.]
Plant Ecology. Dordrecht:Jul 2007. Vol. 191, Iss. 1, p. 1-9
Keywords: Legumes; Plant introduction; Vegetation development

584. Evolution of compound leaf development in legumes: evidence for overlapping roles of KNOX1 and FLO/LFY Genes/ Nancy A Eckardt
Plant Cell. :Nov 2007. Vol. 19, Iss. 11, p. 3315-3316
Keywords:Legumes; Leaf development; Evolution; Overlapping roles; Genes

585. Formation of the productivity of a legume-grass mixture under conditions of agrolandscapes in the central region of the non-

Chernozem Zone of the Russian federation/ N G Kovalev …[*et al*.]
Russian Agricultural Sciences. Dordrecht:Apr 2007. Vol. 33, Iss. 2, p. 97-99
Keywords:Legumes; Formation; Productivity; Agrolandscapes

586. Fungal symbiosis in rice requires an ortholog of a legume common symbiosis gene encoding a Ca^sup 2+^/Calmodulin-Dependent Protein Kinase1[OA]/ Caiyan Chen …[*et al*.]
Plant Physiology. Rockville:Dec 2007. Vol. 145, Iss. 4, p. 1619-1628
Keywords: Legumes; Gene encoding; Fungal symbiosis; Protein kinase

587. Genetic diversity within *Lablab purpureus* and the application of gene-specific markers from a range of legume species/ S C Venkatesha, ...(*et al*.)
Plant Genetic Resources. Cambridge:Dec 2007. Vol. 5, Iss. 3, p. 154-171
Keywords: Legumes; Lablab purpureus; Genetic diversity; Gene specific marker

588. Genome sequencing and genome resources in model legumes/ Shusei Sato …[*et al*.]
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 5885-93
Keywords: Legumes; Genomes; Genome sequencing

589. Genomes of the symbiotic nitrogen-fixing bacteria of legumes1/ Allyson M MacLean, Turlough M Finan, Michael J Sadowsky
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 615-622
Keywords: Legumes; Genomes; Nitrogen fixing bacteria

590. Genome-wide identification and characterization of putative cytochrome P450 genes in the model legume *Medicago*

truncatula/ Lingyong Li …[*et al*.]
Planta. Berlin:Jun 2007. Vol. 226, Iss. 1, p. 109-123
Keywords: Legumes; Models; Medicago truncatula; Cytochrome P450; Genes

591. Genomic and genetic control of phosphate stress in legumes1 mesfin tesfaye/ Junqi Liu, Deborah L Allan, Carroll P Vance
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 594-603
Keywords: Legumes; Genetic control; Phosphate stress; Genomic control

592. Grain legumes in Northern Great Plains: impacts on selected biological soil processes/ Newton Z Lupwayi, Ann C Kennedy
Agronomy Journal. Madison:Nov/Dec 2007. Vol. 99, Iss. 6, p. 1700-1709
Keywords: Grain legumes; Soil biology; Northern great plains

593. Identification of *Pratylenchus thornei*, the cereal and legume root-lesion nematode, based on SCAR-PCR and satellite DNA/ S Carrasco-Ballesteros …[*et al*.]
European Journal of Plant Pathology. Dordrecht:Jun 2007. Vol. 118, Iss. 2, p. 115-125
Keywords: Legumes; Cereals; Pratylenchus thornei; Identification; Satellites; DNA; Root lesion Nematode

594. Interseeding novel cool-season annual legumes to improve bermudagrass paddocks/ S C Rao …[*et al*.]
Crop Science. Madison:Jan/Feb 2007. Vol. 47, Iss. 1, p. 168-173
Keywords:Legumes; Cynodon dactylon; Paddocks; Oversowing

595. Involvement of a soybean atp-binding cassette-type transporter in the secretion of genistein, a signal flavonoid in legume-rhizobium symbiosis1/ Akifumi Sugiyama, Nobukazu Shitan, Kazufumi Yazaki

Plant Physiology. Rockville:Aug 2007. Vol. 144, Iss. 4, p. 2000-2008
Keywords:Legumes; Rhizobium; Symbiosis; Soybeans; Flavonoids

596. Landmark research in legumes/ R J Singh, G H Chung, R L Nelson
Genome. Ottawa:Jun 2007. Vol. 50, Iss. 6, p. 525-537
Keywords: Legumes; Landmark; Research

597. Legume evolution: where do nodules and mycorrhizas fit in?1/ Janet I Sprent, Euan K James
Plant Physiology. Rockville:Jun 2007.Vol. 144, Iss. 2, p. 575-81
Keywords:Legumes; Evolution; Nodules; Mycorrhizae

598. Legume transcription factors: global regulators of plant development and response to the environment1[W]/ Michael K Udvardi …[*et al*.]
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 538-549
Keywords:Legumes; Transcription factors; Global regulator; Plant development; Plant response

599. Long-term yield sustainability and financial returns from grain legume-maize intercrops on a sandy soil in subhumid north central Zimbabwe; Grain legume-maize intercrops in Zimbabwe/ S. R. Waddington ...[*et al*.]
Experimental Agriculture. Cambridge:Oct 2007. Vol. 43, Iss. 4, p. 489-503
Keywords:Grain legumes; Maize; Intercropping; Sandy soils; Long term yield; Financial returns; Zimbabwe

600. Medicago truncatula as a model for nonhost resistance in legume-parasitic plant interactions1[C]/M Dolores Lozano-Baena, Elena Prats, M Teresa Moreno
Plant Physiology. Rockville:Oct 2007. Vol. 145, Iss. 2, p.

437-449
Keywords:Medicago truncatula; Legumes; Parasitic plants; Models; Non host resistance

601. Modelling of planted legume fallows in Western Kenya using WaNuLCAS. (I) model calibration and validation/ A P Walker …[*et al*.]
Agroforestry Systems. The Hague:Jul 2007. Vol. 70, Iss. 3, p. 197-209
Keywords:Legumes; Fallow; Models; Standardizing; Kenya

602. Niche-based assessment of contributions of legumes to the nitrogen economy of Western Kenya smallholder farms/ John O Ojiem …[*et al*.]
Plant and Soil. The Hague:Mar 2007. Vol. 292, Iss. 1-2, p. 119-135
Keywords: Legumes; Nitrogen economy; Small farms; Kenya

603. Novel family of lectins evolutionarily related to class v chitinases: an example of neofunctionalization in legumes1[W][OA]/ Els J M Van Damme …[*et al*.]
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 662-672
Keywords:Legumes; Lectins; Chitinase; Neofunctionalization

604. Participatory research on legume diversification with malawian smallholder farmers for improved human nutrition and soil fertility; Smallholder diversification with legumes/ Rachel bezner kerr ...[*et al*.]
Experimental Agriculture. Cambridge:Oct 2007. Vol. 43, Iss. 4, p. 437-453
Keywords:Legumes; Diversification; Small farms; Human nutrition; Soil fertility

605. Phytochelatin synthases of the model legume lotus japonicus. a

small multigene family with differential response to cadmium and alternatively spliced variants1[OA]/ Javier Ramos …[*et al*.]
Plant Physiology. Rockville:Mar 2007. Vol. 143, Iss. 3, p. 1110-1118
Keywords:Legumes;Models; Lotus japonicus; Cadmium; Phytochelating

606. Productivity and residual benefits of grain legumes to sorghum under semi-arid conditions in southwestern Zimbabwe/ Bongani Ncube …[*et al*.]
Plant and Soil. The Hague:Oct 2007. Vol. 299, Iss. 1-2, p. 1-15
Keywords: Grain legumes; Sorghum; Productivity; Residual benefits; Zimbabwe

607. Protein digestibility of selected legumes treated with ultrasound and high hydrostatic pressure during soaking/ In Hwa Han, Barry G Swanson, Byung-Kee Baik
Cereal Chemistry. St. Paul:Sep/Oct 2007. Vol. 84, Iss. 5, p. 518-525
Keywords:Legumes; Protein digestibility; Ultrasonic; High hydrostatic pressure; Soaking

608. Rapid plant regeneration through in vitro axillary shoot proliferation of butterfly pea (*Clitoria ternatea* L.)-a twinning legume/ D P Barik …[*et al*.]
In Vitro Cellular & Developmental Biology.: Plant Columbia:Mar/Apr 2007. Vol. 43, Iss. 2, p. 144-148
Keywords:Clitoria ternatea; Twinning legumes; Butterfly pea; In vitro; Plant regeneration; Shoot proliferation

609. Recent advances in legume-microbe interactions: recognition, defense response, and symbiosis from a genomic perspective1/ Deborah A Samac, Michelle A Graham
Plant Physiology. :Jun 2007. Vol. 144, Iss. 2, p. 582-587
Keywords:Legumes; Microorganisms; Symbiosis; Genomes

610. Resistance to Ascochyta blights of cool season food legumes/ Fred J Muehlbauer, Weidong Chen
European Journal of Plant Pathology. Dordrecht:Sep 2007. Vol. 119, Iss. 1, p. 135-141
Keywords: Legumes; Ascochyta; Blight; Disease resistance; Cool season

611. Role of host specificity in the speciation of Ascochyta pathogens of cool season food legumes/ Tobin L Peever
European Journal of Plant Pathology. Dordrecht:Sep 2007. Vol. 119, Iss. 1, p. 119-126
Keywords:Legumes; Ascochyta; Host specificity; Cool season

612. Symbiotic plant peroxidase involved in bacterial invasion of the tropical legume *Sesbania rostrata* [C][W][OA]/ Jeroen Den Herder …[*et al*.]
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 717-727
Keywords:Sesbania rostrata; Tropical legumes; Peroxidases; Bacterial invasion

613. Sympatric ascochyta pathosystems of near eastern legumes, a key for better understanding of pathogen biology/ S Abbo…[*et al*.]
European Journal of Plant Pathology. Dordrecht:Sep 2007. Vol. 119, Iss. 1, p. 111-118
Keywords:Legumes; Ascochyta; Pathosystems; Pathogen biology

614. Translocation in legumes: assimilates, nutrients, and signaling molecules1/ Craig Anthony Atkins, Penelope Mary Collina Smith
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p.

550-561 .)
Keywords:Legumes; Assimilates; Nutrients; Signaling molecules

615. Using genomics to study legume seed development1/ Brandon H Le …[*et al*.]
Plant Physiology. Rockville:Jun 2007. Vol. 144, Iss. 2, p. 562-574
Keywords:Legumes; Seed development; Genomes

SCIENCEDIRECT

616. Broad screening of the legume family for variability in seed insecticidal activities and for the occurrence of the A1b-like knottin peptide entomotoxins/ Sandrine Louis…[*et al*.]
Phytochemistry, Volume 68, Issue 4, February 2007, p. 521-535, ISSN 0031-9422
Keywords: Leguminosae; Fabaceae; Albumins 1b; PA1b; Insects; Weevil; Plant defence; Toxin; Cystine knot peptide

617. Different Mesorhizobium species sharing the same symbiotic genes nodulate the shrub legume *Anagyris latifolia*/ Javier Donate-Correa …[*et al*.]
Systematic and Applied Microbiology, Volume 30, Issue 8, 6 December 2007, p. 615-623, ISSN 0723-2020
Keywords: Nodulation; Legumes; Mesorhizobium; Anagyris latifolia; Phylogeny; Ribosomal genes; Canary Islands

618. Distinct, crucial roles of flavonoids during legume nodulation/ Senthil Subramanian/ Gary Stacey, Oliver Yu
Trends in Plant Science, Volume 12, Issue 7, July 2007, p. 282-285, ISSN 1360-1385
Keywords: Medicago truncatula; Indeterminate legumes; Soybeans; Genetic evidence; Flavonoids; Nodulation

619. Early legume responses to inoculation with *Rhizobium* sp.

NGR234/ N.M. Boukli …[*et al*.]
Journal of Plant Physiology, Volume 164, Issue 6, 4 June 2007, p. 794-806, ISSN 0176-1617
Keywords:ATP-ases; Plasma membranes; Receptor kinases; Symbiosis; Vigna unguiculata; Inoculation; Rhizobium

620. Evaluating sustainable and profitable cropping sequences with cassava and four legume crops: effects on soil fertility and maize yields in the forest/savannah transitional agro-ecological zone of Ghana/ S. Adjei-Nsiah …[*et al*.]
Field Crops Research, Volume 103, Issue 2, 30 August 2007, p. 87-97, ISSN 0378-4290
Keywords:Cassava; Cropping sequence; Rotation; Nitrogen; Pigeonpea; Speargrass; Return on investment; Soil fertility; Maize

