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Jalan Ir. H. Juanda 20, Bogor 16122, Indonesia

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AGROINDUSTRIAL SECTOR; HUMAN RESOURCES; INDUSTRY; ECONOMIC SITUATION.

C30 DOCUMENTATION AND INFORMATION / DOKUMENTASI DAN INFORMASI

0302 JOSHI, L. Knowledge-based systems (KBS) approach to access farmers' local knowledge about ecology and biodiversity/Joshi, L. (International Center for Research in Agroforestry South East Asia, Bogor (Indonesia)). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 111-126 3 ill., 4 tables; 35 ref.

FARMERS; KNOWLEDGE BASED SYSTEMS; INDIGENOUS KNOWLEDGE; ECOLOGY; AGROFORESTRY BIODIVERSITY.

D50 LEGISLATION / HUKUM DAN PERATURAN PERUNDANG-UNDANGAN

0303 GOENADI, D.H. [Protection of intellectual property rights]. Perlindungan hak atas kekayaan intelektual/Goenadi, D.H. (Unit

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INDONESIA; LEGAL RIGHTS; LAW; PATENTS; SOIL SCIENCES.

E10 AGRICULTURAL ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN NASIONAL MENGENAI PERTANIAN

0304 RAHARJO, A. [Impact of economic factor change on Indonesian prawn marketing in domestic and international markets]. Dampak perubahan faktor ekonomi terhadap perdagangan udang Indonesia di pasar domestik dan internasional/Raharjo, A.; Sinaga, B.M.; Ratnawati, A.; Kusumastanto, T.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 79-80

PRAWNS AND SHRIMPS; TRADE; DOMESTIC MARKETS; WORLD MARKETS; ECONOMIC DEVELOPMENT; EXPORTS; IMPORTS.

0305 WACHYAN, A. [Strategy in agribusiness system development in West Java (Indonesia)]. Strategi pengembangan sistem agribisnis dan usaha di Jawa Barat/Wachyan, A. (Badan Perencanaan Daerah Propinsi Jawa Barat, Bandung (Indonesia)). [Integrated farming development in agribusiness oriented supporting the use of agricultural resources in West Java (Indonesia)]. Pengembangan usahatani terpadu berwawasan agribisnis menunjang pemanfaatan sumberdaya pertanian Jawa Barat/Balai Pengkajian Teknologi Pertanian Jawa Barat, Lembang (Indonesia). Lembang (Indonesia): BPTP Jawa Barat, 2002 (pt. 1) p. 1-14 11 tables. Summary (In)

AGRICULTURAL ECONOMICS; AGRO-INDUSTRIAL SECTOR; AGRICULTURAL

POLICIES; PRODUCTION LOCATION;
WEST JAVA.

**E11 LAND ECONOMICS AND POLI-
CIES / EKONOMI DAN KE-
BIJAKSANAAN NASIONAL
MENGENAI LAHAN**

0306 ARIFIN, B. Methods to assess economic and environmental benefits of management of agrobiodiversity for sustainable land use/Arifin, B. (Universitas Lampung, Bandar Lampung (Indonesia)). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits /Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 127-131 2 ref.

BIODIVERSITY; MANAGEMENT; LAND
USE; SUSTAINABILITY.

0307 DJAKARIA, R. [Land use planning: its relation with regional autonomy]. Penataan tanah kaitannya dengan otonomi daerah/Djakaria, R. (Sekretaris Jenderal Departemen Kehutanan dan Perkebunan, Jakarta (Indonesia)). Proceedings of National Congress on Soil Science of Indonesia, the seventh: potentially matched soil resource utilization towards environment equalization to increase people prosperity. Prosiding Kongres Nasional 7 HITI. Pemanfaatan sumber daya tanah sesuai dengan potensinya menuju keseimbangan lingkungan hidup dalam rangka meningkatkan kesejahteraan rakyat. Buku I/Djakasutami, H.S.; Sarief, H.E.S.; Hasan, H.T.S.; Wibowo, H.Z.S.; Arifin, M. (eds.) Himpunan Ilmu Tanah Indonesia. Bandung (Indonesia): HITI, 2000 p. 23-29 3 ref.

LAND USE; LAND POLICIES; REGIONAL
DEVELOPMENT.

0308 GAFUR, A. Impacts of different land use systems on the abundance of soil-borne pathogens/Gafur, A. (Universitas Lampung, Bandar Lampung (Indonesia)); Darmono, T.W.. Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global

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SOIL MICROORGANISMS; PATHOGENS;
BIOLOGICAL CONTROL; LAND USE.

0309 HENDRAWATI, T. [Rainfed lowland management with environment perspective]. Pengelolaan lahan sawah tadah hujan berwawasan lingkungan/Hendrawati, T. (Kantor Menteri Negara Lingkungan Hidup, Jakarta (Indonesia)). Proceedings of the National Seminar on Food Crops Cultivation with Environment Perspective]. Prosiding Seminar Nasional Budidaya Tanaman Pangan Berwawasan Lingkungan/Hermanto; Suni-hardi (eds.) Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor (Indonesia): PUSLIT-BANGTAN, 2001 p. 21-35 8 ill., 7 tables

IRRIGATED LAND; RAINFED FARMING;
WATER RESERVOIRS; LAND MANAGE-
MENT; ALTERNATIVE AGRICULTURE;
ORGANIC FERTILIZERS; CROP
MANAGEMENT; SUSTAINABILITY.

0310 MUHAMAD, M.Z. Management of tropical peatlands in Indonesia: Mega Reclamation Project in Central Kalimantan (Indonesia)/Muhamad, M.Z.; Rieley, J.O. (University of Nottingham (United Kingdom)). Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 155-162 2 ill., 13 ref. Summary (En)

PEATLANDS; LAND MANAGEMENT;
LAND USE; FOREST FIRES;
KALIMANTAN; INDONESIA.

0311 NOORDWIJK, M.V. Evolution of land use types in Indonesia and selection of Lampung (Tulang Bawang) and Jambi (Batang Hari) transects/Noordwijk, M.V. (International Center for Research in Agroforestry South East Asia, Bogor (Indonesia)). Proceedings of Workshop on

Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 161-175 7 ill., 1 table; 10 ref.

SUMATRA; LAND USE; EVOLUTION; NATURAL RESOURCES; RESOURCE MANAGEMENT; WATERSHEDS.

0312 NOTOHADIPRAWIRO, T. [Soil utilization in harmony with nature]. Memanfaatkan tanah selaras dengan alam/Notohadiprawiro, T. Proceedings of National Congress on Soil Science of Indonesia, the seventh: potentially matched soil resource utilization towards environment equalization to increase people prosperity. Prosiding Kongres Nasional 7 HITI. Pemanfaatan sumber daya tanah sesuai dengan potensinya menuju keseimbangan lingkungan hidup dalam rangka meningkatkan kesejahteraan rakyat. Buku I/Djakasutami, H.S.; Sarief, H.E.S.; Hasan, H.T.S.; Wibowo, H.Z.S.; Arifin, M. (eds.) Himpunan Ilmu Tanah Indonesia. Bandung (Indonesia): HITI, 2000 p. 51-65 2 ill., 18 ref.

LAND USE; SOIL CONSERVATION; SOIL DEGRADATION.

0313 PERTIWI, S. [Development of decision supporting system for conservation agricultural system management in dry land]. Pengembangan paket sistem penunjang keputusan untuk manajemen sistem pertanian konservasi di lahan kering/Pertiwi, S.; Suhartono, Y.; Sukartaatmadja, S.; Hermawan, W. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003 /Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 156

DRY FARMING; LAND MANAGEMENT; COMPUTER SOFTWARE.

0314 UTOYO S., B. [Linkage analysis between regional growth with change pattern of land use structure]. Analisis keterkaitan antara pertumbuhan wilayah dengan pola perubahan struktur penggunaan lahan/Utoyo S., B.; Anwar, A.; Sandy, I M.; Saefulhakim, R.S.; Santoso, H.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 159-162

SUMATRA; LAND USE; STRUCTURAL CHANGE.

E14 DEVELOPMENT ECONOMICS AND POLICIES / EKONOMI DAN KEBIJAKSANAAN PEMBANGUNAN

0315 ALKADRI. [Impact of infrastructure development to economic growth of Pontianak, West Kalimantan (Indonesia)]. Dampak pembangunan infrastruktur terhadap pertumbuhan ekonomi di Kota Pontianak/Alkadri (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)). Jurnal Sains dan Teknologi Indonesia (Indonesia): Pengembangan Wilayah dan Lingkungan ISSN 1410-9409 (2000) v. 2(4) p. 87-97 6 tables; 18 ref. Summary (En)

KALIMANTAN; ECONOMIC GROWTH; ECONOMIC DEVELOPMENT; INFRASTRUCTURE; ECONOMETRICS.