621. Identification and expression regulation of symbiotically activated legume genes/ Helge Kuster …[*et al*.]
Phytochemistry, Volume 68, Issue 1, Molecular Basics of Mycorrhizal Symbiosis, January 2007, p. 8-18, ISSN 0031-9422
Keywords: Medicago truncatula; Vicia faba; Arbuscular mycorrhiza; In silico transcriptome profiling; Microarray based expression profiling; Promoter analysis; Root nodules; Symbiosis genes; Transgenic hairy roots

622. Incorporating vernalization response functions into an additive phenological model for reanalysis of the flowering data of annual pasture legumes/ De Li Liu
Field Crops Research, Volume 101, Issue 3, 15 March 2007, p. 331-342, ISSN 0378-4290
Keywords:Vernalization; Photoperiod; Temperature; Annual pasture legumes; Modelling; Cross validation

623. Intercropping with cereals reduces infection by Orobanche crenata in legumes/ Monica Fenandez-Aparicio, Josefina C. Sillero, Diego Rubiales
Crop Protection, Volume 26, Issue 8, August 2007, p. 1166-1172, ISSN 0261-2194
Keywords: Allelopathy; Broomrape; Faba beans; Germination; Intercropping; Peas; Oats;

Orobanche crenata

624. Legume cover crops as living mulches for winter wheat: Components of biomass and the control of weeds/ Jurg Hiltbrunner …[*et al*.]
European Journal of Agronomy, Volume 26, Issue 1, January 2007, p. 21-29, ISSN 1161-0301
Keywords: Cover crops; Legumes; Living mulch; Organic farming; Weeds; Winter wheat

625. Legumes of the world/ Trevor J. Edwards
South African Journal of Botany, Volume 73, Issue 2, April 2007, p. 272-273, ISSN 0254-6299
Keywords: Legumes

626. New annual and short-lived perennial pasture legumes for Australian agriculture--15 years of revolution/ P.G.H. Nichols …[*et al*.]
Field Crops Research, Volume 104, Issues 1-3, `Ground-breaking Stuff'- Proceedings of the 13th Australian Society of Agronomy Conference, 10-14 September 2006, Perth, Western Australia, October-December 2007, p. 10-23, ISSN 0378-4290
Keywords:Pasture legumes; Plant breeding; Cultivars; Crop rotation; Nitrogen fixation

627. Nitrogen transfer from a legume tree to the associated grass estimated by the isotopic signature of tree root exudates: A comparison of the 15N leaf feeding and natural 15N abundance methods/ J. Sierra …[*et al*.]
European Journal of Agronomy, Volume 27, Issues 2-4, October 2007, p. 178-186, ISSN 1161-0301
Keywords: Agroforestry; Box model; Gliricidia sepium; 15N fractionation; Root turnover; Pruning

628. Nodulation deficiency caused by fast neutron mutagenesis of the model legume *Lotus japonicus*/ Dana Hoffmann …[*et al*.]
Journal of Plant Physiology, Volume 164, Issue 4, 5 April 2007, p. 460-469, ISSN 0176-1617
Keywords:Nitrogen fixation; Receptor; Rhizobium; Symbiosis; Lotus japonicus; Nodulation

629. Reaction of microorganisms to rewetting in continuous cereal and legume rotation soils of semi-arid Sub-Saharan Africa/ Beate Formowitz …[*et al*.]
Soil Biology and Biochemistry, Volume 39, Issue 7, July 2007, p. 1512-1517, ISSN 0038-0717
Keywords: Adenylates; Ergosterol; Glucosamine; Muramic acid; Microbial biomass; CO2 evolution rate

2008
PROQUEST

630. Adaptation of cool-season grain legume species across climatically-contrasting environments of Southern Europe/ P Annicchiarico.
Agronomy Journal. Madison:Nov/Dec 2008. Vol. 100, Iss. 6, p. 1647-1654
Keywords:Legumes; Adaptation; Cold season

631. Characterization of trimeric acetylcholinesterase from a legume plant, *Macroptilium atropurpureum* Urb/ Kosuke Yamamoto, Suguru Oguri, Yoshie S Momonoki
Planta. Berlin:Mar 2008. Vol. 227, Iss. 4, p. 809-822
Keywords:Macroptilium atropurpureum; Legumes; Acetylcholinesterase

632. Clever cutting and legumes keep costs down/ Sarah Trickett
Farmers Weekly. Sutton:May 2, 2008. Vol. 148, Iss. 18, p. 40-41
Keywords: Legumes; Grasses; Forage; Nutritive value

633. Comparing relative feed value with degradation parameters of grass and legume forages1/ T J Hackmann, J D Sampson, J N Spain
Journal of Animal Science. Savoy:Sep 2008. Vol. 86, Iss. 9, p. 2344-2356
Keywords:Legumes; Grasses; Forage; Nutritive value

634. Cross-pathogenicity of *Rhizoctonia solani* strains on pasture legumes in pasture-crop rotations/ Ming Pei You …[*et al*.]
Plant and Soil. The Hague:Jan 2008. Vol. 302, Iss. 1-2, p. 203-211
Keywords: Legumes; Pastures; Rhizoctonia solani; Crop rotation; Pathogenicity

635. Dietary fibre and fermentability characteristics of root crops and legumes/ Aida C Mallillin ...[*et al*.]
British Journal of Nutrition. Cambridge:Sep 2008. Vol. 100, Iss. 3, p. 485-488
Keywords:Legumes; Root crops; Dietary fibres; Fermentability

636. Effect feeding forage legumes as nitrogen supplement on growth performance of sheep/ J J Baloyi, N T Ngongoni, H Hamudikuwanda
Tropical Animal Health and Production. Dordrecht:Aug 2008. Vol. 40, Iss. 6, p. 457-462
Keywords:Legumes; Forage; Nitrogen; Supplements; Sheep; Growth; Animal performance

637. Effect of legume dietary fiber on rat disaccharidase activity *in vitro*/ Ramón Benito Infante…[*et al*.]
Nutrition and Food Science. Bradford:2008. Vol. 38, Iss. 4, p. 316-324
Keywords:Legumes; Dietary fibres; Rats; Oligosaccharides

638. Effect of nitrogen application on yield and quality of silage corn after forage legume-grass/ J R Lawrence, Q M Ketterings, J H Cherney
Agronomy Journal. Madison:Jan/Feb 2008. Vol. 100, Iss. 1, p. 73-79
Keywords:Legumes; Forage; Maize; Silage; Nitrogen; Yields; Quality

639. Grain legume-cereal intercropping: practical application of diversity, competition and facilitation in arable and organic cropping systems/ Henrik Hauggaard-Nielsen …[*et al*.]
Agriculture and Food Systems.: Researching Sustainable Agricultural Systems, ISOFAR 2005 Cambridge:Mar 2008. Vol.

23, Iss. 1, p. 3-12
Keywords:Legumes; Cereals; Intercropping; Plant competition; Organic farming

640. Harvest techniques change annual warm-season legume forage yield and nutritive value/ James P Muir …[*et al*.]
Agronomy Journal. Madison:May/Jun 2008. Vol. 100, Iss. 3, p. 765-770
Keywords:Legumes; Forage; Harvesting; Yields; Nutritive value

641. Intake of vegetables, legumes, and fruit, and risk for all-cause, cardiovascular, and cancer mortality in a european diabetic population1,2/ Ute Nöthlings …[*et al*.]
Journal of Nutrition. :Apr 2008. Vol. 138, Iss. 4, p. 775-781
Keywords:Legumes; Vegetables; Food intake; Cardiovascular diseases; Cancer; Mortality

642. Integration of cool-season annual legumes and dairy manure compost with switchgrass/ J Randal Bow …[*et al*.]
Crop Science. Madison:Jul/Aug 2008. Vol. 48, Iss. 4, p. 1621
Keywords:Legumes; Cold season; Farmyard manure; Composts

643. Interactions in decomposition and N mineralization between tropical legume residue components/ Srisuda Thippayarugs …[*et al*.]
Agroforestry Systems. The Hague:Feb 2008. Vol. 72, Iss. 2, p. 137-148
Keywords:Legumes; Nitrogen; Mineralization; Decomposition; Plant residues

644. Intercropping spring wheat with cereal grains, legumes, and oilseeds fails to improve productivity under organic management/ Jacqueline C Pridham, Martin H Entz
Agronomy Journal. Madison:Sep/Oct 2008. Vol. 100, Iss. 5, p. 1436-1442
Keywords: Legumes; Cereals; Intercropping; Oilseeds; Productivity; Organic farming

645. Legume defoliation affects rhizosphere decomposers, but not the uptake of organic matter N by a neighbouring grass/ S Saj, J Mikola, F Ekelund
Plant and Soil. The Hague:Oct 2008. Vol. 311, Iss. 1-2, p. 141-149
Keywords: Legumes; Defoliation; Rhizosphere; Organic matter; Nutrient uptake; Nitrogen

646. Meta-analysis of maize yield response to woody and herbaceous legumes in sub-Saharan Africa/ Gudeta Sileshi …[*et al*.]
Plant and Soil. Hague:Jun 2008. Vol. 307, Iss. 1-2, p. 1-19
Keywords:Legumes; Zea mays; Yields

647. Modelling of planted legume fallows in Western Kenya. (II) Productivity and sustainability of simulated management strategies/ A P Walker, M van Noordwijk, G Cadisch.
Agroforestry Systems. The Hague:Oct 2008. Vol. 74, Iss. 2, p. 143-154
Keywords:Legumes; Fallow; Productivity; Sustainability

648. Nitrogen capture by grapevine roots and arbuscular mycorrhizal fungi from legume cover-crop residues under low rates of mineral fertilization/ Xiaomei Cheng, Amy Euliss, Kendra Baumgartner.
Biology and Fertility of Soils. Berlin:Aug 2008. Vol. 44, Iss. 7, p. 965-973
Keywords:Legumes; Cover crops; Arbuscular mycorrhizal fungi; Nitrogen; Nutrient uptake; Fertilizer application

649. Novel type of thioredoxin dedicated to symbiosis in legumes1[W][OA]/ Fatima Alkhalfioui …[*et al*.]
Plant Physiology. :Sep 2008. Vol. 148, Iss. 1, p. 424-435
Keywords: Legumes; Thioredoxin; Symbiosis

650. Planted legume fallows reduce weeds and increase soil N and P contents but not upland rice yields/ K Saito ...[*et al*.]
Agroforestry Systems. :Sep 2008. Vol. 74, Iss. 1, p. 63-72
Keywords: Legumes; Fallow; Nitrogen; Phosphorus; Soil fertility; Upland rice; Yields

651. Reaction of genotypes from several species of grain and forage legumes to infection with a French pea isolate of the oomycete *Aphanomyces euteiches*/ A Moussart, M N Even, B Tivoli
European Journal of Plant Pathology. Dordrecht:Nov 2008. Vol. 122, Iss. 3, p. 321-333
Keywords:Legumes; Genotypes; Aphanomyces euteiches; Infection

652. Relationships between immobilized phosphorus uptake in two grain legumes and soil bioactive phosphorus pools in fertilized and manure-amended soil/ S C Rao, T H Dao.
Agronomy Journal. Madison:Nov/Dec 2008. Vol. 100, Iss. 6, p. 1535-1540
Keywords:Legumes; Phosphorus; Nutrient uptake; Fertilizer application

653. Responseof native southeastern u.s. legumes to root-knot nematodes/ Kenneth H Quesenberry ...[*et al*.]
Crop Science. Madison:Nov/Dec 2008. Vol. 48, Iss. 6, p. 2274-2278
Keywords:Legumes; Meloidogyne; Root knot nematode

654. Split-root study of autoregulation of nodulation in the model legume *Lotus japonicas*/ Akihiro Suzuki …[*et al*.]
Journal of Plant Research. Tokyo:Mar 2008. Vol. 121, Iss. 2, p. 245-249
Keywords:Lotus japonicus; Roots; Nodulation

SCIENCEDIRECT

655. Complete plastid genome sequence of the chickpea (*Cicer arietinum*) and the phylogenetic distribution of rps12 and clpP intron losses among legumes (*Leguminosae*)/ Robert K. Jansen…[*et al*.]
Molecular Phylogenetics and Evolution, Volume 48, Issue 3, September 2008, p. 1204-1217, ISSN 1055-7903
Keywords: Plastid genetic engineering; Genome evolution;

Phylogeny; Leguminosae; Intron loss; Chickpeas; Cicer arietinum

656. Control of *Orobanche crenata* in legumes intercropped with fenugreek (*Trigonella foenum-graecum*)/ Monica Fernandez-Aparicio, Amero A. Emeran, Diego Rubiales
Crop Protection, Volume 27, Issues 3-5, March-May 2008, p. 653-659, ISSN 0261-2194
Keywords: Allelopathy; Broomrape; Faba beans; Germination; Intercropping; Orobanche crenata; Trigonella foenum graecum;Peas; Fenugreek; Seed germination