0316 SROEWONO. [Necessity of specific location technology in regional development of Yogyakarta (Indonesia)]. Kebutuhan teknologi spesifik lokasi dalam pengembangan wilayah kecamatan sebagai sentra pertumbuhan ekonomi baru di DI Yogyakarta /Sroewono (Badan Perencanaan Pembangunan Daerah Propinsi D.I. Yogyakarta (Indonesia)). [Proceeding of the Seminar on Specific Location Agricultural Technology on Increasing Farmers Welfare and Environment Conservation]. Seminar Teknologi Pertanian Spesifik Lokasi Dalam Upaya Peningkatan Kesejahteraan Petani dan Pelestarian Lingkungan/Musofie, A.; Wardhani, N.K.; Shiddieq, D.; Soeharto; Mudjisiyono, R.; Aliudin; Hutabarat, B. (eds.) Instalasi Penelitian dan Pengkajian Teknologi Pertanian, Yogyakarta (Indonesia). Yogyakarta (Indonesia): IPPTP, 2000 p. 17-20 3 ref.

JAVA; ECONOMIC DEVELOPMENT; TECHNOLOGY; DEVELOPMENT POLICIES.

**E16 PRODUCTION ECONOMICS /
EKONOMI PRODUKSI**

0317 GOENNER, C. Economic valuation model untuk Taman Nasional Sembilang/ Goenner, C.. *Warta Konservasi Lahan Basah (Indonesia)* ISSN 0854-963X (2002) v. 10(2) p. 12-13 2 ill., 1 table

NATURE CONSERVATION; WETLANDS; ECONOMICS; MODELS; VALUATION; SUMATRA.

0318 KARAMA, A.S. [Strategy of agribusiness development for food crops production on 2001, El-nino anticipation on 2002 and monthly production planning]. Strategi pengembangan agribisnis pencapaian produksi komoditas unggulan tanaman pangan tahun 2001 danantisipasi El-nino 2002 serta rencana pemerataan produksi bulanan/ Karama, A.S. (Direktorat Jenderal Tanaman Pangan, Jakarta (Indonesia)). [Proceedings of the National Workshop on Strategy of Agribusiness Development on Food Crops Production on 2001, and even distribution for monthly product]. *Prosiding Lokakarya Nasional Strategi Pengembangan Agribisnis Produksi Komoditi Unggulan Tanaman Pangan TA 2001 serta pemerataan produksi bulanan/Sola, M.; Agusman; Munir, S.; Thoyib, M.; Mulyadi (eds.) Direktorat Tanaman Serealia, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Tanaman Serealia, 2002 p. 6-12*

FOOD CROPS; PRODUCTION CONTROL; SEASONS; RESOURCE MANAGEMENT; AGROINDUSTRIAL SECTOR.

0319 PRABOWO, R.E. [Comparative study of profit sharing contract system on cattle and other livestock husbandry in Boyolali, Central Java (Indonesia)]. Studi perbandingan sistem kontrak bagi hasil pada pengusahaan ternak sapi dengan usaha ternak lain di Kabupaten Boyolali, Jawa Tengah/Prabowo, R.E.; Mudikdjo, K.; Anwar, A.; Saefulhakim, S.. *Forum Pascasarjana (Indonesia)* ISSN 0126-1886 (2001) v. 24(2) p. 154-156

CATTLE; ANIMAL HUSBANDRY; PROFIT; JAVA.

0320 WANA, H. [Production factors analysis on dryland in Indonesia]. Analisis faktor-faktor produksi pada lahan kering di

Indonesia/Wana, H.; Kuntjoro, S.U.; Hutagaol, P.. *Forum Pascasarjana (Indonesia)* ISSN 0126-1886 (2001) v. 24(2) p. 69-71

FOOD CROPS; PRODUCTION FACTORS; DRY FARMING; INDONESIA.

**E20 ORGANIZATION, ADMINIS-
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SASI, ADMINISTRASI DAN
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PERTANIAN/USAHA TANI**

0321 ANON. [Rearing of native chickens in the backyard]. Ayam kampung menuai untung di samping rumah/Anon. *Agromedia (Indonesia)* (2001) v. 1(3) p. 11-12 2 ill.

CHICKENS; ANIMAL HUSBANDRY; ENVIRONMENT; FEEDS.

0322 ANWAR, S. [Institutions analysis of community forest management: case study in Bukit Dua Belas forest area, Jambi (Indonesia)]. Analisis kelembagaan pengelolaan hutan masyarakat rimba: studi kasus di kawasan hutan Bukit Dua Belas, Jambi/ Anwar, S.; Darusman, D.; Kartodihardjo, H.. *Forum Pascasarjana (Indonesia)* ISSN 0126-1886 (2001) v. 24(2) p. 130

SUMATRA; FOREST MANAGEMENT; COMMUNAL FORESTS; FORESTS.

0323 EFIESER, S. [Economic analysis of partnership institutions on sheep farming systems on dryland in North Sumatra (Indonesia)]. Analisis ekonomi kelembagaan kemitraan dalam sistem pengembangan usaha ternak domba pada lahan kering di Propinsi Sumatera Utara/Efieser, S.; Gonarsyah, I.; Anwar, A.; Mudikdjo, K.. *Forum Pascasarjana (Indonesia)* ISSN 0126-1886 (2001) v. 24(2) p. 157-158

SHEEP; FARMING SYSTEMS; ECONOMIC ANALYSIS; PARTNERSHIPS; SUMATRA.

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JAVA; SUMATRA; RURAL AREAS.

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PEPPER; POWDERS; PROFIT; FARM INCOME; FARMERS; PROCESSING.

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SUMATRA; FOREST RESERVES; ECONOMIC VALUE; FEED CROPS.

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FOOD CROPS; FOOD SECURITY; AGROINDUSTRIAL SECTOR; AGRICULTURAL RESOURCES; TRADITIONAL TECHNOLOGY; TECHNOLOGY TRANSFER.

E21 AGROINDUSTRY / AGRO-INDUSTRI

0334 HARTOYO, S. [Study of tropical fruits competitiveness and its development strategy]. Kajian daya saing buah-buahan tropik dan strategi pengembangannya/ Hartoyo, S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 145-146

TROPICAL FRUITS; TRADE; ECONOMIC COMPETITION; DEVELOPMENT POLICIES.

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0344 DJAENUDIN, R.D. [Domestic market analysis of vegetable oils: impact of government policies and trade liberalization]. Analisis pasar minyak goreng domestik: dampak kebijakan pemerintah dan kemungkinan pemberlakuan liberalisasi perdagangan/Djaenudin, R.D.; Gonarsyah, I.; Wagiono, Y.K.; Hartoyo, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 75-76

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SOYBEANS; DOMESTIC PRODUCTION; IMPORTS; MARKETING; MARKETING CHANNELS; MARKETING MARGINS; PRICES; QUALITY.

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POTATOES; PROCESSED FOODS; CONSUMPTION; SOUTH EAST ASIA; DEMAND FUNCTIONS; INDONESIA.

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PEPPER; PRODUCTION INCREASE; SUPPLY BALANCE; DOMESTIC MARKETS; WORLD MARKETS.

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0348 ELWAMENDRI. [Natural rubber trade policies between main producer country and united states]. Perdagangan karet alam antara negara produsen utama dan Amerika Serikat/Elwamendri; Sinaga, B.M.; Limbong, W.H.; Ratnawati, A.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 81-82

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OIL PALMS; ECONOMETRIC MODELS; INDUSTRIAL SECTOR; PLANT PRODUCTION; IMPORTS; EXPORTS; TRADE LIBERALIZATION; TRADE POLICIES; INDONESIA.

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COTTON; PRODUCTION; TRADE POLICIES; ECONOMIC ANALYSIS; IMPORTS; MARKETING CHANNELS; INDONESIA.

E73 CONSUMER ECONOMICS / EKONOMI KONSUMEN

0352 RATNAWATI, A. [Consumer preference and decision making pattern to fruit consumption]. Kesukaan dan pola pengambilan keputusan konsumen terhadap konsumsi buah-buahan/Ratnawati, A.; Mardiyanto, S.; Suryana, R.N. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian

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FRUITS; CONSUMER BEHAVIOUR; CONSUMPTION; MARKETING; DEVELOPMENT POLICIES.

F01 CROP HUSBANDRY / PERTANAMAN

0353 ABAS, T. [Tea harvesting by machine on level land]. Pemetikan teh dengan mesin pada lahan datar/Abas, T. (Pusat Penelitian Teh dan Kina, Gambung (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4427 (2002) v. 24(4) p. 5-6 1 ill.

CAMELLIA SINENSIS; HARVESTING; PICKING; MACHINERY.

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GARCINIA MANGOSTANA; CULTIVATION; SHADING; FERTILIZER APPLICATION.

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SOLANUM TUBEROSUM; CULTIVATION; SEEDLINGS; SEED PRODUCTION; QUALITY; TRANSFER TECHNOLOGY.

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(Indonesia)]. Budidaya jamur tiram putih sebagai alternatif usahatani sayuran untuk meningkatkan pendapatan di Desa Langensari Majalaya/Hamdani, J.S.; Sumadi; Qosim, W.A.; Kusumiyati (eds.) Universitas Padjadjaran, Bandung (Indonesia). Lembaga Pengabdian Masyarakat. Bandung (Indonesia): UNPAD, 2001 27 p. 1 table. Summary (In). Appendices

EDIBLE FUNGI; CULTIVATION; FARMING SYSTEMS; FARM INCOME; INNOVATION ADOPTION; JAVA.

0357 LATIFAH, S. [Performance of *Acacia mangium* growth on tin mining waste land]. Keragaan pertumbuhan *Acacia mangium* Willd. pada lahan bekas tambang timah: studi kasus di areal kerja PT Timah tbk/Latifah, S.; Setiadi, Y.; Kusmana, C.; Suhendang, E.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 128-129

ACACIA MANGIUM; GROWTH; TIN; WASTE LAND.

0358 MURDIYARSO, D. [Agroecological aspect and cultivation technique of irrigated rice on methane emission control on optimum level of rice production]. Segi agroekologi dan teknik budi daya padi sawah dalam pengendalian emisi metana pada tingkat produksi padi optimum/Murdiyarsa, D. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Triwidodo, H. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 135

IRRIGATED RICE; CULTIVATION; AGRONOMY; ECOLOGY; METHANE; POLLUTION CONTROL; INTEGRATED CONTROL; IRRIGATION; YIELDS.

0359 NURAINI, A. . [Verticulture of vegetable crops in the backyard in Pasigaran Village, Tanjungsari, Sumedang (Indonesia)]. Peningkatan pemanfaatan pekarangan dengan bertanam sayuran secara vertikutur di Desa Pasigaran Kecamatan Tanjungsari Kabupaten Sumedang/Nuraini, A.; Kurniadie, H.D.;

Sobardini, D. Universitas Padjadjaran, Bandung (Indonesia). Fakultas Pertanian. Bandung (Indonesia): UNPAD, 2001 30 p. 2 tables; 4 ref. Summary (In). Appendices

VEGETABLE CROPS; CULTIVATION; FARMING SYSTEMS; SMALL FARMS; EXTENSION ACTIVITIES; INCOME; JAVA.

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MANGIFERA INDICA; PRODUCTION; TECHNOLOGY; PACLOBUTRAZOL; CALCIUM NITRATE; GIBBERELIC ACID; AUXINS; APPLICATION RATES.

0361 POERWANTO, R. [Growth and development of tropical fruits]. Pertumbuhan dan perkembangan pohon buah-buahan tropik: memperpendek masa tanaman belum menghasilkan dan menginduksi/Poerwanto, R.; Efendi, D. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Hariyono, D.; Sari, R.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 119-120

FRUIT CROPS; TROPICAL FRUITS; GROWTH; INDUCED FLOWERING; PACLOBUTRAZOL; GIGASPORA; GROWING MEDIA; FLOWERING; OFF SEASON PRODUCTS.

0362 PRAMUDYA, B. [Optimum planning design for selective mechanical cultivation of sugarcane in sugar factory]. Rancangan

perencanaan optimum untuk budidaya tebu secara mekanis selektif di perusahaan industri gula/Pramudya, B.; Djojomartono, M.; Pertiwi, S.; Solahudin, N.D.M. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 200

SACCHARUM OFFICINARUM;
CULTIVATION; PLANNING; COMPUTER
SOFTWARE; WORKERS; EQUIPMENT;
MACHINERY INDUSTRY; COST
ANALYSIS; SUGAR INDUSTRY.

0363 PURWANTO, M.Y.J. [Study of gaga rancah application in technical irrigated land]. Studi tentang penerapan gaga rancah di lahan pengairan teknis secara nasional/Purwanto, M.Y.J. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Budi, D.S.; Wardana, I P. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 122

ORYZA SATIVA; RAINFED FARMING;
CULTIVATION; PLANTING DATE;
IRRIGATION; YIELDS; FLOODED LAND.

0364 QOSIM, W.A. [Increasing quality and quantity of tomato through hydroponic technique in Warnasari, Pangalengan, Bandung (Indonesia)]. Peningkatan kualitas dan kuantitas tomat melalui teknik hidroponik di Desa Warnasari, Kecamatan Pangalengan, Kabupaten Bandung/Qosim, W.A.; Ruminta; Sauman H., J. Universitas Padjadjaran, Bandung (Indonesia). Lembaga Pengabdian Kepada Masyarakat. Bandung (Indonesia): UNPAD, 2001 14 p. 2 tables; 3 ref. Summary (In) Appendices

LYCOPERSICON ESCULENTUM;
CULTIVATION; HYDROPONICS;
EXTENSION ACTIVITIES; INNOVATION;
TECHNOLOGY TRANSFER; JAVA.

0365 QOSIM, W.A. [Tomato quality and quantity increasing by using hydroponics technology at Warnasari Village, District of Pangalengan, Bandung Regency (Indonesia)]. Peningkatan kualitas dan kuantitas tomat melalui teknik hidroponik di Desa Warnasari Kecamatan Pangalengan Kabupaten Bandung /Qosim, W.A.; Ruminta; Sauman H., J. (Universitas Padjadjaran Bandung (Indonesia). Fakultas Pertanian). Jurnal Pengabdian Kepada Masyarakat (Indonesia) ISSN 1410-5675 (2002) v. 11(4) p. 24-27 3 ref. Summary (In)

LYCOPERSICON ESCULENTUM;
HYDROPONICS; QUALITY; INNO-
VATION ADOPTION.

0366 ROSYID, M.J. Observation on rubber cultivation in tidal swampy area of South Sumatra (Indonesia)/Rosyid, M.J.; Suryaningtyas, H. (Balai Penelitian Karet, Medan (Indonesia). Instalasi Penelitian Sembawa). Proceedings Indonesian rubber conference and IRRDB symposium 2000. Volume II/Azwar, R.; Karyudi; Wibawa, G.; Suryaningtyas, H.; Arizal, A.; Honggokusumo, S.; Suparto, D.; Supriadi, M.; Anwar, C.; Suwana, A.D. (eds.) Balai Penelitian Karet Indonesia, Bogor (Indonesia). Medan (Indonesia): Balai Penelitian Karet, 2001 p. 577-584 5 tables; 13 ref. Summary (En)

HEVEA BRASILIENSIS; CULTIVATION;
SMALL FARMS; GROWTH; YIELDS;
SUMATRA.

0367 RUSKANDI. [Growth and yield of bananas intercropped with coconut]. Pertumbuhan dan hasil pisang nangka sebagai tanaman sela di antara kelapa/Ruskandi (Loka Penelitian Tanaman Sela Perkebunan, Pakuwon-Sukabumi (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 73-76 2 tables; 10 ref.

COCOS NUCIFERA; MUSA (BANANAS);
GROWTH; YIELDS; MIXED CROPPING.

0368 SANDRA, E. [Utilization of Silva aeroponic technology for root growth of drug plants]. Teknologi silva aeroponik untuk menumbuhkan akar/Sandra, E.; Hamid, H.; Yahya, A.F. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-

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DRUG PLANTS; AEROPONICS; GROWTH; ROOTS; FLUORESCENCE; QUALITY.

0369 SOEDJANAATMADJA, H.R.U. [Development of oyster mushroom and shitake cultivation]. Pengembangan wirausaha budidaya jamur tiram dan shitake/ Soedjanaatmadja, H.R.U.; Natawigena, W.D.; Rachman, S.D.; Hindersah, R. (Universitas Padjadjaran, Bandung (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). Jurnal Pengabdian Kepada Masyarakat (Indonesia) ISSN 1410-5675 (2000) v. 9(1) p. 66-71 10 ref. Summary (In)

PLEUROTUS OSTREATUS; CULTIVATION; GROWING MEDIA; ENTERPRISES; EXTENSION ACTIVITIES; AGROINDUSTRIAL SECTOR.

F02 PLANT PROPAGATION / PERBANYAKAN TANAMAN

0370 EFFENDI, S. [Propagation technique of cassava]. Teknik perbanyak bibit ubikayu secara mudah dan murah/Effendi, S. (Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 66-68 1 ill., 3 tables; 4 ref.

MANIHOT ESCULENTA; SEEDLINGS; PLANT PROPAGATION; DIAMETER; YIELDS; GROWTH.

0371 GUNAWAN, L.W. [Seedlings of Manau rattan cultivar through somatic embryo induction by *in vitro* and development of bioreactor system for mass propagation]. Pembibitan rotan kultivar Manau melalui induksi embrio somatik secara *in vitro* dan pengembangan sistem bioreaktor untuk perbanyak massal/Gunawan, L.W.; Krisantini; Suketi, K.; Dinarti, D.; Wiendi, N.A.; Yahya, S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology:

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CANES AND RATTANS; PLANT NURSERIES; IN VITRO CULTURE; VITROPLANTS; BIOREACTORS; GROWTH; PLANT PROPAGATION.

0372 PRASETYORINI. [Preservation of *Rauwolfia serpentina* through *in vitro* culture]. Preservasi *Rauwolfia serpentina in vitro* Benth. ex Kurz (pulaipandak) melalui teknik kultur *in vitro*/Prasetyorini; Guhardja, E.; Wattimena, G.A.; Mariska, I.; Suhartono, M.T.; Suharsono. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 49-50

RAUVOLFIA; DRUG PLANTS; TISSUE CULTURE; IN VITRO CULTURE.

0373 SUMARSONO, L. [Topworking technique using three entres stadia on *Citrus nobilis* seedlings]. Teknik sambung pucuk menggunakan tiga stadia entres pada bibit tanaman jeruk keprok (*Citrus nobilis*)/ Sumarsono, L.; Sjaefuddin, A.; Abdurahman (Instalasi Penelitian dan Pengkajian Teknologi Pertanian Cipaku, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 51-53 1 table; 4 ref.