657. Decontamination of grains and legumes infected with *Aspergillus* spp. and *Penicillum* spp. by cold plasma treatment/ Meral Selcuk, Lutfi Oksuz, Pervin Basaran
Bioresource Technology, Volume 99, Issue 11, Exploring Horizons in Biotechnology: A Global Venture, July 2008, p.5104-5109, ISSN 0960-8524
Keywords: Grain legumes; Plasma; Non thermal; Seed treatment; Aspergillus; Penicillum; Decontamination

658. Determinism of carbon and nitrogen reserve accumulation in legume seeds/ Nathalie Munier-Jolain …[*et al*.]
Comptes Rendus Biologies, Volume 331, Issue 10, Les graines de la vie / The seeds of life, October 2008, p. 780-787, ISSN 1631-0691
Keywords: Seeds; Seed growth; Cell number; Nitrogen; Grain legumes

659. Effects of temperature and photoperiod on flowering time of forage legumes in a Mediterranean environment/ A. Iannucci, M.R. Terribile, P. Martiniello
Field Crops Research, Volume 106, Issue 2, 5 March 2008, p. 156-162, ISSN 0378-4290
Keywords:Base temperature; Flowering stage; Legume species; Photoperiod; Temperature; Thermal time

660. Environmental impacts of introducing grain legumes into European crop rotations/ Thomas Nemecek…[*et al*.]
European Journal of Agronomy, Volume 28, Issue 3, April 2008, p. 380-393, ISSN 1161-0301
Keywords: Crop rotation; Environmental impact; Life cycle assessment; Grain legumes

661. Identification of stress-induced genes from the drought tolerant semi-arid legume crop horsegram (*Macrotyloma uniflorum* (Lam.) Verdc.) through analysis of subtracted expressed sequence tags/ P. Chandra Obul Reddy…[*et al*.]
Plant Science, Volume 175, Issue 3, September 2008, p. 372-384, ISSN 0168-9452
Keywords: Expressed sequenced tags; Drought stress; Horsegram; Subtractive hybridization; Gene expression; Macrotyloma uniflorum

662. Legume-maize rotation and nitrogen effects on weed performance in the humid and subhumid tropics of West Africa/ David Chikoye …[*et al*.]
Crop Protection, Volume 27, Issues 3-5, March-May 2008, p. 638-647, ISSN 0261-2194
Keywords:Bush fallow; Continuous cropping; Species composition; Weed density; Legumes; Zea mays; Nitrogen

663. Lotus genome: pod of gold for legume research/ Krzysztof Szczyglowski, Jens Stougaard
Trends in Plant Science, Volume 13, Issue 10, October 2008, p. 515-517, ISSN 1360-1385
Keywords: Garden pea; Pisum sativum ; Lotus japonicus; Sustainable agriculture; Plant breeding; Modern genetics

664. Molecular diversity and phylogeny of *rhizobia* associated with wild legumes native to Xinjiang, China/ Tian Xu Han …[*et al*.]
Systematic and Applied Microbiology, Volume 31, Issue 4, September 2008, p. 287-301, ISSN 0723-2020

Keywords: Wild legumes; Rhizobial diversity; Phylogeny

665. Molecular markers and a sequence deletion in intron 2 of the putative partial homologue of LEAFY reveal geographical structure to genetic diversity in the acutely threatened legume genus Clianthus/ Jiancheng Song …[*et al*.]
Biological Conservation, Volume 141, Issue 8, August 2008, p. 2041-2053, ISSN 0006-3207
Keywords: Clianthus; Intron; AFLP; Genetic diversity; Genetic markers; Cultivation; Conservation; Genotypes

666. Physiological responses of the legume model *Medicago truncatula* cv. Jemalong to water deficit/ Fevereiro ...[*et al*.]
Environmental and Experimental Botany, Volume 63, Issues 1-3, May 2008, p. 289-296, ISSN 0098-8472
Keywords:Drought stress; Medicago truncatula; Legumes;Water relations

667. Reserve accumulation in legume seeds/ Karine Gallardo …[*et al*.]
Comptes Rendus Biologies, Volume 331, Issue 10, Les graines / The seeds of life, October 2008, p. 755-762, ISSN 1631-0691
Keywords: Accumulation; Seeds; Reserve; Legumes

668. Response to residual and currently applied phosphorus in dryland cereal/legume rotations in three Syrian Mediterranean agroecosystems/ J. Ryan …[*et al*.]
European Journal of Agronomy, Volume 28, Issue 2, February 2008, p. 126-137, ISSN 1161-0301
Keywords: Dry lands; Cereals; Legumes; Crop rotation; Phosphorus; Fertilizer efficiency; Mediterranean agriculture

669. Susceptibility of legume pod borer (LPB), *Maruca vitrata* to [delta]-endotoxins of *Bacillus thuringiensis* (Bt) in Taiwan/ R. Srinivasan
Journal of Invertebrate Pathology, Volume 97, Issue 1, January 2008, p. 79-81, ISSN 0022-2011
Keywords:Maruca vitrata; Endotoxins; Baseline susceptibility; Fruit damaging insects; Bacillus thuringiensis

670. Using an energetic and exergetic life cycle analysis to assess the

best applications of legumes within a biobased economy/ Ben Brehmer, Paul C. Struik, Johan Sanders
Biomass and Bioenergy, Volume 32, Issue 12, December 2008, p. 1175-1186, ISSN 0961-9534
Keywords: Energy; Land use efficiency; Legumes; Solar radiation; Fertilizers; Life cycle analysis

671. Visitor diversity and pollinator specialization in Mediterranean legumes, Flora-Morphology, Distribution/ Marta Galloni …[*et al*.]
Functional Ecology of Plants, Volume 203, Issue 1, 15 January 2008, p. 94-102, ISSN 0367-2530
Keywords:Plant pollinator interaction; Plant reproductive ecology; Pollinator importance; Melittophily; Faboideae

672. Weed inhibition by sowing legume species in early succession of abandoned fields on Loess Plateau, China/ Jin-Hua Li, Dang-Hui Xu, Gang Wang
Acta Oecologica, Volume 33, Issue 1, January-February 2008, p. 10-14, ISSN 1146-609X
Keywords: Abandoned field; Early succession stage; Legumes; Weed inhibition; Secondary succession

673. Winter survival, biomass accumulation and N mineralization of winter annual and biennial legumes sown at various times of year in northern temperate regions/ Lars Olav Brandsaeter …[*et al*.]
European Journal of Agronomy, Volume 28, Issue 3, April 2008, p. 437-448, ISSN 1161-0301
Keywords:Crop systems; Cover crops; Crop growth; Medicago.; Winter survival; Nitrogen cycle; Subterranean clover ; Yellow sweetclover; Crimson clover; Hairy vetch; Vicia villosa ; Weed management

2009
PROQUEST

674. *Agrobacterium tumefaciens*-mediated genetic transformation of a recalcitrant grain legume, lentil (*Lens culinaris* Medik)/ Ufuk Celikkol Akcay …[*et al*.]

Cell Reports. Berlin:Mar 2009. Vol. 28, Iss. 3, p. 407-417
Keywords:Lens culinaris; Grain legumes; Agrobacterium tumefaciens; Genetic transformation; Genetic engineering

675. Annual legumes for forage systems in the United States Gulf coast region/ J L Foster …[*et al*.]
Agronomy Journal. Madison:Mar/Apr 2009. Vol. 101, Iss. 2, p. 415-421
Keywords: Legumes; Foraging; Grazing; Gulf sates

676. Capabilities of four novel warm-season legumes in the Southern Great plains: grain production and quality/ Srinivas C Rao, Brian K Northup.
Crop Science. Madison:May/Jun 2009. Vol. 49, Iss. 3, p. 1103-1108
Keywords: Legumes; Grain; Production; Quality; Warm season; Southern plains states

677. Capabilities of four novel warm-season legumes in the Southern Great plains: biomass and forage quality/ Srinivas C Rao, Brian K Northup
Crop Science. Madison:May/Jun 2009. Vol. 49, Iss. 3, p. 1096-1102
Keywords: Legumes; Biomass; Foraging; Quality; Warm season; Southern plains states

678. Control of seed-borne pathogens on legumes by microbial and other alternative seed treatments/ Federico Tinivella …[*et al*.]
European Journal of Plant Pathology. Dordrecht:Feb 2009. Vol. 123, Iss. 2, p. 139-151
Keywords: Legumes; Seed borne pathogens; Seed treatment; Microbial properties

679. Diversity of rhizobia and interactions among the host legumes and rhizob genotypes in an agricultural-forestry ecosystem/ Hao Wang…[*et al*.]
Plant and Soil. The Hague:Jan 2009. Vol. 314, Iss. 1-2, p. 169-

182
Keywords: Legumes; Hosts; Rhizobium; Genotypes; Biodiversity

680. Effects of heat treatment and in vitro digestion on the Angiotensin converting enzyme inhibitory activity of some legume species/ H Gül Akilliolu, Sibel Karakaya
European Food Research and Technology = Zeitschrift für Lebensmittel-Untersuchung und -Forschung. A. Heidelberg:Oct 2009. Vol. 229, Iss. 6, p. 915-921
Keywords:Legumes; Species; Enzyme inhibitors; Heat treatment; Digestibility; In vitro experimentation

681. Effects of shade on growth and nodulation of three native legumes with potential for use in agroforestry/ James H Houx III …[*et al*.]
Navarrete-Tindall. Native Plants Journal. Moscow:Fall 2009. Vol. 10, Iss. 3, p. 233-238
Keywords: Legumes; Shade; Growth; Root nodulation; Agroforestry

682. Enhanced establishment and growth of giant cardon cactus in an eroded field in the sonoran desert using native legume trees as nurse plants aided by plant growth-promoting microorganisms and compost/ Yoav Bashan …[*et al*.]
Biology and Fertility of Soils. Berlin:Jul 2009. Vol. 45, Iss. 6, p. 585-594
Keywords: Legumes; Microorganisms; Composts; Growth

683. Equol in milk of dairy cows is derived from forage legumes such as red clover/ Eeva A Mustonen …[*et al*.]
British Journal of Nutrition. Cambridge:Dec 14, 2009. Vol. 102, Iss. 11, p. 1552-1556
Keywords:Legumes; Dairy cows; Trifolium pratense; Milk performance

684. Evaluation of rice-legume-rice cropping system on grain yield,

nutrient uptake, nitrogen fixation, and chemical, physical, and biological properties of soil/ Dwipendra Thakuria …[*et al*.]
Biology and Fertility of Soils. Berlin: Feb 2009. Vol. 45, Iss. 3, p. 237-251
Keywords:Legumes; Rice; Cropping systems; Yields; Nutrient uptake; Nitrogen fixation; Chemicophysical properties

685. Facilitated legume nodulation, phosphate uptake and nitrogen transfer by arbuscular inoculation in an upland rice and mung bean intercropping system/ Yuefeng Li …[*et al*.]
Plant and Soil. :Feb 2009. Vol. 315, Iss. 1-2, p. 285-296
Keywords: Legumes Mung beans; Upland rice; Intercropping; Root nodulation; Phosphates; Nitrogen

686. Factors affecting the establishment and growth of annual legumes in semi-arid mediterranean grasslands/ Theodora P Merou, Vasilios P Papanastasis
Plant Ecology. Dordrecht:Apr 2009. Vol. 201, Iss. 2, p. 491-500
Keywords:Legumes; Pastures; Plant establisment; Growth; Grasslands

687. Gross precipitation and throughfall chemistry in legume species planted in Northeastern México/ José Návar, Jorge Méndez González, Humberto Gonzalez
Plant and Soil. The Hague:May 2009. Vol. 318, Iss. 1-2, p. 15-26
Keywords: Legumes; Species; Precipitation; Mexico

688. Handbook of new technologies for genetic improvement of legumes/ Rajeev Varshney, P B Fl Kirti, Boca Raton
Experimental Agriculture. Cambridge:Jul 2009. Vol. 45, Iss. 3, p. 374-375
Keywords: Legumes; Breeding methods; Technology

689. Impact of soil organism composition and activated carbon on grass-legume competition/ Susanne Wurst, Sander van Beersum
Plant and Soil The Hague:Jan 2009. Vol. 314, Iss. 1-2, p. 1-9
Keywords: Grasses; Legumes; Soil organisms; Activated carbon; Plant competition