CITRUS; GRAFTING; TOPWORKING; SEEDLINGS; PRUNING.

F03 SEED PRODUCTION / PRODUKSI DAN PERLAKUAN TERHADAP BIJI DAN BENIH

0374 DIREKTORAT PROTEKSI TANAMAN, JAKARTA. [Effort on obtaining vanilla seed healthy and resistance to *Fusarium oxysporum* fsp. *vanillae*]. Baku operasional upaya mendapatkan bibit sehat dan tahan terhadap penyakit busuk batang panili *Fusarium oxysporum* fsp. *vanillae*/ Direktorat Proteksi Tanaman, Jakarta (Indonesia). Jakarta (Indonesia): Direktorat Proteksi Tanaman, 1999 15 p. 6 ill.

VANILLA PLANIFOLIA; DISEASE RESISTANCE; FUSARIUM OXYSPORUM; SEED TREATMENT; MANUAL OPERATION; INFESTATION.

0375 HEHANUSSA, M.L. [Handling of micro seed using ALAS-M system on some potato cultivars]. Penanganan bibit mikro dengan sistem ALAS-M pada beberapa kultivar kentang (*Solanum tuberosum* L.)/Hehanussa, M.L.; Wattimena, G.A.; Purwoko, B.S.; Syarief, A.M. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 38-39

SOLANUM TUBEROSUM; VARIETIES; SEED TREATMENT; GROWTH.

0376 SOFIARI, E. Management system for potato breeder seeds/Sofiari, E. Progress in potato and sweet potato research in Indonesia/Fuglie, K.O. Jakarta (Indonesia): Badan Litbang Pertanian, 2003 p. 83-88 2 ill., 13 ref. Summary (En)

POTATOES; BREEDERS SEED; SEED PRODUCTION; MANAGEMENT; ECONOMIC DISTRIBUTION; QUALITY CONTROLS.

0377 SUSANTO, S. [Study of supplying and improving growth performance of Cikoneng and Nambangan citrus cultivars free from systemic diseases]. Studi tentang penyediaan dan perbaikan penampilan pertumbuhan bibit jeruk besar kultivar Cikoneng dan Nambangan bebas penyakit sistemik/Susanto, S.; Supriyanto, A.; Junaedi, A. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 123-124

CITRUS GRANDIS; PLANTING STOCK; GRAFTING; IN VITRO; ELISA; DISEASE CONTROL; SYSTEMIC DISEASES; IDENTIFICATION; PLANT VIRUSES; GROWTH.

F04 FERTILIZING / PEMUPUKAN

0378 JUMIONO, A. [Prospect of urban wastes for vermicompost industry: case study in Bogor (Indonesia)]. Prospek pendirian industri vermikompos berbahan baku sampah kota: studi kasus di Kota Bogor/Jumiono, A.; Mudikdjo, K.; Simamora, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 108-109

COMPOSTS; INDUSTRIAL DEVELOPMENT; URBAN WASTES; JAVA.

0379 SISWORO. [Biodecomposition of some lignocellulose materials and its product effectivity on the growth and yield of shallot (*Allium ascalonicum*)]. Biodekomposisi beberapa bahan lignoselulosa dan efektivitas produknya dalam meningkatkan pertumbuhan dan hasil tanaman bawang merah (*Allium ascalonicum* L.)/Sisworo; Harjadi, S.S.; Goenadi, D.H.; Sujiprihati, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 33-34

ALLIUM ASCALONICUM; BIO-FERTILIZERS; LIGNOCELLULOSE; COMPOSTS; GROWTH; YIELDS INCREASE; YIELDS.

0380 YURMIATY, H. [Cow's faeces composting using probiotic and its application to vegetable plants]. Pengomposan feses sapi dengan probiotik dan aplikasinya pada tanaman sayuran/Yurmiaty, H.; Suradi, K.; Sinaga, S. Universitas Padjadjaran, Bandung (Indonesia). Lembaga Pengabdian Masyarakat. Bandung (Indonesia): UNPAD, 2001 24 p. 11 ill., 7 ref. Summaries (En,In). Appendices

VEGETABLE CROPS; COMPOSTS; FAECES; PROBIOTICS; GROWING MEDIA; GROWTH; JAVA.

F06 IRRIGATION / IRIGASI

0381 FARHAN, A. [Performance of irrigated water distribution, effect of location and N fertilizer dosage on rice yields]. Kinerja pendistribusian air irigasi serta pengaruh lokasi dan takaran pupuk N terhadap hasil padi/Farhan, A.; Boer, R.; Pawitan, H.; Fagi, A.M.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 29-32

ORYZA SATIVA; IRRIGATION; WATER SUPPLY; PRODUCTION LOCATION; NITROGEN FERTILIZERS; FERTILIZER APPLICATION; APPLICATION RATES; YIELDS.

0382 SETIAWAN, B.I. [Kendi irrigation system]. Sistem irigasi kendi/Setiawan, B.I. (Institut Pertanian Bogor (Indonesia). Fakultas Teknik Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 36-37

VEGETABLE CROPS; FRUIT CROPS; IRRIGATION SYSTEMS; DRY FARMING; WATER SUPPLY.

F08 CROPPING PATTERNS AND SYSTEMS / POLA TANAM DAN SISTEM PENANAMAN

0383 BURGERS, P. Indigenous fallow management and biodiversity: in line with nature?/ Burgers, P. (International Center for Research in Agroforestry, South East Asia, Bogor (Indonesia)). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 103-110 1 ill., 10 ref.

TROPICAL FORESTS; BIODIVERSITY; AGROFORESTRY; SOIL FAUNA; FALLOW SYSTEMS; NATURE CONSERVATION; SUSTAINABILITY.

0384 HAMDANI, J.S. [Organic vegetable cultivation on integrated agricultural system]. Budidaya sayuran organik pada sistem pertanian terpadu/Hamdani, J.S.; Sumardi; Darajat, W. Universitas Padjajaran, Bandung (Indonesia). Lembaga Pengabdian Masyarakat. Bandung (Indonesia): UNPAD, 2001 18 p. 1 table; 9 ref. Summary (In). Appendices

VEGETABLE CROPS; DUCKS; OLIGOCHAETA; MIXED FARMING; FARMYARD MANURE; ORGANIC FERTILIZERS; BOTANICAL INSECTICIDES; EXTENSION ACTIVITIES.

0385 INDROWURYANTO. [Climatic change and cropping pattern alternative for food crops]. Perubahan iklim dan alternatif pola pertanian tanaman pangan/Indrowuryanto (Universitas Negeri Surakarta (Indonesia). Fakultas Pertanian). [Proceedings of the National Seminar on Developing Food Crops Production System with Environment Perspective]. Membangun Sistem Produksi Tanaman Pangan Berwawasan Lingkungan: Prosiding Seminar Nasional/Soejitno, J.; Sasa, I.J.; Hermanto (eds.) Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor (Indonesia). Bogor (Indonesia): PUSLIT-BANGTAN, 2002 p. 513-519 2 ill., 3 tables; 10 ref.

FOOD CROPS; CROP MANAGEMENT; ALTERNATIVE AGRICULTURE; CLIMATIC CHANGE; TEMPERATURE.

0386 JONIARTA, E. [Water table analysis to determine time and cropping pattern in irrigated land Batung Lampasi, West Sumatra (Indonesia)]. Analisis neraca air untuk menentukan waktu dan pola tanam daerah irigasi Batung Lampasi, Sumatera Barat /Joniarta, E.; Dalhar, M.A.; Sapei, A.; Pawitan, H.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 100-101

IRRIGATED RICE; CROP MANAGEMENT; CROPPING SYSTEMS; IRRIGATED LAND; GROUND WATER TABLE; WATER REQUIREMENT; SUMATRA.

F30 PLANT GENETICS AND BREEDING / GENETIKA DAN PEMULIAAN TANAMAN

0387 ADIE, M.M. Inheritance of Trichomes in soybean leaflet and its resistance to armyworm insect. Pewarisan trikoma, penentu sifat ketahanan kedelai terhadap ulat grayak/Adie, M.M.; Tridjaka (Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang (Indonesia)); Igita, K.. Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0216-9959 (2000) v. 19(2) p. 43-50 3 tables; 10 ref. Summaries (En,In)

GLYCINE MAX; PESTS OF PLANTS;
PEST RESISTANCE; GENETIC IN-
HERITANCE; TRICHOMES.

0388 BANGUN, G. [Effect of soaking time on growth recovery of rice (*Oryza sativa* L.) plants]. Pengaruh waktu rendam terhadap daya pulih pertumbuhan tanaman padi (*Oryza sativa* L.)/Bangun, G. (Universitas Nasional, Jakarta (Indonesia). Fakultas Biologi). Ilmu dan Budaya (Indonesia) ISSN 0126-2602 (2002) v. 22(22) p. 66-76 3 tables; 12 ref. Summary (In)

ORYZA SATIVA; GROWTH; SOAKING;
TIME; VARIETY TRIALS; VIABILITY;
PLANT PHYSIOLOGY.

0389 KOESNO, T.S. [Yield potential of some soybean genotypes tolerance to drought on climate type E land East Timor]. Uji potensi hasil beberapa genotype kedelai toleran kekeringan pada lahan tipe iklim E di Timor Timur/Koesno, T.S.; Sopandie, D.; Purwoko, B.S.; Amien, L.I.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 36-37

GLYCINE MAX; GENOTYPE; DROUGHT
RESISTANCE; CLIMATIC SOIL TYPES;
YIELDS; TIMOR.

0390 KUSUMO, Y.W.E. [Obtaining groundnut genotype resistance to leaf spot disease through interspecific crossbreeding and germplasm filtering]. Upaya memperoleh genotype kacang tanah tahan penyakit bercak daun melalui persilangan interspesifik dan penapisan plasma nutfah/Kusumo, Y.W.E.; Sastrosumarjo, S.; Aisyah, S.I. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Hadi, S.; Mattjik, A.A.; Rais, S.A.; Yuliani, T.S.; Dewi, I.S.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 93

ARACHIS HYPOGAEA;
HYBRIDIZATION; INTERSPECIFIC
HYBRIDIZATION; HIGH YIELDING
VARIETIES; DISEASE RESISTANCE;
SPOTS.

0391 LAMADJI, S. [Reliable agricultural acceleration through non conventional breeding]. Akselerasi pertanian tangguh melalui pemuliaan non-konvensional/Lamadji, S. (Pusat Penelitian Perkebunan Gula Indonesia, Pasuruan (Indonesia)); Hakim, L.; Rustidja. [Acceleration of Breeding for Reliable Agriculture in Globalization Era: Proceedings of the 5th Symposium of Indonesian Association of Breeding Science]. Akselerasi Pemuliaan Mewujudkan Pertanian Tangguh di Era Globalisasi: Prosiding Simposium 5 Perhimpunan Ilmu Pemuliaan Indonesia (Peripi)/Ashari, S.; Soegianto, A.; Nugroho, A.; Poespodarsono, S.; Lamadji, S.; Kasno, A.; Soetopo, L.; Basuki, N. (eds.). Malang (Indonesia): UNIBRAW, 1999 p. 28-33 ill., tables; ref. Summary (In)

AGRICULTURAL DEVELOPMENT;
BREEDING METHODS.

0392 LUKMAN, W. [Castration technique on artificial cross breeding of pepper conventionally]. Teknik kastrasi pada persilangan buatan tanaman lada secara konvensional/Lukman, W. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 62-65 1 table; 4 ref.

PIPER NIGRUM; CROSSBREEDING;
CASTRATION; PHYTOPHTHORA
CAPSICI; HIGH YIELDING VARIETIES;
ARTIFICIAL POLLINATION.

0393 MEGIA, R. [Identification of germplasm and use of *in vitro* technique to support banana breeding in Indonesia]. Identifikasi plasma nutfah dan pemakaian teknik *in vitro* untuk menunjang pemuliaan pisang Indonesia/Megia, R.; Hadisunarso; Sulistyaningsih, Y.C.; Chikmawati, T.; Djuita, N.R. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 60

MUSA PARADISIACA; PLANT
BREEDING; GERMPLASM; IDENTIFI-

CATION; IN VITRO CULTURE; PLANT ANATOMY; INDONESIA.

0394 NURYANI, Y. Response of some patchouli clones (*Pogostemon cablin* Benth.) to burrowing nematode (*Radopholus similis* Cobb.). Tanggap beberapa klon nilam (*Pogostemon cablin* Benth.) terhadap nematoda perlubang akar (*Radopholus similis* Cobb.)/Nuryani, Y.; Syukur, C.; Harni, R.; Yelnititis; Repianyo; Mustika, I. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Jurnal Penelitian Tanaman Industri (Indonesia) ISSN 0853-8212 (1999) v. 5(3) p. 103-108 1 ill., 3 tables; 19 ref. Summaries (En,In)

POGOSTEMON CABLIN; CLONES; DISEASE RESISTANCE; RADOPHOLUS SIMILIS; ISOLATION TECHNIQUES; DISEASE TRANSMISSION; PLANT RESPONSE.

0395 SATYAGRAHA, B. Inheritance of resistance to Powdery mildew in mungbean. Pewarisan sifat ketahanan tanaman kacang hijau terhadap penyakit embun tepung/Satyagraha, B.; Taryana, Y.; Dinar, H.U. Universitas Winaya Mukti, Sumedang (Indonesia). Fakultas Pertanian. Tanjungsari, Sumedang (Indonesia): UNWIM, 1999 54 p. 2 ill., 10 tables; 45 ref. Summaries (En,In). Appendices

VIGNA RADIATA RADIATA; HERITABILITY; ERYSHIPHE POLYGONI; GENETIC RESISTANCE; GENETIC CORRELATION; DISEASE RESISTANCE.

0396 SUHARTINI, T. Genetic similarity of rice lines from F1 anther culture in H1 generation. Kesamaan genetik galur-galur padi hasil kultur anter F1 pada generasi H1/Suhartini, T. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia); Somantri, I.H. Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0216-9959 (2000) v. 19(2) p. 13-20 15 tables; 10 ref. Summaries (En, In)

ORYZA SATIVA; ANTHER CULTURE; CROSSBREEDING; GENETICS; GROWTH; YIELDS.

0397 SUKETI, K. [Characterization and *in vitro* conservation of taro germplasm and adaptation selection to support intercropping

system]. Karakterisasi dan konservasi *in vitro* plasma nutfah talas serta seleksi adaptasi untuk mendukung pola tumpang sari/Suketi, K.; Purwoko, B.S.; Sopandie, D.; Somantri, I.H. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 69-70

COLOCASIA ESCULENTA; SELECTION; GERMPLASM CONSERVATION; IN VITRO; ADAPTATION; GROWTH; INTERCROPPING.

0398 SUPENA, E.D.J. [Chilli pure lines breeding using *in vitro* and mutagenesis techniques]. Pembentukan galur murni cabai menggunakan teknik *in vitro* dan mutagenesis/Supena, E.D.J.; Suharsono (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 75

CAPSICUM ANNUM; PLANT BREEDING; PURE LINES; IN VITRO; MUTATION; HAPLOIDY.

0399 SUWANTO, A. [Molecular ecology of anoxygen photosynthetic bacteria and delta-aminolevulinat acid production from *Rhodobacter sphaeroides*]. Ekologi molekuler bakteri fotosintetik anoksigen dan produksi asam delta-aminolevulinat dari *Rhodobacter sphaeroides*/Suwanto, A.; Tjondronegoro, P.D. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Tjahjoleksono, A.; Meryandini, A.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut

Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 51

BACTERIA; GENETIC ENGINEERING; MOLECULAR GENETICS; RNA; ECOLOGY; ACIDS.

0400 TJOKROKUSUMO, D. [Gene transfer technology for plant]. Teknologi transfer gen pada tanaman/Tjokrokusumo, D.. Jurnal Sains dan Teknologi Indonesia (Indonesia) ISSN 1410-9409 (2000) v. 2(2) p. 48-54 44 ref. Summary (En)

PLANTS; GENE TRANSFER; TECHNOLOGY; DNA; ELECTROPORATION; ELECTROPHORESIS; BIOLISTICS.

0401 WIENDI, N M.A. [Expression of chitinase gene from *Aeromonas caviae* WS7b on Desiree cultivar of potato]. Ekspresi gen kitinase asal bakteri *Aeromonas caviae* WS7b pada tanaman kentang kultivar Desiree/Wiendi, N M.A.; Wattimena, G.A.; Aswidinnoor, H. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Suwanto, A.; Sinaga, M.S.; Suharsono. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 52-53

SOLANUM TUBEROSUM; AEROMONAS; VARIETIES; GENES; FUSARIUM OXYSPORUM; MYCELIUM; DISEASE RESISTANCE; CHITINASE.

F50 PLANT STRUCTURE / MORFOLOGI DAN ANATOMI TANAMAN

0402 ELFARISNA. [Soybean adaptation on shading: study of morphology and anatomy]. Adaptasi kedelai terhadap naungan: studi morfologi anatomi/Elfarisna; Sopandie, D.; Chozin, M.A.; Mugnisjah, W.Q.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 41-42

GLYCINE MAX; SHADING; PLANT ANATOMY; ADAPTATION.

F60 PLANT PHYSIOLOGY AND BIOCHEMISTRY / FISILOGI DAN BOKIMIA TANAMAN

0403 ARINTAWATI, M. [Identification and characterize of *Syzygium polyanthum* flavour component]. Identifikasi dan karakterisasi komponen aroma daun salam (*Syzygium polyanthum* (Wight) Walp.) / Arintawati, M.; Budijanto, S.; Yasni, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 106-107

SYZYGIIUM; LEAVES; IDENTIFICATION; AGRONOMIC CHARACTERS; FLAVOUR.