690. Impact of legume versus cereal root residues on biological properties of West African soils/ Beate Formowitz, Rainer Georg Joergensen, Andreas Buerkert
Plant and Soil. The Hague:Dec 2009. Vol. 325, Iss. 1-2, p. 145-156
Keywords: Legumes; Roots; Biological properties; Soil types; West Africa

691. *In vitro* effects of some pesticides on pathogenic fungi associated with legumes/ Dare Michael Olajire, Fawole B Oluyemisi
Australian Journal of Crop Science. Lismore:May 2009. Vol. 3, Iss. 3, p. 173-177
Keywords: Legumes; Pesticides; Pathogens; In vitro experimentation

692. Legume cover crops are more beneficial than natural fallows in minimally tilled Ugandan soils/ Drake N Mubiru, Mark S Coyne
Agronomy Journal. Madison:May/Jun 2009. Vol. 101, Iss. 3, p. 644-652
Keywords: Legumes; Cover crops; Soil types; Uganda

693. Legume focus: model species sequenced, mutagenesis approaches extended, and debut of a new model/ Mark R O'Brian, Carroll P Vance, Kathryn A VandenBosch
Plant Physiology. Rockville: Nov 2009. Vol. 151, Iss. 3, p. 969
Keywords: Legumes; Species; Mutation; Models

694. Legume hays were supplemented at 50% of total diet DM, and soybean meal was supplemented at specific interaction of the legume lectins, concanavalin A and peanut agglutinin, with phycocyanin/ Gunjan Pandey, Tasneem Fatma, Sneha Sudha Komath
Photochemistry and Photobiology. Augusta:Sep/Oct 2009. Vol. 85, Iss. 5, p. 1126-1133
Keywords: Legumes; Soybean meal; Supplements; Lectins; Diet; Concanavalin A; Agglutinin; Phycocyanin

695. Legume transcription factor genes: what makes legumes so special?1[W]/ Marc Libault …[*et al*.]

Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 991-1001
Keywords: Legumes; Genes; Transcription

696. Metabolic role of the legume endosperm: A noninvasive Imaging study1[W][OA]/ Gerd Melkus …[*et al*.]
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 1139-1154
Keywords: Legumes; Endosperm; Metabolism

697. MicroRNAs in the rhizobia legume symbiosis1/ Stacey A Simon, Blake C Meyers, D Janine Sherrier.
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 1002-1008
Keywords: Legumes; Rhizobium; MicroRNAs; Symbiosis

698. Mutagenesis and beyond! tools for understanding legume biology1/ Million Tadege …[*et al*.]
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 978-984
Keywords: Legumes; Mutation; Equipment

699. Natural abundance of 15N in two cacao plantations with legume and non-legume shade trees/ Pekka Nygren, Humberto A Leblanc
Agroforestry Systems. The Hague:Jun 2009. Vol. 76, Iss. 2, p. 303-315
Keywords: Legumes; Theobroma cacao; Plantations; Shading

700. Nodulation of native woody legumes in Hong Kong, China/ Angie Y S Ng, Billy C H Hau
Plant and Soil. The Hague:Mar 2009. Vol. 316, Iss. 1-2, p. 35-43
Keywords: Legumes; Root nodulation; Hongkong

701. Nodulation signaling in legumes depends on an NSP1-NSP2 complex/ Nancy A Eckardt
Plant Cell. Rockville:Feb 2009. Vol. 21, Iss. 2, p. 367
Keywords: Legumes; Root nodulation; NSP1; NSP2

702. Palatability and nutritive value of native legumes/ Craig C Sheaffer, Donald L Wyse, Nancy J Ehlke

Native Plants Journal. Moscow:Fall 2009. Vol. 10, Iss. 3, p. 225-
Keywords: Legumes; Palatability; Nutritive value

703. Polyphenol, conditioning, and conservation effects on protein fractions and degradability in forage legumes/ J H Grabber, W K Coblentz
Crop Science. Madison:Jul/Aug 2009. Vol. 49, Iss. 4, p. 1511-1522
Keywords:Legumes; Polyphenol; Storage; Proteins; Digestibility

704. Post-genomics studies of developmental processes in legume seeds/ Richard Thompson, Judith Burstin, Karine Gallardo
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 1023-1029
Keywords: Legumes; Seeds; Genomes; Treatment date

705. Prediction of yield and the contribution of legumes in legume-grass mixtures using field spectrometry/ Sonja Biewer … [*et al*.]
Precision Agriculture. Dordrecht:Apr 2009. Vol. 10, Iss. 2, p. 128-144
Keywords: Legumes; Grasses; Mixed pastures; Spectrometry; Yields; Yield forecasting

706. Proteome of seed development in the model legume *Lotus japonicus*1[C][W]/ Svend Dam …[*et al*.]
Plant Physiology. Rockville:Mar 2009. Vol. 149, Iss. 3, p. 1325-1340
Keywords: Legumes; Lotus japonicus; Seedlings; Models

707. Radio frequency energy for postharvest control of pests in dry nuts and legumes/ Shaojin Wang …[*et al*.]
Resource. St. Joseph:Apr/May 2009. Vol. 16, Iss. 3, p. 17-19
Keywords: Legumes; Postharvest control; Pest control

708. Receptor-like kinase that functions in adaptation to salt stress in legumes/ Nancy A Eckardt

Plant Cell. Rockville:Feb 2009. Vol. 21, Iss. 2, p. 364
Keywords: Legumes; Osmotic stress; Transferases; Adaptation

709. Response of two perennial herbaceous Texas legumes to shade/ James P Muir, John R Bow, Lisa L Boggs
Native Plants Journal. Moscow:Fall 2009. Vol. 10, Iss. 3, p. 253-261
Keywords: Legumes; Shade plants; Herbaceous ornamentals; Perennials; Plant response; Texas

710. Responses of native legume desert trees used for reforestation in the Sonoran desert to plant growth-promoting microorganisms in screen house/ Yoav Bashan, Bernardo Salazar, Ma Esther Puente
Biology and Fertility of Soils. Berlin:Jul 2009. Vol. 45, Iss. 6, p. 655-662
Keywords: Legumes; Serophytes; Reforestation; Microorganisms; Greenhouses

711. Role of crop-pollinator relationships in breeding for pollinator-friendly legumes: from a breeding perspective/ Reid G Palmer …[*et al*.]
Euphytica. Dordrecht:Nov 2009. Vol. 170, Iss. 1-2, p. 35-52
Keywords: Legumes; Pollinators; Crops; Breeding plants

712. Salt tolerance and avoidance mechanisms at germination of annual pasture legumes: importance for adaptation to saline environments/ P G H Nichols … [*et al*.]
Plant and Soil. The Hague:Feb 2009. Vol. 315, Iss. 1-2, p. 241-255
Keywords: Legumes; Salt tolerance; Germination; Pastures; Adaptation

713. Seeding rate and planting arrangement effects on growth and weed suppression of a legume-oat cover crop for organic vegetable systems/ Eric B Brennan …[*et al*.]
Agronomy Journal. Madison:Jul/Aug 2009. Vol. 101, Iss. 4, p. 979-988
Keywords: Legumes; Oats; Cover crops; Seedlings; Planting; Growth; Weed suppression

714. Shovel roots: a unique stress-avoiding developmental strategy of

the legume plant *Hedysarum coronarium* L./ Elisabetta Tola …[*et al*.]
Plant and Soil. The Hague:Sep 2009. Vol. 322, Iss. 1-2, p. 25-37
Keywords:Legumes; Hedysarum coronarium; Roots; Development policies

715. Substituting medic, an annual legume, in place of summer fallow for winter wheat production/ Brian R Lewton …[*et al*.]
Journal of the ASFMRA. Denver:2009. p. 61-69
Keywords: Legumes; Wheats; Production; Fallow; Summer; Winter

716. Temperature-sensitive brush mutant of the legume *Lotus japonicus* reveals a link between root development and nodule infection by rhizobia[C][W][OA]/ Makoto Maekawa-Yoshikawa ...[*et al*.]
Plant Physiology. Rockville:Apr 2009. Vol. 149, Iss. 4, p. 1785-1796
Keywords: Legumes; Lotus japonicus; Mutants; Rooting; Infection; Rhizobium; Nodule infection

717. Three sequenced legume genomes and many crop species: Rich opportunities for translational genomics/ Steven B Cannon, Gregory D May, Scott A Jackson
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 970-977
Keywords: Legumes; Crops; Species; Genomes

718. Tree canopy effect on grass and grass/legume mixtures in eastern Nebraska/ Michael E L Perry …[*et al*.]
Agroforestry Systems. The Hague:Sep 2009. Vol. 77, Iss. 1, p. 23-35
Keywords: Legumes; Grasses; Canopy; Mixed cropping; Nebraska

719. Will elevated carbon dioxide concentration amplify the benefits of nitrogen fixation in legumes?/ Alistair Rogers, Elizabeth A Ainsworth, Andrew D B Leakey
Plant Physiology. Rockville:Nov 2009. Vol. 151, Iss. 3, p. 1009-1016

Keywords: Legumes; Carbon dioxide; Nitrogen fixation

SCIENCEDIRECT

720. Abiotic stress enhances androgenesis from isolated microspores of some legume species (Fabaceae)/ S. Ochatt …[*et al.*]
Journal of Plant Physiology, Volume 166, Issue 12, 15 August 2009, p. 1314-1328, ISSN 0176-1617
Keywords: Electroporation; Lathyrus sativus; Medicago truncatula; Microspores; Peas; Legumes; Species; Genotypes

721. Do edaphic factors influence the biogeography of legumes species in the Cape Floristic region of South Africa?/ S.B.M. Chimphango ...[*et al*.]
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 395, ISSN 0254-6299
Keywords: Canavalia gladiata; Canavalia virosa; Extrafloral nectaries; Morphological protandry; Pollination; Myrmecophily

722. Early diagnostics of macronutrient deficiencies in three legume species by color image analysis/ Marian Wiwart …[*et al*.]
Computers and Electronics in Agriculture, Volume 65, Issue 1, January 2009, p. 125-132, ISSN 0168-1699
Keywords: Macroelements; Deficiency; Image analysis; Vicia faba minor; Pisum sativum; Lupinus luteus

723. Fate of legume-derived nitrogen in monocultures and mixtures with cereals/ Peer Urbatzka …[*et al*.]
Agriculture, Ecosystems & Environment, Volume 132, Issues 1-2, July 2009, p. 116-125, ISSN 0167-8809
Keywords: Winter peas; Nitrogen; Utilization efficiency; Grain legumes; Mixed cropping; Intercropping; Monoculture

724. Genetic diversity and distribution of Bradyrhizobium and

Azorhizobium strains associated with the herb legume *Zornia glochidiata* sampled from across Senegal/ F. Gueye …[*et al*.]
Systematic and Applied Microbiology, Volume 32, Issue 6, September 2009, p. 387-399, ISSN 0723-2020
Keywords: Bradyrhizobium; Azorhizobium; Zornia glochidiata; Phylogeny; Symbiosis; Nitrogen fixation; Parasitism; AFLP

725. Integral valorization of two legumes by autohydrolysis and organosolv delignification/ A. Alfaro …[*et al*.]
Bioresource Technology, Volume 100, Issue 1, January 2009, p. 440-445, ISSN 0960-8524
Keywords: Leucaena; Chamaecytisus; Autohydrolysis; Pulp

726. Isolation and sequence analysis of DREB2A homologues in three cereal and two legume species/ Spurthi N. Nayak …[*et al*.]
Plant Science, Volume 177, Issue 5, November 2009, p. 460-467, ISSN 0168-9452
Keywords: Legumes; Species; DREB; Candidate gene; Drought stress; SNP; Haplotype

727. Medicago truncatula genomics to crop legumes/ Nevin Dale Young, Michael Udvardi
Translating Current Opinion in Plant Biology, Volume 12, Issue 2, Genome Studies and Molecular Genetics - Edited by Masahiro Yano and Roberto Tuberosa, April 2009, p. 193-201, ISSN 1369-5266
Keywords: Crop legumes; Medicago truncatula; Genes; Translating genome; Molecular cloning

728. Orphan legume crops enter the genomics era!/ Rajeev K Varshney …[*et al*.]
Current Opinion in Plant Biology, Volume 12, Issue 2, Genome Studies and Molecular Genetics - Edited by Masahiro Yano and Roberto Tuberosa, April 2009, p. 202-210, ISSN 1369-5266
Keywords: Crop production; Genetic resources; Food legumes; Genomes

729. Physicochemical, functional and structural properties of vicilin-rich protein isolates from three Phaseolus legumes: Effect of heat treatment/ Chuan-He Tang, Xin Sun, Shou-Wei Yin
Food Hydrocolloids, Volume 23, Issue 7, October 2009, p. 1771-1778, ISSN 0268-005X
Keywords: Vicilin; Heat treatment; Modification; Functional properties; Structural conformation