0404 DARUSMAN, L.K. [Study of flavonoid compound on bangle (*Zingiber cassumunar*) fatty dropping through lipases activity]. Kajian senyawa golongan flavonoid asal tanaman bangle sebagai peluruh lemak melalui aktivitas lipase/Darusman, L.K.; Rohaeti, E.; Sulistyani (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 66

ZINGIBER; EXTRACTION; FLAVONOIDS; FATS; TRIACYLGLYCEROL LIPASE; TRADITIONAL MEDICINES.

0405 LIFERDI. [Study of phenophysiology of rambutan (*Nephelium lappaceum*) varieties]. Studi fenofisiologi empat varietas rambutan (*Nephelium lappaceum* L.)/Liferdi; Poerwanto, R.; Darusman, L.K.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 43-44

NEPHELIUM LAPPACEUM; VARIETIES; PLANT PHYSIOLOGY; GROWTH.

0406 MUCHTADI, D. [Study on food fibres and antioxidant on some vegetables to prevent degenerative disease]. Kajian terhadap serat makanan dan antioksidan dalam berbagai jenis sayuran untuk pencegahan penyakit degeneratif/Muchtadi, D.; Amira, N.; Subekti; Astawan, M.; Wijaya, H. (Institut Pertanian

Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 67-68

VEGETABLES; DIETARY FIBRES; ANTIOXIDANTS; CHOLESTEROL; RATS; LABORATORY ANIMALS.

0407 SUDJANA, T.S. [Extraction and isolation of compound from *Phaseolus lunatus* as antiangiogenesis compound and alternative biopharmacy]. Ekstraksi dan isolasi senyawa asal tanaman roay sebagai senyawa anti-angiogenesis dan biofarmaka alternatif/Sudjana, T.S.; Darusman, L.K.; Suparto, I.H. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 56

PHASEOLUS LUNATUS; EXTRACTS; PROTEIN; LECTINS; POLY-SACCHARIDES; EGGS; CHICKENS; TRADITIONAL MEDICINES.

0408 SUGITA, P. [Potential of *sambiloto* (*Andrographis paniculata*) on growth retardation of *Aspergillus flavus* and aflatoxin production]. Potensi tanaman *sambiloto* dalam penghambatan pertumbuhan *Aspergillus flavus* dan produksi aflatoxin/Sugita, P.; Nur, M.M.; Farid, M. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Hastiono, S.; Widiastuti, R.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 186

DRUG PLANTS; PLANT EXTRACTS; APPLICATION RATES; TOXICITY; IDENTIFICATION; GROWTH; ASPERGILLUS FLAVUS; AFLATOXINS.

0409 SUPARTO, I.H. [Developing *Arcangelisia flava* for traditional medicine in Indonesia]. Pengembangan akar kuning sebagai obat asli Indonesia/Suparto, I.H.; Achmadi, S.S.; Zuhud, E.A.M.; Batubara, I. (Pusat Studi Biofarmaka, Bogor (Indonesia)); Iskandriati, D. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 179-180

DRUG PLANTS; PLANT EXTRACTS; TRADITIONAL MEDICINES; IN VIVO EXPERIMENTATION; RATS; LABORATORY ANIMALS; INDONESIA.

F62 PLANT PHYSIOLOGY - GROWTH AND DEVELOPMENT / FISIOLOGI TANAMAN - PERTUMBUHAN DAN PERKEMBANGAN

0410 GHULAMAHDHI, M. [Physiology mechanism of soybean on saturate and dry water condition using ethylene biosynthesis]. Mekanisme fisiologi tanaman kedelai pada kondisi jenuh air dan kering serta kaitannya dengan biosintesis etilena/Ghulamahdi, M.; Purwoko, B.S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 73-74

GLYCINE MAX; PLANT PHYSIOLOGY; CULTIVATION; ANAEROBIOISIS; WATER BALANCE; DRY FARMING; ETHYLENE; BIOSYNTHESIS; YIELDS.

0411 POERWANTO, R. [Study of rambutan phenophysiology as an effort of biannual bearing solution and fruit

productivity at off season]. Studi fenofisiologi rambutan sebagai upaya mengatasi biannual bearing dan memproduksi buah di luar musim/Poerwanto, R.; Irdiastuti, R.; Hidayat, R. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 121

NEPHELIUM LAPPACEUM; PLANT PHYSIOLOGY; FLOWERING; FRUITING; GIRDLING; POTASSIUM NITRATE; OFF SEASON PRODUCTS.

F70 PLANT TAXONOMY AND GEOGRAPHY / TAKSONOMI TANAMAN DAN SEBARAN GEOGRAFI

0412 KASRINA. [Calamus section *Rhombocalamus furtado* in Malesia]. Calamus seksi *Rhombocalamus furtado* di Malesia/Kasrina; Rifai, M.A.; Moge, J.P.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 45-46

CALAMUS; BIODIVERSITY; GEOGRAPHICAL DISTRIBUTION; PLANT COLLECTIONS.

0413 UMAR, H.H. [Floral diversity in coastal area of South Banawa, Donggala Regency, Central Sulawesi (Indonesia)]. Keanekaragaman tumbuhan di kawasan pesisir Banawa Selatan, Kabupaten Donggala, Sulawesi Tengah/Umar, H.H. (Universitas Tadulako, Palu (Indonesia). Fakultas Pertanian). Jurnal Agroland (Indonesia) ISSN 0854-614X (2002) v. 9(2) p. 126-133. 5 tables, 11 ref. Summaries (En, In)

FLORA; BIODIVERSITY; VEGETATION; COASTS; SULAWESI

0414 WIRIADINATA, H. Plant biodiversity richness of Gunung Halimun National Park (West Java, Indonesia). Kekayaan jenis tumbuhan Taman Nasional Gunung Halimun /Wiriadinata, H. (Herbarium Bogoriensis, Bogor (Indonesia)). Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-

1754 (2002) v. 6(1) p. 137-143 7 ref. Summary (En)

ORNAMENTAL WOODY PLANT; BIODIVERSITY; NATIONAL PARKS; JAVA.

H10 PESTS OF PLANTS / HAMA TANAMAN

0415 ASIKIN, S. [Biology of leaf folder (*Cnaphalocrosis medinalis*) and its control alternatives]. Biologi hama putih palsu dan alternatif pengendaliannya/Asikin, S.; Thamrin, M.; Budiman, A.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 53-63 3 tables; 16 ref. Summary (In)

ORYZA SATIVA; CNAPHALOCROSIS MEDINALIS; BIOLOGY; PEST CONTROL; PREDATORS; ALTERNATIVE METHODS.

0416 ASIKIN, S. [Rice stem borers bionomy and its control alternatives]. Bionomi penggerek batang padi dan alternatif pengendaliannya/Asikin, S.; Thamrin, M. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 21-39 13 tables; bibl. p. 35-39. Summary (In)

ORYZA SATIVA; VARIETIES; STEM EATING INSECTS; SCIRPOPHAGA INCERTULAS; ELEOCHARIS; BEAUVERIA BASSIANA; ECOLOGY; PEST CONTROL; PREDATORS.

0417 BUCHORI, D. [Interaction dynamic between Trichogrammatidae parasitoid and its hosts: factors affected on Trichogrammatidae as biological control agent]. Dinamika interaksi antara parasitoid Trichogrammatidae dan inangnya: faktor yang berpengaruh terhadap kualitas Trichogrammatidae sebagai agens pengendalian hayati/Buchori, D.; Hidayat, P.; Kartosuwondo, U.; Nurmansyah, A. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of

research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 97-98

TRICHOGRAMMATIDAE; PARASITOIDS; HOST PATHOGEN RELATIONS; HOST PLANTS; BIOLOGICAL CONTROL AGENTS; IDENTIFICATION; QUALITY.

0418 DEPPARABA, F. Cacao moth and its control measures. Penggerek buah kakao (*Conopomorpha cramerella* Snellen) dan penanggulangannya/Depparaba, F. (Balai Pengkajian Teknologi Pertanian Sulawesi Tengah, Biromaru (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2002) v. 21(2) p. 69-74 1 ill., 26 ref. Summaries (En,In)

THEOBROMA CACAO;
CONOPOMORPHA CRAMERELLA; LIFE CYCLE; PEST CONTROL; CONTROL METHODS; NATURAL ENEMIES.

0419 HAMIJAYA, M.Z. [Brown plan-hopper (*Nilaparvata lugens* Stal.) in rice in tidal swamp area]. Hama wereng coklat (*Nilaparvata lugens* Stal.) pada padi di lahan rawa pasang surut/Hamijaya, M.Z.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 41-51 5 tables; 17 ref. Summary (In)

ORYZA SATIVA; VARIETIES; NILAPARVATA LUGENS; BIOLOGI; PEST CONTROL; PEST RESISTANCE; CONTROL METHODS; PREDATORS; TIDES; SWAMP SOILS; KALIMANTAN.

0420 HASTATININGSIH. [Study on potential of biological insecticide raw material on utilization of sap and tree bark of Dipterocarpaceae]. Studi potensi bahan baku insektisida biologi dalam rangka pemanfaatan getah dan kulit kayu dari famili Dipterocarpaceae/Hastatiningsih; Darusman, L.K.; Sugita, P.; Sudjana, T.S. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam);

Husaeni, E.A.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 92

HOPEA; EXTRACT WOOD; BOTANICAL INSECTICIDES; CRYPTOTERMES; BARK; SAP.

0421 MEILIN, A. Egg parasitoids of *Plutella xylostella* (L.)(Lepidoptera: Yponomeutidae). Parasitoid telur pada hama kubis *Plutella xylostella* (L.)(Lepidoptera: Yponomeutidae)/Meilin, A. (Universitas Batanghari, Jambi (Indonesia). Fakultas Pertanian); Hidayat, P.; Buchori, D.; Kartosuwondo, U.. Buletin Hama dan Penyakit Tumbuhan (Indonesia) ISSN 0854-3836 (2000) v. 12(1) p. 21-26 3 ill., 1 table; 21 ref. Summaries (En,In)

BRASSICA OLERACEA;
TRICHOGRAMMATOIDEA; PLUTELLA XYLOSTELLA; EGGS; PARASITOIDS; ANIMAL MORPHOLOGY; IDENTIFICATION.

0422 PRAYUDI, B. [Pest and disease control of rice based on integrated pest management concept in swamp land]. Pengendalian hama penyakit utama tanaman padi berdasar konsep PHT di lahan rawa/Prayudi, B.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 1-5 1 table; 7 ref. Summary (In)

ORYZA SATIVA; PEST CONTROL; DISEASE CONTROL; INTEGRATED CONTROL; SWAMP SOILS; TECHNOLOGY.

0423 ROJAK, A. [Monitoring and control of *Lophobaris piperis* on pepper plantation]. Pengamatan dan pengendalian populasi hama penggerek batang (*Lophobaris piperis*) pada tanaman lada/Rojak, A. (Kebun Percobaan Tanaman Rempah dan Obat, Sukamulya,

Sukabumi (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 77-79 1 table; 5 ref.

PIPER NIGRUM; STEM EATING INSECTS; PEST CONTROL.

0424 THAMRIN, M. [Rice field rat (*Rattus argentiventer*) and its control technology in tidal lands]. Hama tikus dan teknologi pengendaliannya di lahan sawah pasang surut/Thamrin, M.; Asikin, S.; Prayudi, B.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 7-20 5 ill., 3 tables; 22 ref. Summary (In)

ORYZA SATIVA; RICE FIELDS; RATS; RODENT CONTROL; CONTROL METHODS; TIDES; INTERTIDAL ENVIRONMENT; TECHNOLOGY; KALIMANTAN.

0425 TRIWIDODO, H. [Technology development and socialization of integrated pest control on shallots]. Pengembangan teknologi dan pemasyarakatan pengendalian hama terpadu pada bawang merah/Triwidodo, H.; Yuliani, T.S.; Prijono, D.; Sartiami, D.; Wiyono, S.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 107-108

ALLIUM ASCALONICUM; SPODOPTERA EXIGUA; ALTERNARIA PORRI; NATURAL ENEMIES; TRICHOGRAMMA; DEMOGRAPHY; BIOPESTICIDES; INTEGRATED CONTROL; TECHNOLOGY.

0426 WILLIS, M. [Rice bug (*Leptocorisa oratorius*): bioecology and its control in tidal swamp area]. Walang sangit: bioekologi dan pengendaliannya di lahan pasang surut/Willis, M.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.;

Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 65-72 9 ill., 13 ref. Summary (In)

ORYZA SATIVA; LEPTOCORISA ORATORIUS; BIOLOGY; PEST CONTROL; TIDES; INTERTIDAL ENVIRONMENT.

0427 WINASA, I W. [Study of Arthropods for soybean ecosystems predator: an approach to landscape ecology]. Kajian Arthropoda predator penghuni tanah dan tajuk di ekosistem kedelai: suatu pendekatan ekologi lansekap/Winasa, I W.; Rauf, A.; Nurmansyah, A. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 131-132

GLYCINE MAX; ECOSYSTEMS; ECOLOGY; PREDATORS; ARTHROPODA; LYCOSIDAE; CARABIDAE; STAPHYLINIDAE; RICE STRAW; MULCHING; HERBICIDE; INSECTICIDES.

H20 PLANT DISEASES / PENYAKIT TANAMAN

0428 AIDAWATI, N. [Tobacco virus transmission by *Bemisia tabaci* Genn. (Homoptera: Aleyrodidae)]. Penularan virus krupuk tembakau dengan *Bemisia tabaci* Genn. (Homoptera: Aleyrodidae)/Aidawati, N.; Hidayat, S.H.; Suseno, R.; Sosromarsono, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 67-68

NICOTIANA TABACUM; TOBACCO MOSAIC TOBAMOVIRUS; BEMISIA TABACI; ALEYRODIDAE; DISEASE TRANSMISSION; VECTORS.

0429 GUNAWAN, O.S. Development of component technologies for control of bacterial wilt in potato/Gunawan, O.S.; Abidin, Z.; Basuki, R.S.; Dimiyati, A.; Asgar,

A.; Fliert, E.V.D. Progress in potato and sweet potato research in Indonesia/Fuglie, K.O. Jakarta (Indonesia): Badan Litbang Pertanian, 2003 p. 93-108 14 tables; 23 ref. Summary (En)

SOLANUM TUBEROSUM; WILTS; PATHOGENICITY; INTEGRATED CONTROL; GROWTH; YIELDS.

0430 ISWATI, R. [Activities and purification of antimicrobial compound from *Lentinus cladopus* LC-4 mycelium]. Aktivitas dan purifikasi senyawa antimikrob dari miselium *Lentinus cladopus* LC-4/Iswati, R.; Sudirman, L.I.; Tjahjono, B.; Adijuwana, H.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 89-90

GLYCINE MAX; XANTHOMONAS CAMPESTRIS; PURIFICATION; ANTI-MICROBIALS; LENTINUS.

0431 MARTINI, R. [Cloning of genes involving on Xanthomonadin biosynthetic from *Xanthomonas campestris* pv. *glycines*]. Kloning gen yang terlibat dalam biosintesis Xanthomonadin dari *Xanthomonas campestris* pv. *glycines*/Martini, R.; Suwanto, A.; Tjahjono, B.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 57-58

GLYCINE MAX; XANTHOMONAS CAMPESTRIS; CLONING; GENES; BIOSYNTHESIS.

0432 MUIS, A. Sugarcane Mosaic Virus (SCMV) causal agent of mosaic disease on maize in Sulawesi (Indonesia). Sugarcane Mosaic Virus (SCMV) penyebab penyakit mosaik pada tanaman jagung di Sulawesi/Muis, A. (Balai Penelitian Tanaman Serealia, Maros (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2002) v. 21(2) p. 64-68 4 ill., 3 tables; 18 ref. Summaries (En,In)

ZEA MAYS; SUGARCANE MOSAIC POTYVIRUS; SYMPTOMS; INFECTION; DISEASE CONTROL; GROWTH; VARIETIES; HOSTS.

0433 MUKHLIS, H. [Rice blast disease control in tidal swamp lands]. Pengendalian penyakit blas pada padi di lahan rawa pasang

surut/Mukhlis, H.; Prayudi, B.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 73-86 8 tables; 27 ref. Summary (In)

ORYZA SATIVA; VARIETIES; PEST RESISTANCE; PYRICULARIA ORYZAE; BLIGHTS; DISEASE CONTROL; PLANTING DATE; FERTILIZER APPLICATION; TIDES; SWAMP SOILS; KALIMANTAN.

0434 PRAYUDI, B. [*Drechslera oryzae* (*Helminthosporium oryzae*) disease on rice in tidal land]. Penyakit bercak coklat di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Budiman, A.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 87-91 3 tables; 10 ref. Summary (In)

ORYZA SATIVA; COCHLIOBOLUS MIYABEANUS; PATHOGENS; DISEASE CONTROL; TIDES; INTERTIDAL ENVIRONMENT.

0435 PRAYUDI, B. [Rice tungro disease in tidal swamp lands]. Penyakit tungro di lahan rawa pasang surut/Prayudi, B.. [Main pests and diseases of rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITTRA, 2001 p. 99-104 16 ref. Summary (In)

ORYZA SATIVA; TUNGRO DISEASE; RICE TUNGRO VIRUS; DISEASE CONTROL; TIDAL; SWAMP SOILS; KALIMANTAN.

0436 PRAYUDI, B. [Sheath blight disease (*Rhizoctonia solani*) on rice in tidal swamp lands]. Penyakit hawar pelepah daun (*Rhizoctonia solani*) di lahan rawa pasang surut/Prayudi, B.. [Main pests and diseases of

rice in tidal land]. Hama dan penyakit utama padi di lahan pasang surut/Prayudi, B.; Mukhlis, H.; Thamrin, M. (eds.) Balai Penelitian Tanaman Pangan Lahan Rawa, Banjarbaru (Indonesia). Banjarbaru (Indonesia): BALITRA, 2001 p. 93-98 3 tables; 10 ref. Summary (In)

ORYZA SATIVA; RHIZOCTONIA SOLANI; DISEASE CONTROL; SWAMP SOILS; TIDES; KALIMANTAN.

0437 RUSMANA, A.A. [Cloning of genes involving on pathogenicity of *Xanthomonas axonopodis* pv. *glycines*]. Kloning gen yang terlibat dalam mekanisme patogenisitas *Xanthomonas axonopodis* pv. *glycines*/Rusmana, A.A.; Tjahjono, B.; Suhartono, M.T.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 47-48

GLYCINE MAX; XANTHOMONAS; CLONING; GENES; PATHOGENICITY.