730. Productivity and residual benefits of grain legumes to sorghum under semi-arid conditions in south-western Zimbabwe: Unravelling the effects of water and nitrogen using a simulation model/ Bongani Ncube …[*et al*.]
Field Crops Research, Volume 110, Issue 2, 10 February 2009, p. 173-184, ISSN 0378-4290
Keywords: APSIM; Nitrogen uptake; Nitrogen fixation; Stress factors; Biomass; Grain yield; Sorghum ; Water use; Simulation models; Productivity; Semi arid zones; Zimbabwe

731. Radiation interception and biomass and nitrogen accumulation in different cereal and grain legume species/ Francesco Giunta, Giovanni Pruneddu, Rosella Motzo
Field Crops Research, Volume 110, Issue 1, 5 January 2009, p. 76-84, ISSN 0378-4290
Keywords: Hard wheat; Biomass accumulation; Nitrogen accumulation; Grain legumes; Triticale; Radiation interception

732. Rotation effects of grain legumes and fallow on maize yield, microbial biomass and chemical properties of an Alfisol in the Nigerian savanna/ A.A. Yusuf …[*et al*.]
Agriculture, Ecosystems & Environment, Volume 129, Issues 1-3, January 2009, p. 325-331, ISSN 0167-8809
Keywords: Maize; Grain legumes; Alfisols; Rotational cropping; Yields; Soil chemicophysical properties; Soil microbial properties; Northern Guinea; Savannas

733. Symbiotic diversity of *Ensifer meliloti* strains recovered from various legume species in Tunisia/ Bacem Mnasri …[*et al*.]
Systematic and Applied Microbiology, Volume 32, Issue 8,

December 2009, p. 583-592, ISSN 0723-2020
Keywords: Ensifer meliloti; Ensifer medicae; Medicago; Sinorhizobium; Wild legumes; Mediterraneans; Symbiotic diversity

734. Unbearable naivety of legumes in symbiosis/ Griet Den Herder, Martin Parniske
Current Opinion in Plant Biology, Volume 12, Issue 4, Biotic Interactions - Edited by Xinnian Dong and Regine Kahmann, August 2009, p. 491-499, ISSN 1369-5266
Keywords: Legumes; Rhizobium; Symbiotic nitrogen; Genotypes; Bacterial hydrogenase

735. White lupine as a beneficial crop in Southern Europe. II. Nitrogen recovery in a legume-oat rotation and a continuous oat-oat/ C. Carranca, M.O. Torres, J. Baeta
European Journal of Agronomy, Volume 31, Issue 4, November 2009, p. 190-194, ISSN 1161-0301
Keywords: Legumes; Oats; Dry matter content; Yields; Mature residues; Nitrogen fertilizers; Tillage practice

2010
PROQUEST

736. Beans: Help for the common bean: genetic solutions for legume problems/ Alfredo Flores, Stephanie Yao, Jan Suszkiw
Agricultural Research. Washington:May/Jun 2010. Vol.58, Iss. 5, p. 8-10
Keywords: Legumes; Genetics; Kidney beans; Gene transfer

737. Breaking germination dormancy of Texas native perennial herbaceous legumes/ Dean A Dittus, James P Muir
Native Plants Journal. Moscow:Spring 2010. Vol. 11, Iss. 1, p. 5-10
Keywords: Legumes; Perennials; Germination; Dormancy breaking; Texas

738. Consumption of a legume-enriched, low-glycemic index diet is associated with biomarkers of insulin resistance and inflammation among men at risk for colorectal cancer1,2/ Terryl J Hartman…[*et al*.]
Journal of Nutrition. :Jan 2010. Vol. 140, Iss. 1, p. 60-67
Keywords: Legumes; Diet; Insulin; Inflammation; Neoplasms; Food consumption; Drugs

739. Large-scale phosphoprotein analysis in *Medicago truncatula* roots provides insight into *in vivo* kinase activity in legumes1[W]/ Paul A Grimsrud …[et al.]
Plant Physiology. Rockville:Jan 2010. Vol. 152, Iss. 1, p. 19-28
Keywords: Medicago truncatula; Phosphoroteins; Proximate composition; Transferases; In vivo experimentation

740. Risk analysis of maize-legume crop combinations with smallholder farmers varying in resource endowment in central Malawi/ B C G Kamanga …[*et al*.]
Experimental Agriculture. Cambridge:Jan 2010. Vol. 46, Iss. 1, p. 1-21
Keywords: Legumes; Maize; Cropping systems; Crop management; Risk; Small farms; Malawi

741. Strategic phosphorus application in legume-cereal rotations increases land productivity and profitability in western Kenya/ J Kihara …[*et al*.]
Experimental Agriculture. Cambridge:Jan 2010. Vol. 46, Iss. 1, p. 35-52
Keywords: Legumes; Cereal crops; Rotational cropping; Profitability; Phosphate fertilizers; Land productivity; Kenya

742. Weed control potential of five legume cover crops in maize/cassava intercrop in a Southern Guinea savanna ecosystem of Nigeria/ P M Olorunmaiye
Australian Journal of Crop Science. Lismore: Jul 2010. Vol. 4, Iss. 5, p. 324-
Keywords:Legumes; Cover plants; Maize; Cassava; Intercropping; Weed control; Ecosystems; Guinea;

Nigeria; Savannas

743. Wheat, canola and grain legume access to soil phosphorus fractions differs in soils with contrasting phosphorus dynamics/ Terry J Rose, Bingah Hardiputra, Zed Rengel
Plant and Soil. The Hague:Jan 2010. Vol. 326, Iss. 1-2, p. 159-170
Keywords:Grain legumes; Wheats; Brassica napus; Phosphorus; Soil treatment

SCIENCEDIRECT

744. Assessment of N_2 fixation capability of native legumes from the longleaf pine-wiregrass ecosystem/ Sarah E. Cathey …[*et al*.]
Environmental and Experimental Botany, Volume 67, Issue 3, January 2010, p. 444-450, ISSN 0098-8472
Keywords:Acetylene reduction; Native legumes; Nodules; Ureides; Nitrogen fixation; Natural abundance

745. Biological nitrogen fixation in tree legumes of the Brazilian semi-arid caatinga/ A.D.S. Freitas …[*et al*.]
Journal of Arid Environments, Volume 74, Issue 3, March 2010, p. 344-349, ISSN 0140-1963
Keywords:Legumes; Nitrogen fixation; Dry forest; Natural abundance; Semi arid zones; Brazil

746. Boron deficiency results in induction of pathogenesis-related proteins from the PR-10 family during the legume-rhizobia interaction/ Maria Reguera, Ildefonso Bonilla, Luis Bolanos
Journal of Plant Physiology, Volume 167, Issue 8, 15 May 2010, p. 625-632, ISSN 0176-1617
Keywords: ABR17; Boron; Legumes; Rhizobia interaction; Symbiosis; Pathogenesis related proteins

747. Characterization of galactomannans isolated from legume endosperms of Caesalpinioideae and Faboideae subfamilies by multidetection aqueous SEC/ M.A. Pollard …[*et al*.]
Carbohydrate Polymers, Volume 79, Issue 1, 5 January 2010, p. 70-84, ISSN 0144-8617

Keywords:Galactomannan; Molecular weight distribution; Fenugreek;Molar mass distribution; Size exclusion chromatography; Schulz zimm model; Guar; Carob; Tara; Cassia

748. Cropmarks in stands of cereals, legumes and winter rape indicate sub-soil archaeological features in the agricultural landscape of Central Europe/ Michal Hejcman, Zdenek Smrz
Agriculture, Ecosystems & Environment, Volume 138, Issues 3-4, 15 August 2010, p. 348-354, ISSN 0167-8809
Keywords: Aerial prospection; Survey; Brassica napus; Hordeum vulgare; Triticumaestivum; Medicago sativa; Logging; Plant nutrition; Oblique photographs

749. Developing postharvest disinfestation treatments for legumes using radio frequency energy/ S. Wang …[*et al*.]
Biosystems Engineering, Volume 105, Issue 3, March 2010, p. 341-349, ISSN 1537-5110
Keywords:Legumes; Germination; Temperature; Postharvest control

750. Estimating biological N2 fixation in Canadian agricultural land using legume yields/ J.Y. Yang …[*et al*.]
Agriculture, Ecosystems & Environment, Volume 137, Issues 1-2, Special section Harvested perennial grasslands: Ecological models for farming's perennial future, 15 April 2010, p. 192-201, ISSN 0167-8809
Keywords:Biological fixation; Legume crop; Yields; Crop residues; Canadian agricultural nitrogen budget; Models

751. From controlled environments to field simulations: developing a growth model for the novel perennial pasture legume Cullen australasicum/ Lalith D.B. Suriyagoda …[*et al*.]
Agricultural and Forest Meteorology, Volume 150, Issue 10, 15 September 2010, p. 1373-1382, ISSN 0168-1923
Keywords:Australian native legumes; Climate change; Drought; Pastures; Growth model; Novel crops

752. Indigenous legume fallows (indifallows) as an alternative soil fertility resource in smallholder maize cropping systems/ H.

Nezomba …[*et al*.]
Field Crops Research, Volume 115, Issue 2, 20 January 2010, p. 149-157, ISSN 0378-4290
Keywords: Indigenous legumes; Soil fertility; Nutrient depleted fields; Maize; Cropping systems; Productivity; Smallholders

753. Interactions between temperature, drought and stomatal opening in legumes/ Christina E. Reynolds-Henne …[*et al*.]
Environmental and Experimental Botany, Volume 68, Issue 1, March 2010, p. 37-43, ISSN 0098-8472
Keywords: Drought; Temperature stress; Legumes; Thermal imaging

754. Inter-cropping with berseem clover (*Trifolium alexandrinum*) reduces infection by Orobanche crenata in legumes/ M. Fernandez-Aparicio, A.A. Emeran, D. Rubiales
Crop Protection, Volume 29, Issue 8, August 2010, p. 867-871, ISSN 0261-2194
Keywords: Allelopathy; Broomrape; Trifolium alexandrinum; Germination; Intercropping; Parasitic plants; Weeds

755. Legume rotation crop lessens the need for nitrogen fertiliser throughout the sugarcane cropping cycle/ Sarah E. Park …[*et al*.]
Field Crops Research, Volume 119, Issues 2-3, November-December 2010, p. 331-341, ISSN 0378-4290
Keywords: Legumes; Mineralization; Soil organic matter; Decomposition; Nitrogen cycle; Soybeans; Cropping systems

756. Legume-grass species influence plant productivity and soil nitrogen during grassland succession in the eastern Tibet Plateau/ Wen-Jin L i…[*et al*.]
Applied Soil Ecology, Volume 44, Issue 2, February 2010, p. 164-169, ISSN 0929-1393
Keywords: Species; Legumes; Grasses; Functional group; Soil properties; Secondary succession; Abandoned field; Sub alpine meadow; Productivity

757. Model legumes contribute to faba bean breeding/ Nicolas Rispail …[*et al*.]
Field Crops Research, Volume 115, Issue 3, Faba Beans in Sustainable Agriculture, 5 Feb. 2010, p. 253-269, ISSN 0378-4290
Keywords: Biotechnology; Breeding methods; Faba beans; Legumes; Vicia faba; Medicago truncatula; Lotus japonicas

758. Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition/ Ian E. Galbally…[*et al*.]
Agriculture, Ecosystems & Environment, Volume 136, Issues 3-4, Estimation of nitrous oxide emission from ecosystems and its mitigation technologies, 15 March 2010, p. 262-272, ISSN 0167-8809
Keywords: Nitrous oxide; Legumes; Pastures; Grazing; Liming; Soil acidification; Urine addition; Trace gas exchange

759. Rapid identification of nitrogen-fixing and legume-nodulating Burkholderia species based on PCR 16S rRNA species-specific oligonucleotides/ Arnoldo Wong-Villarreal, Jesus Caballero-Mellado
Systematic and Applied Microbiology, Volume 33, Issue 1, January 2010, p. 35-43, ISSN 0723-2020
Keywords: Diazotrophic Burkholderia; Nodulating Burkholderia; Tomatoes; PCR; Species; rRNA ; Nitrogen fixation; Sorghum

760. Strong negative effect of alien herbivores on endemic legumes of the Canary pine forest/ V. Garzon-Machado …[*et al*.]
Biological Conservation, Volume 143, Issue 11, November 2010, p. 2685-2694, ISSN 0006-3207
Keywords: Herbivory; Endemic plants; Pinus canariensis; Conservation; Introduced species

761. Structural analyses of the genomes in legumes/ Shusei Sato, Sachiko Isobe, Satoshi Tabata
Current Opinion in Plant Biology, Volume 13, Issue 2, April 2010, p. 146-152, ISSN 1369-5266
Keywords: Legumes; Soybeans; Genomes; DNA

762. Utilization of summer legumes as bioenergy feedstocks/ Keri B. Cantrell, Philip J. Bauer, Kyoung S. Ro
Biomass and Bioenergy, Volume 34, Issue 12, Current and Potential Capabilities of Wood Production Systems in the Southeastern U.S., December 2010, p. 1961-1967, ISSN 0961-9534
Keywords:Legumes; Energy conversion; Thermogravimetric analysis; Thermal analysis; Crop production; Pyrolysis

2011
SCIENCEDIRECT

763. Acylated flavonol glycosides from the forage legume, *Onobrychis viciifolia* (sainfoin)/ Nigel C. Veitch …[*et al*.]
Phytochemistry, Volume 72, Issues 4-5, April 2011, p.s 423-429, ISSN 0031-9422
Keywords:Onobrychis viciifolia; Leguminosae; Sainfoin; Forage legumes; Acylated flavonol glycosides

764. Characterization of galactomannans derived from legume endosperms of genus Sesbania (Faboideae)/ M.A. Pollard, P. Fischer, E.J. Windhab
Carbohydrate Polymers, Volume 84, Issue 1, 11 February 2011, p. 550-559, ISSN 0144-8617
Keywords: Galactomannan; Guar; Sesbania; Multidetection

765. Increased productivity through integrated soil fertility management in cassava-legume intercropping systems in the highlands of Sud-Kivu, DR Congo/ Pieter Pypers …[*et al*.]
Field Crops Research, Volume 120, Issue 1, 14 January 2011, p. 76-85, ISSN 0378-4290
Keywords: Crop arrangement; Economic benefits; Fertilizers; Grain legumes; Improved germplasm

766. Physical properties of extruded fish feed with inclusion of different plant (legumes, oilseeds, or cereals) meals/ Olav Fjeld

Kraugerud …[*et al*.]
Animal Feed Science and Technology, Volume 163, Issues 2-4, 11 February 2011, p. 244-254, ISSN 0377-8401
Keywords: Extrusion; Chemicophysical properties; Starch; Plant meal; Sunflower; Rapeseed; Field peas; Faba beans

767. Resolving conflicts between butterfly host resource abundance and genet population size estimates for a vegetatively spreading, threatened grassland legume/ Paul M. Severns, Mark V. Wilson
Biological Conservation, Volume 144, Issue 3, The New Conservation Debate: Beyond Parks vs. People, March 2011, p. 1152-1158, ISSN 0006-3207
Keywords:Plant clonality; Population size; Statistical relevance; Biological relevance; Population monitoring; Fender's blue butterfly; Kincaid's lupine

LEGUM PAKAN

2006
SCIENCEDIRECT

768. Cowpea (*Vigna unguiculata*) legume grains as protein source in the ration of growing sheep/ Sultan Singh…[*et al*.]
Small Ruminant Research, Volume 64, Issue 3, August 2006, p. 247-254, ISSN 0921-4488
Keywords: Cowpea grains; Sheep; Protein source; Eating pattern

769. Diet preference for grass and legumes in free-ranging domestic sheep and cattle: current theory and future application/ Steven Mark Rutter
Applied Animal Behaviour Science, Volume 97, Issue 1, International Society for Applied Ethology (ISAE) Special Issue 2004 - August 2004, March 2006, p. 17-35, ISSN 0168-1591
Keywords:Diet preference; Selection; Mixed diets; Grasses; Clovers; Ruminants

770. Effects of legume forages on ovine gastrointestinal parasite development, migration and survival/ C.L. Marley…[*et al*.]
Veterinary Parasitology, Volume 138, Issues 3-4, 15 June 2006, p. 308-317, ISSN 0304-4017
Keywords: Haemonchus contortus; Nematodes; Sheep; Red clover; White clover; Lucerne

771. Evaluation of tropical forage legumes (*Medicago sativa*, *Dolichos lablab*, *Leucaena leucocephala* and *Desmanthus bicornutus*) for growing goats/ J. Kanani, S.D. Lukefahr, R.L. Stanko
Small Ruminant Research, Volume 65, Issues 1-2, September 2006, p. 1-7, ISSN 0921-4488
Keywords: Goats; Growth; Feeding level; Tropical forages

772. Integrating cattle into the slash-and-burn cycle on smallholdings in the Eastern Amazon, using grass-capoeira or grass-legume pastures/ S. Hohnwald…[*et al*.]
Agriculture, Ecosystems & Environment, Volume 117, Issue 4, December 2006, Pages 266-276, ISSN 0167-8809
Keywords: Agro silvo pastoral system; Cattle; Secondary vegetation; Cratylia argentea; Chamaecrista rotundifolia; Arachis pintoi; Bragantina region

773. LegumeDB(1) bioinformatics resource: comparative genomic analysis and novel cross-genera marker identification in lupin and pasture legume species/ Moolhuijzen-P. ...[*et al*.]
Genome, 2006, 49 (6), p. 689-699
Keywords: Molecular genetics; Biochemistry; Molecular biophysics; Agronomy; Agriculture; Genes; Genome organization; Legumes; Lupin

774. Medeiros, influence of condensed tannins from Brazilian semi-arid legumes on ruminal degradability, microbial colonization and ruminal enzymatic activity in Saanen goats/ P.M. Guimaraes-Beelen, T.T. Berchielli, R. Beelen
Small Ruminant Research, Volume 61, Issue 1, January 2006, p. 35-44, ISSN 0921-4488
Keywords: Rumen microbial colonization; Astringency; Endoglucanase activity; Native legumes; Brazilian

semi arid region; Saanen goats

2007
SCIENCEDIRECT

775. Digestibility of differently processed grain legumes, cowpea and mung bean in black tiger shrimp, *Penaeus monodon* Fabricius and associated histological anomalies in hepatopancreas and midgut/ K.P. Kumaraguru Vasagam …[*et al*.]
Apparent Animal Feed Science and Technology, Volume 132, Issues 3-4, 15 January 2007, p. 250-266, ISSN 0377-8401
Keywords: Penaeus monodon; Digestibility; Plant feedstuffs; Dehulling; Soaking; Autoclaving; Germination; ANFs; Histology; Cowpeas; Mung beans

776. Distribution of phytase activity, total phosphorus and phytate phosphorus in legume seeds, cereals and cereal by-products as influenced by harvest year and cultivar/ T. Steiner …[*et al*.]
Animal Feed Science and Technology, Volume 133, Issues 3-4, 15 February 2007, p. 320-334, ISSN 0377-8401
Keywords: Phytase; Phosphorus; Legume seeds; Cereals; Byproducts

777. *In situ* and *in vitro* degradation of native Texas warm-season legumes and alfalfa in goats and steers fed a sorghum-sudan basal diet/ J.L. Foster …[*et al*.]
Animal Feed Science and Technology, Volume 133, Issues 3-4, 15 February 2007, p. 228-239, ISSN 0377-8401
Keywords: Warm season forage; Native legumes; Goats; Steers; In situ degradation; In vitro digestibility

778. Nutrient composition and in vitro ruminal fermentation of tropical legume mixtures with contrasting tannin contents/ C.D. Sturm …[*et al*.]
Animal Feed Science and Technology, Volume 138, Issue 1, 22 October 2007, p. 29-46, ISSN 0377-8401
Keywords: Calliandra calothyrsus; Cratylia argentea; Flemingia macrophylla; Leucaena leucocephala;

Tannins; Ruminal fermentation

779. Nutritive value of forage species grown in the warm temperate climate of Australia for dairy cows: Grasses and legumes/ W.J. Fulkerson …[*et al*.]
Livestock Science, Volume 107, Issues 2-3, April 2007, p. 253-264, ISSN 1871-1413
Keywords: Rumen degradability; Metabolisable protein; Nutritive value; Forage; Dairy cows; Legumes

780. Screening of nutrient digestibilities and intestinal pathologies in Atlantic salmon, Salmo salar, fed diets with legumes, oilseeds, or cereals/ M.A. Aslaksen …[*et al*.]
Aquaculture, Volume 272, Issues 1-4, 26 November 2007, p. 541-555, ISSN 0044-8486
Keywords:Atlantic salmon; Corn gluten; Soybeans; Sunflower; Lupin; Rapeseed; Field peas; Faba beans; Wheats; Oats; Viscosity; Digestibility; Pathology; Enteritis

TEEAL

781. Nutritive value of forage species grown in the warm temperate climate of Australia for dairy cows: grasses and legumes/ Fulkerson W.J; Neal J.S; Clark C.F.
Livestock Science, 2007, 107 (2-3), p. 253-264
Keywords: Nutritive value; Oats; Radishes; Temperate climate; Wheats; Legumes

2008
SCIENCEDIRECT

782. Digestibility of legume starches as influenced by their physical and structural properties/ Kawaljit Singh Sandhu, Seung-Taik
Carbohydrate Polymers, Volume 71, Issue 2, 24 January 2008, p. 245-252, ISSN 0144-8617
Keywords: Legumes; Starch; Chemicophysical properties; Digestibility

783. *In sacco* rumen disappearance of condensed tannins, fiber, and nitrogen from herbaceous native Texas legumes in goats/ D.L. Pawelek …[*et al*.]
Animal Feed Science and Technology, Volume 142, Issues 1-2, 15 April 2008, p. 1-16, ISSN 0377-8401
Keywords: Condensed tannins; Plant polyphenolics; Native legumes; Goats; In sacco rumen disappearance

784. In vitro assessment of the suitability of replacing the low-tannin legume *Vigna unguiculata* with the tanniniferous legumes *Leucaena leucocephala*, *Flemingia macrophylla* or *Calliandra calothyrsus* in a tropical grass die/ H.D. Hess …[*et al*.]
Animal Feed Science and Technology, Volume 147, Issues 1-3, Shrubby vegetation and agro-industrial by-products as alternative feed resources for sheep and goats, 14 November 2008, p. 105-115, ISSN 0377-8401
Keywords: Calliandra calothyrsus; Flemingia macrophylla; Tannins; Tropics Leucaena leucocephala; Ruminal fermentation; Vigna unguiculata

785. *In vitro* fermentation of intact and fractionated tropical herbaceous and tree legumes containing tannins and alkaloids/ David M. Mbugua, Erastus M. Kiruiro, Alice N. Pell
Animal Feed Science and Technology, Volume 146, Issues 1-2, 15 September 2008, p. 1-20, ISSN 0377-8401
Keywords: Tropical forages; Tannins; Alkaloids; In vitro; Fiber digestion; Gas production; Nutritive value

786. *In vitro* ruminal fermentation of tanniniferous tropical plants: plant-specific tannin effects and counteracting efficiency of PEG/ Tiemann-T-T. ...[*et al*.]
Animal Feed Science and Technology, 2008, 146 (3-4), p. 222-

241
Keywords: Adverse effects; Cowpeas; Cultures; Degradation; Diet; Dry matter; Evaluation; Fermentation; Gas production; In vitro; Legumes

2009
PROQUEST

787. Intake, digestibility, and nitrogen retention by sheep supplemented with warm-season legume hays or soybean meal/ J L Foster…[*et al*.]
Journal of Animal Science. Savoy:Sep 2009. Vol. 87, Iss. 9, p. 2891-2898
Keywords: Sheep; Legumes; Soybean meal; Digestibility; Digestible nitrogen; Supplements; Feed intake

SCIENCEDIRECT

788. Adaptation of forage legume species and cultivars under grazing in two extensive livestock systems in Italy/ L. Pecetti …[*et al*.]
European Journal of Agronomy, Volume 30, Issue 3, April 2009, p. 199-204, ISSN 1161-0301
Keywords:Birdsfoot trefoil; Extensive livestock; Grazing tolerance; Lucerne; Plant ideotype; Sainfoin; Feeding

789. Apparent nutrient digestibility and gastrointestinal evacuation time in European seabass (*Dicentrarchus labrax*) fed diets containing different levels of legumes/ Styliani Adamidou …[*et al*.]
Aquaculture, Vol. 289, Issues 1-2, 3 April 2009, p. 106-112, ISSN 0044-8486
Keywords:Wheat substitution; Legumes; Gastrointestinal; Glucose load; Physical properties

790. Carcass and meat quality of Thai native cattle fattened on Guinea grass (*Panicum maxima*) or Guinea grass-legume (*Stylosanthes guianensis*) pastures/ S. Jaturasitha …[*et al*.]
Meat Science, Volume 81, Issue 1, January 2009, p. 155-162, ISSN 0309-1740
Keywords: Cattle; Muscle fibre; Forage; Meat quality; Grazing systems; Guinea grass; Panicum maxima; Guinea grass; Legumes; Stylosanthes guianensis

791. Digestion site of starch from cereals and legumes in lactating dairy cows/ M. Larsen …[*et al*.]
Animal Feed Science and Technology, Volume 153, Issues 3-4, 24 September 2009, p. 236-248, ISSN 0377-8401
Keywords: Dairy cows; Rumen; Small intestine; Hind gut; Processing; Cereals; Peas; Digestibility; Legumes; Starch; Lactation

792. Growth, feed utilization, health and organoleptic characteristics of European seabass (*Dicentrarchus labrax)* fed extruded diets including low and high levels of three different legumes/ Styliani Adamidou …[*et al*.]
Aquaculture, Volume 293, Issues 3-4, 16 August 2009, p. 263-271, ISSN 0044-8486
Keywords: Peas; Chickpeas; Faba beans Wheats; Organoleptic properties; Health; Growth; Diet treatment; Feeds; Quality; Sensory analysis

793. *In vitro* ruminal fermentation of *Pennisetum purpureum* CT-115 supplemented with four tropical browse legume species/ R. Rodriguez, M. Fondevila, C. Castrillo
Animal Feed Science and Technology, Volume 151, Issues 1-2, 12 May 2009, p. 65-74, ISSN 0377-8401
Keywords: Pennisetum purpureum; Legumes; Species; Fermentation; In vitro experimentation; Gas production; Supplements

794. Protein fractions in forage legumes containing protein-binding polyphenols: freeze-drying vs. conservation as hay or silage/ J.H.

Grabber
Animal Feed Science and Technology, Volume 151, Issues 3-4, 26 May 2009, p. 324-329, ISSN 0377-8401
Keywords:Forage legumes; Polyphenol; Protein fractions; Preservation; Methods

795. Short-term nutritional treatments grazing legumes or feeding concentrates increase prolificacy in Corriedale ewes/ C. Vinoles, A. Meikle, G.B. Martin
Animal Reproduction Science, Volume 113, Issues 1-4, July 2009, p. 82-92, ISSN 0378-4320
Keywords:Legumes; Sheep; Nutrition; Prostaglandin; Ovulation rate

2010
SCIENCEDIRECT

796. Annual feed legume yield and quality in dryland environments in north-west Syria: 1. Herbage yield and quality/ A. Larbi …[*et al*.]
Animal Feed Science and Technology, Volume 160, Issues 3-4, 22 September 2010, p. 81-89, ISSN 0377-8401
Keywords: Vicia sativa; Vicia narbonensis; Lathyrus sativus; Herbage crops; Yields; Phosphate fertilizers; In vitro digestibility; Chemical composition; Dryland

797. Annual feed legume yield and quality in dryland environments in north-west Syria: 2. Grain and straw yield and straw quality/ A. Larbi …[*et al*.]
Animal Feed Science and Technology, Volume 160, Issues 3-4, 22 September 2010, p. 90-97, ISSN 0377-8401
Keywords: Vicia sativa; Vicia narbonensis; Lathyrus sativus; Grain; Straw yield; Phosphate fertilizers; Chemical composition; In vitro digestibility

798. Staggered maize-legume intercrop arrangement robustly increases crop yields and economic returns in the highlands of

Central Kenya/ Monicah Mucheru-Muna …[*et al*.]
Field Crops Research, Volume 115, Issue 2, 20 January 2010, p. 132-139, ISSN 0378-4290
Keywords:Cereals; Legumes; Intercropping; Fertilizers; Yields; Economic analysis; Nitrogen fixation; Higlands; Kenya

799. Use of grain legumes as a protein source in pig nutrition: a review/ D. Jezierny, R. Mosenthin, E. Bauer
Animal Feed Science and Technology, Volume 157, Issues 3-4, 11 May 2010, p. 111-128, ISSN 0377-8401
Keywords: Antinutritional factors; Feeding value; Grain legumes; Pigs; Protein; Secondary plant metabolites

2011
SCIENCEDIRECT

800. Chemical composition and standardised ileal digestibilities of crude protein and amino acids in grain legumes for growing pigs/ D. Jezierny …[*et al*.]
Livestock Science, In Press, Corrected Proof, Available online 12 February 2011, ISSN 1871-1413
Keywords: Digestibility; Grain legumes; Amino acids; Pigs; Crude protein; Chemical composition

801. Effect of legume (*Phaseolus calcaratus*) hay supplementation on rumen microorganisms, fermentation and nutrient digestibility in swamp buffalo/ V. Chanthakhoun …[*et al*.]
Livestock Science, In Press, Corrected Proof, Available online 12 March 2011, ISSN 1871-1413
Keywords: Tannins; Legumes; Phaseolus calcaratus; Swamp buffalo; Methane production; Rice straw; Rumen ecology

802. Herb and legume sward mix increased ewe milk production and ewe and lamb live weight gain to weaning compared to a ryegrass dominant sward/ P.G. Hutton …[*et al*.]
Animal Feed Science and Technology, Volume 164, Issues 1-2,

28 February 2011, p. 1-7, ISSN 0377-8401
Keywords: Herbage crops; Legumes; Lactation; Live weight gain; Sheep; Ewes; Lamb

803. Influence of formic acid and dry matter on protein degradation in the tanniniferous legume sainfoin/ M.M. Lorenz, P. Uden
Animal Feed Science and Technology, Volume 164, Issues 3-4, 30 March 2011, p. 217-224, ISSN 0377-8401
Keywords: Legumes; Formic acid; PH; Silage; Additives; Protein degradation; In vitro experimentation

804. Seed and forage yield, and forage quality determinants of nine legume shrubs in a non-tropical dryland environment/ A. Larbi…[*et al.*]
Animal Feed Science and Technology, Volume 163, Issues 2-4, 11 February 2011, p. 214-221, ISSN 0377-8401
Keywords: Shrubs; Legumes; Forage; Seeds; Chemical composition; In vitro experimentation, Digestibility; Gas production; Dryland

LEGUM PANGAN

2008
PROQUEST

805. Effect of soaking and cooking on nutritional quality and safety of legumes/ Nuzhat Huma ...[*et al*.]
Nutrition and Food Science. Bradford:2008. Vol. 38, Iss. 6, p. 570-577
Keywords:Legumes; Soaking; Cooking; Nutritional status; Quality; Food safety

2010
SCIENCEDIRECT

806. Benefits of a high legume diet as demonstrated in the model system/ C. Elegans, …[*et al*.]
Journal of the American Dietetic Association, Volume 110,

Issue 9, Supplement 1, ADA Food & Nutrition Conference & Expo, ADA Food & Nutrition Conference & Expo, September 2010, p. A56, ISSN 0002-8223
Keywords: Legumes; Diet treatment; Models

2011
SCIENCEDIRECT

807. Comparative study of physicochemical and conformational properties in three vicilins from Phaseolus legumes: implications for the structure-function relationship/ Chuan-He Tang, Xin Sun
Food Hydrocolloids, Volume 25, Issue 3, May 2011, p. 315-324, ISSN 0268-005X
Keywords: Vicilin; Legumes; Storage proteins; Physicochemical properties; Conformation flexibility; Structure function relationship; Emulsifying

808. Sumner, a legume specific protein database (LegProt) improves the number of identified peptides, confidence scores and overall protein identification success rates for legume proteomics/ Zhentian Lei …[*et al*.]
Phytochemistry, In Press, Corrected Proof, Available online 23 February 2011, ISSN 0031-9422
Keywords: Medicago truncatula; Glycine max; Lotus japonicus; Medicago sativa; Lupinus albus; Phaseolus vulgaris; Pisum sativum; Legume proteomics; Proteins; Identification Tandem mass spectrometry

LEGUM PUPUK HIJAU

2006
SCIENCEDIRECT

809. Land-use and legumes in Northern Namibia: value of a local classification system/ A.E.M. Hillyer, J.F. McDonagh, A. Verlinden
Agriculture, Ecosystems & Environment, Volume 117, Issue 4, December 2006, p. 251-265, ISSN 0167-8809
Keywords:Northern Namibia; Soil fertility; Ethnopedology; Legumes;Land use

810. Management of a previously eroded tropical Alfisol with herbaceous legumes: Soil loss and physical properties under mound tillage/ F.K. Salako, G. Kirchhof, G. Tian
Soil and Tillage Research, Volume 89, Issue 2, September 2006, p. 185-195, ISSN 0167-1987
Keywords: Alfisols; West Africa; Cover crops; Traditional tillage; Residues; Soil erosion

811. Phosphate-solubilizing Pseudomonas putida can influence the rhizobia-legume symbiosis/ Susana B. Rosas…[*et al*.]
Soil Biology and Biochemistry, Volume 38, Issue 12, December 2006, p. 3502-3505, ISSN 0038-0717
Keywords: Phosphate solubilizing bacteria; Pseudomonas; Rhizobia; Nitrogen fixation; Co inoculation

812. Productivity and quality, competition and facilitation of chicory in ryegrass/legume-based pastures under various nitrogen supply levels/ Henning Hogh-Jensen, Bea Nielsen, Stig Milan Thamsborg
European Journal of Agronomy, Volume 24, Issue 3, April 2006, p. 247-256, ISSN 1161-0301
Keywords: Chicory; Grassland mixtures; Pastures; Quality; Productivity; Nitrogen management

813. Role of arbuscular mycorrhiza in legume symbiotic performance/ P.M. Chalk…[*et al*.]
Soil Biology and Biochemistry, Volume 38, Issue 9, September 2006, p. 2944-2951, ISSN 0038-0717
Keywords: Legumes; Rhizobium; Symbiotic dependence; Arbuscular mycorrhiza

814. Transfer of N fixed by a legume tree to the associated grass in a tropical silvopastoral system/ Jorge Sierra, Pekka Nygren
Soil Biology and Biochemistry, Volume 38, Issue 7, July 2006, p. 1893-1903, ISSN 0038-0717
Keywords: Dichanthium aristatum; Gliricidia sepium; 15N natural abundance; Soil 15N fractionation; Fine root density

2007
PROQUEST

815. Niche-based assessment of contributions of legumes to the nitrogen economy of Western Kenya smallholder farms/ John O Ojiem …[*et al*.]
Plant and Soil. The Hague:Mar 2007. Vol. 292, Iss. 1-2, p. 119-135
Keywords:Legumes; Nitrogen economy; Western Kenya

816. Participatory research on legume diversification with malawian smallholder farmers for improved human nutrition and soil fertility; Smallholder diversification with legumes/ Rachel bezner kerr ...[*et al*.]
Experimental Agriculture. Cambridge:Oct 2007. ol. 43, Iss. 4, p. 437-453
Keywords: Legumes; Diversification; Participatory research; Human nutrition; Soil fertility

SCIENCEDIRECT

817. Does the enhanced P acquisition by maize following legumes in a rotation result from improved soil P availability?/ Pieter Pypers …[*et al*.]
Soil Biology and Biochemistry, Volume 39, Issue 10, October 2007, p. 2555-2566, ISSN 0038-0717
Keywords: Legumes; Cereals; Crop rotation; Maize; Mucuna pruriens; Phosphorus; Nutrient deficiencies; Nutrient uptake; Rock phosphate; Nutrient availability; Soil solution; Residue incorporation

818. Economics of reduced tillage for cereal and legume production on rainfed farm enterprises of different sizes in semiarid conditions/ V. Sanchez-Giron …[*et al*.]
Soil and Tillage Research, Volume 95, Issues 1-2, September 2007, p. 149-160, ISSN 0167-1987
Keywords: Rainfed tillage systems; Economic analysis; Crop rotation; Winter wheat; Legumes; Fallow; Crop production

819. Identification and expression regulation of symbiotically activated legume genes/ Helge Kuster …[*et al*.]
Phytochemistry, Volume 68, Issue 1, Molecular Basics of Mycorrhizal Symbiosis, January 2007, p. 8-18, ISSN 0031-9422
Keywords:Medicago truncatula; Vicia faba; Arbuscular mycorrhiza; In silico transcriptome profiling; Microarray based expression profiling; Promoter analysis; Root nodules; Symbiosis genes

820. Improved legume tree fallows and tillage effects on structural stability and infiltration rates of a kaolinitic sandy soil from central Zimbabwe/ G. Nyamadzawo …[*et al*.]
Soil and Tillage Research, Volume 96, Issues 1-2, October 2007, p. 182-194, ISSN 0167-1987
Keywords:Fallows; Tillage; Soil organic carbon; Legumes; Aggregate stability; Infiltration rates; Kaolinite; Sandy soils

821. Potential use of the legume-rhizobium symbiosis for the remediation of arsenic contaminated sites/ S.M. Reichman
Soil Biology and Biochemistry, Volume 39, Issue 10, October 2007, p. 2587-2593, ISSN 0038-0717
Keywords: Arsenic; Bradyrhizobium japonicum; Legumes; Nitrogen fixation; Glycine max; Plant growth promoting bacteria; Rhizobium

822. Tripartite symbiosis between legumes, rhizobia and indigenous mycorrhizal fungi is more efficient in undisturbed soil/ A. de

Varennes, M.J. Goss
Soil Biology and Biochemistry, Volume 39, Issue 10, October 2007, p. 2603-2607, ISSN 0038-0717
Keywords: Medicago truncatula; Interaction; Nitrogen fixation; Rhizobia; Arbuscular mycorrhizal fungi; Soil disturbance

2008
SCIENCEDIRECT

823. Dynamics of residue decomposition and N2 fixation of grain legumes upon sugarcane residue retention as an alternative to burning/ Saowakon Hemwong …[*et al*.]
Soil and Tillage Research, Volume 99, Issue 1, April 2008, p. 84-97, ISSN 0167-1987
Keywords:Sugarcane residues; Burning; Incorporation; Mulching; Nitrogen immobilization; Nitrogen fixation; Groundnuts; Soybeans; Grain legumes

824. Earthworms as drivers of the competition between grasses and legumes/ Nico Eisenhauer, Stefan Scheu
Soil Biology and Biochemistry, Volume 40, Issue 10, October 2008, p. 2650-2659, ISSN 0038-0717
Keywords: Above ground below ground interactions; Aphid infestation; Competition; Flowering success; Grasslands; Lumbricus terrestris; Nitrogen uptake; Quality of forage; Stable isotopes

825. Interaction among N-fixing bacteria and AM fungi in Amazonian legume tree (*Schizolobium amazonicum*) in field conditions/ Marco Antonio Siviero …[*et al*.] *Applied Soil Ecology*, Volume 39, Issue 2, June 2008, p. 144-152, ISSN 0929-1393
Keywords:Schizolobium amazonicum; Agroforestry; Amazon; Mycorrhizae; Nitrogen fixation

826. Mixed-species legume fallows affect faunal abundance and richness and N cycling compared to single species in maize-fallow rotations/ Gudeta Sileshi …[*et al*.]
Soil Biology and Biochemistry, Volume 40, Issue 12, December 2008, p. 3065-3075, ISSN 0038-0717
Keywords: Cajanus; Litter; Decomposition; Sesbania; Tephrosia; Zambia; Soil mineral N; Soil fauna

827. Vertical distribution of microbial communities under the canopy of two legume bushes in the Tehuacan Desert, Mexico/ Salvador Rodriguez-Zaragoza …[*et al*.]
European Journal of Soil Biology, Volume 44, Issue 4, July-August 2008, p. 373-380, ISSN 1164-5563
Keywords: Heterotrophic diazotrophs; Fertility islands; Prosopis laevigata; Parkinsonia praecox; Desert soil system; Soil microbial communities

2009
PROQUEST

828. Isotopic tracing of phosphorus uptake in corn from 33P labelled legume residues and 32P labelled fertilisers applied to a sandy loam soil/ Gunasekhar Nachimuthu …[*et al*.]
Plant and Soil. The Hague:Jan 2009. Vol. 314, Iss. 1-2, p. 303-310
Keywords: Legumes; Phosphates; Corn; Soil types

829. Nitrogen contribution through Sesbania green manure and dual-purpose legumes in maize-wheat cropping system: agronomic and economic considerations/ A R Sharma, U K Behera
Plant and Soil. The Hague:Dec 2009. Vol. 325, Iss. 1-2, p. 289-304
Keywords: Legumes; Green manures; Maize; Agropyron; Cropping systems; Nitrogen

SCIENCEDIRECT

830. Absolute values only show part of the whole: Evidence of P limitation in legumes in the CFR from N:P ratios/ G. Duckworth,

S.B.M. Chimphango
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 432, ISSN 0254-6299
Keywords: Legumes; Nitrogen; Phosphorus; CFR

831. Controlled ectomycorrhization of an exotic legume tree species *Acacia holosericea* affects the structure of root nodule bacteria community and their symbiotic effectiveness on Faidherbia albida, a native Sahelian Acacia/ A. Faye …[*et al*.]
Soil Biology and Biochemistry, Volume 41, Issue 6, June 2009, p. 1245-1252, ISSN 0038-0717
Keywords:Legumes; Ectomycorrhizal symbiosis; Bradyrhizobia; Acacia holosericea; Pisolithus albus; Soil biology; Root nodulation

832. Effects of plant age and rock phosphate on quality and nutrient release of legume residue/ I. Abarchi …[*et al*.]
Pedosphere, Volume 19, Issue 1, February 2009, p. 78-85, ISSN 1002-0160
Keywords: Legumes; Nutrient availability; Plant age; Quality; Residues; Maturity; Polyphenol; Biomass; Seed production; Rock phosphate

833. Effects of water and nitrogen availability on nitrogen contribution by the legume, *Lupinus argenteus* Pursh/ Erin Goergen, Jeanne C. Chambers, Robert Blank
Applied Soil Ecology, Volume 42, Issue 3, July 2009, p. 200-208, ISSN 0929-1393
Keywords: Rhizodeposition; Nitrogen fixation; Artemisia; Silver lupine; Lupinus argenteus; Water availability

834. Experimental and modelling exploration of the host-sanction hypothesis in legume-rhizobia mutualism/ Diana E. Marco …[*et al*.]
Journal of Theoretical Biology, Volume 259, Issue 3, 7 August 2009, p. 423-433, ISSN 0022-5193
Keywords:Mutualism; Cheating; Legumes; Rhizobia symbiosis; Host sanctions; Experiment based modeling

835. Growth responses of the perennial legume Sesbania sesban to NH4 and NO3 nutrition and effects on root nodulation/ Truong

Hoang Dan, Hans Brix
Aquatic Botany, Volume 91, Issue 3, October 2009, p. 238-244, ISSN 0304-3770
Keywords: Ammonium; Hydroponics; Nitrates; Nitrogen fixation; Nutrition; Legumes; Growth; Wetland

836. Isolation of rhizobia from Lebeckia species indigenous to South Africa and their nodulation properties on Lebeckia and the promiscuous legumes cowpea and siratro/ F.L. Phalane ...[*et al*.]
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 438, ISSN 0254-6299
Keywords:Legumes; Cowpeas; Rhizobium; Indigenous organisms

837. Legume living mulch for afforestation in agricultural land in Southern Spain/ Rafael M[feminine ordinal indicator] …[*et al*.]
Soil and Tillage Research, Volume 102, Issue 1, January 2009, p. 38-44, ISSN 0167-1987
Keywords: Afforestation; Weed control; Living mulch; Mediterranean species; Medicago rugosa; Spain

838. Mechanistic molecular test of the plant-sanction hypothesis in legume-rhizobia mutualism/ Diana E. Marco …[*et al*.]
Acta Oecologica, Volume 35, Issue 5, September-October 2009, p. 664-667, ISSN 1146-609X
Keywords:Legumes; Rhizobia mutualism; Plant host sanctions; Mechanistic molecular test; Soybeans; Varieties

839. Multi-site field evaluation of granular inoculants for legume nodulation/ Matthew D. Denton…[*et al*.]
Soil Biology and Biochemistry, Volume 41, Issue 12, December 2009, p. 2508-2516, ISSN 0038-0717
Keywords:Bradyrhizobium; Chickpeas; Faba beans; Granules; Lentils; Lupinus; Mesorhizobium; Meta analysis; Nitrogen fixation; Nodules; Peas; Grain legumes; Rhizobium

840. Nitrous oxide emissions associated with nitrogen fixation by grain legumes/ Zhaozhan Zhong, Reynald L. Lemke, Louise M. Nelson
Soil Biology and Biochemistry, Volume 41, Issue 11, November 2009, p. 2283-2291, ISSN 0038-0717
Keywords: Grain legumes; Nitrogen fixation; Rhizobium; Denitrification

841. Novel strains of nodulating Burkholderia have a role in nitrogen fixation with papilionoid herbaceous legumes adapted to acid, infertile soils/ Giovanni Garau …[*et al*.]
Soil Biology and Biochemistry, Volume 41, Issue 1, January 2009, p. 125-134, ISSN 0038-0717
Keywords: Burkholderia; Beta rhizobia; Rhynchosia ferulifolia; Symbiosis; Nitrogen fixation; Papilionoid legumes

842. Variation in symbiotic N2 fixation of indigenous Cape Floristic Region legumes grown at low P supply/ P.M. Maistry, S.B.M. Chimphango, M.D. Cramer
South African Journal of Botany, Volume 75, Issue 2, April 2009, p. 435-436, ISSN 0254-6299
Keywords: Legumes; Nitrogen fixation; Indigenous organisms; Phosphorus; Organophosphorus compounds

2010
SCIENCEDIRECT

843. Dicyandiamide enhances liming potential of two legume materials when incubated with an acid Ultisol/ Jia Mao …[*et al*.]
Soil Biology and Biochemistry, Volume 42, Issue 9, September 2010, p. 1632-1635, ISSN 0038-0717
Keywords: Acid soils; Soil amendments; Dicyandiamide; Legume material; Nitrification; Soil pH

844. Efficiency of nitrogen fixation of the model legume *Medicago truncatula* (Jemalong A17) is low compared to *Medicago sativa*/ Saad Sulieman, Joachim Schulze
Journal of Plant Physiology, Volume 167, Issue 9, 15 June 2010, p. 683-692, ISSN 0176-1617

Keywords:Medicago sativa; Medicago truncatula; Nitrogen fixation; Nodules; Symbiosis

845. Interactions between Glomus species and Rhizobium strains affect the nutritional physiology of drought-stressed legume hosts/ Vinicius Ide Franzini …[*et al*.]
Journal of Plant Physiology, Volume 167, Issue 8, 15 May 2010, p. 614-619, ISSN 0176-1617
Keywords:Arbuscular mycorrhizal fungi; Drought; Nitrogen fixation; Phaseolus vulgaris; Rhizobium

846. Rehabilitation of Mediterranean anthropogenic soils using symbiotic wild legume shrubs: Plant establishment and impact on the soil bacterial community structure/ Massimiliano Cardinale …[*et al*.]
Applied Soil Ecology, Volume 46, Issue 1, September 2010, p. 1-8, ISSN 0929-1393
Keywords: Anthropogenic soil rehabilitation; Mediterranean legume shrubs; Rhizobia; Arbuscular mycorrhizal fungi; ARISA; Soil bacterial communities

847. Responses of legumes to rhizobia and arbuscular mycorrhizal fungi: A meta-analysis of potential photosynthate limitation of symbioses/ Glaciela Kaschuk …[*et al*.]
Soil Biology and Biochemistry, Volume 42, Issue 1, January 2010, p. 125-127, ISSN 0038-0717
Keywords: Sink stimulation; Photosynthesis; Inoculation; Yields; Harvest index; Proteins; Lipids

848. Thornton, Impacts of fertilisers and legumes on N2O and CO2 emissions from soils in subtropical agricultural systems: a simulation study/ N.I. Huth, P.J. Thorburn, B.J. Radford
Agriculture, Ecosystems & Environment, Volume 136, Issues 3-4, Estimation of nitrous oxide emission from ecosystems and its mitigation technologies, 15 March 2010, p. 351-357, ISSN 0167-8809
Keywords: Legumes Greenhouse gases; Carbon sequestration; Nitrous oxide; Carbon dioxide; Crop management; Leaching; Soil organic

matter

2011
SCIENCEDIRECT

849. Grass-legume mixtures can yield more nitrogen than legume pure stands due to mutual stimulation of nitrogen uptake from symbiotic and non-symbiotic sources/ Daniel Nyfeler …[*et al*.]
Agriculture, Ecosystems & Environment, Volume 140, Issues 1-2, 30 January 2011, p. 155-163, ISSN 0167-8809
Keywords:Competition; Grasses; Facilitation; Nitrogen uptake; Symbiotic nitrogen fixation; Yields; Mixed farming

850. Symbiovars in rhizobia reflect bacterial adaptation to legumes/ Marco A. Rogel …[*et al*.]
Systematic and Applied Microbiology, Volume 34, Issue 2, April 2011, p. 96-104, ISSN 0723-2020
Keywords: Legumes; Symbiosis; Nitrogen fixation; Rhizobium diversity

INDEK SUBYEK

C

E

F

M

T