0438 SUDIR. Evaluation of antagonistics bacteria for biological control agent of rice sheath blight and stem rot. Evaluasi bakteri antagonis sebagai agensia pengendali hayati penyakit hawar pelepah dan busuk batang padi/Sudir; Suparyono (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia)). Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0216-9959 (2002) v. 19(2) p. 1-6 4 tables, 19 ref. Summaries (En,In)

ORYZA SATIVA; RHIZOCTONIA SOLANI; HELMINTHOSPORIUM; MICROBIAL PESTICIDES; BIOLOGICAL CONTROL AGENTS; IN VITRO.

0439 SURYADI, Y. Identification of bacterial wilt using PCR and DNA hybridization. Identifikasi strain bakteri layu menggunakan Polymerase Chain Reaction dan hibridisasi DNA/Suryadi, Y; Machmud, M.; Suhendar, M.A. (Balai Penelitian Bioteknologi Tanaman Pangan, Bogor (Indonesia)). Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0016-9959 (2000) v. 19(2) p. 59-64 4 tables; 26 ref. Summaries (En, In)

ARACHIS HYPOGAEA; PSEUDOMONAS SOLANACEARUM; IDENTIFICATION; PCR; DNA; HYBRIDIZATION.

0440 SUWANTO, A. [Molecular genetic of bacterial disease on soybean: construction of chromosome map and biocontrol of *Xanthomonas axonopodis* pv. *glycine*]. Genetika molekuler penyakit bisul bakteri pada kedelai: konstruksi peta kromosom dan biokontrol untuk *Xanthomonas axonopodis* pv. *glycine*/Suwanto, A. (Southeast Asian Regional Center for Tropical Biology, Biotrop, Bogor (Indonesia)); Tjahjono, B.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 57-58

GLYCINE MAX; XANTHOMONAS; PLANT DISEASES; MOLECULAR GENETICS; ISOLATION TECHNIQUES.

0441 TAUFIK, M. [Resistant test of citrus cultivars to Citrus tristeza virus]. Uji ketahanan berbagai kultivar jeruk terhadap Citrus tristeza virus/Taufik, M.; Hidayat, S.H.; Suseno, R.; Susanto, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 65-66

CITRUS; CITRUS TRISTEZA CLOSTEROVIRUS; DISEASE RESISTANCE; VECTORS.

H60 WEEDS AND WEED CONTROL / GULMA DAN PENGENDALIAN GULMA

0442 SUHARNA, N. Occurrence and distribution of *Trichoderma* species in Gunung Halimun National Park Forest (West Java, Indonesia). Keberadaan dan distribusi jenis-jenis *Trichoderma* di hutan kawasan Taman Nasional Gunung Halimun/Suharna, N. (Pusat Penelitian Biologi, Bogor (Indonesia)). Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-1754 (2002) v. 6(1) p. 159-165 3 tables; 16 ref. Summary (En)

TRICHODERMA; SPECIES; NATIONAL PARKS; JAVA.

J10 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF AGRICULTURAL PRODUCTS / PENANGANAN, TRANSPOR, PENYIMPANAN DAN PER-LINDUNGAN HASIL PERTANIAN

0443 WAGIONO, Y.K. [Utilization of high moisture content rice bran and postharvest credit to increase farm income]. Pemanfaatan lumbung gabah kadar air tinggi dan kredit pascapanen untuk meningkatkan pendapatan petani/Wagiono, Y.K.; Purnamadewi, Y.L.; Firdaus, M. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Tahir, R. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 155

RICE; BARNS; POSTHARVEST TECHNOLOGY; STORAGE; EQUIPMENT; PRICES; CREDIT; FARM INCOME.

J11 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF PLANT PRODUCTS / PENANGANAN, TRANSPOR, PENYIMPANAN DAN PER-LINDUNGAN HASIL TANAMAN

0444 ANON. [Postharvest handling: preventing yield losses and saving production of rice]. Penanganan pascapanen mencegah kehilangan hasil, menyelamatkan produksi /Anon. Agromedia (Indonesia) (2001) v. 1(3) p. 20-21 2 ill.

RICE; POSTHARVEST TECHNOLOGY; POSTHARVEST LOSSES; PRODUCTION.

0445 KOSWARA, S. [Composing and testing of estimation model of oxygen and carbondioxide concentration on modified atmosphere packaging of tropical fruits]. Penyusunan dan pengujian model pendugaan konsentrasi gas O₂ dan CO₂ dalam kemasan atmosfer termodifikasi buah-buahan tropik/Koswara, S.; Setyowati, K.; Sugiyono (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju

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TROPICAL FRUITS; POSTHARVEST TECHNOLOGY; GAS PACKAGING; OXYGEN; CARBON DIOXIDE.

0446 PURWOKO, B.S. [Application of polyamine plant growth regulator and its precursor to extend storage capacity and quality of fruits]. Penggunaan zat pengatur tumbuh poliamina dan prekursornya untuk memperpanjang daya simpan dan mempertahankan kualitas buah-buahan/Purwoko, B.S.; Susanto, S. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian); Nasution, M.Z.; Sustiprijatno. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 83

FRUITS; POSTHARVEST TECHNOLOGY; PLANT GROWTH SUBSTANCES; STORAGE; PRESERVATION; PLASTIC FILM; POLYETHYLENE; QUALITY.

0447 RIZAL, S. [Study of microbiological quality and resistance of polluted bacteria on black pepper to drying temperature]. Kajian mutu mikrobiologis dan ketahanan bakteri pencemaran lada hitam terhadap suhu pengeringan/Rizal, S.; Jenie, B.S.L.; Muchtadi, T.R.; Suliantari. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 102-103

PEPPER; RESISTANCE TO INJURIOUS FACTORS; DRYING; TEMPERATURE; QUALITY.

0448 SETIJORINI, L.E. [Application of preharvest polyamine to maintain tomato fruit quality]. Aplikasi poliamin prapanen untuk mempertahankan kualitas buah tomat (*Lycopersicon esculentum* Mill)/Setijorini, L.E.; Purwoko, B.S.; Sujiprihati, S.; Susanto, S. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 40

TOMATOES; POSTHARVEST TECHNOLOGY; POLYAMINES; QUALITY.

J12 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF FOREST PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL HUTAN

0449 SYAFII, W. [Exploration and identification of bioactive component on some tropical wood and its utilization possibility as natural preservative material]. Eksplorasi dan identifikasi komponen bioaktif beberapa kayu tropik dan kemungkinan pemanfaatannya sebagai bahan pengawet alami/Syafii, W.; Lisdowati; Falah, S. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan); Darma, I G.K.T.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 54-55

WOOD; DALBERGIA LATIFOLIA; HOPEA; WOOD FLOUR; EXTRACTS; PRESERVATIVES.

J13 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF ANIMAL PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PETERNAKAN

0450 FARREL, D.L. Improving the nutritional value of the hen's egg. Meningkatkan nilai nutrisi telur ayam/Farrel, D.J. (University of Queensland (Australia). School of Land and Food Sciences). Jurnal Ilmu dan Teknologi Peternakan (Indonesia) ISSN 1412-6990 (2000) v. 1(2) p. 60-73 11 tables; 46 ref. Summaries (En,In)

CHICKENS; EGGS; NUTRITIONAL VALUE; NUTRIENT IMPROVEMENT; POLYUNSATURATED FATTY ACIDS; LINSEED OIL; VITAMINS; SUPPLEMENTS; FLAVOUR.

J14 HANDLING, TRANSPORT, STORAGE AND PROTECTION OF FISHERIES AND AQUACULTURE PRODUCTS / PENANGANAN, TRANSPORT, PENYIMPANAN DAN PERLINDUNGAN HASIL PERIKANAN DAN BUDIDAYA PERAIRAN

0451 ARDIANSYAH. [Dried transportation system of prawns and life fish]. Transportasi udang dan ikan hidup sistem kering/Ardiansyah; Setiawan, B.I.; Herodian, S. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 40-41

PENAEUS MONODON; FISHES; AQUACULTURE EQUIPMENT; TRANSPORT; EXPORTS.

0452 DINARWAN. [Impact of fish postharvest technology on fishermen welfare level]. Dampak teknologi pascapanen produk hasil tangkapan ikan teri terhadap tingkat kesejahteraan nelayan/Dinarwan (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 144

SALTWATER FISHES; FISHING METHODS; POSTHARVEST TECHNOLOGY; FISHERMEN; LIVING STANDARDS.

0453 ERUNGAN, A.C. [Application of immotilization technique using marine algae anaesthetic material on non water transportation of life fish]. Penerapan teknik imotilisasi menggunakan bahan anestetik alga laut dalam transportasi komoditas hasil perikanan hidup tanpa media air/Erungan, A.C. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan).

[Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 77

PENAEUS MONODON; EPINEPHELUS; TRANSPORT OF ANIMALS; SEAWEEDS; EXTRACTS; APPLICATION RATES; ANAESTHETICS; SURVIVAL.

0454 SUDRAJAT, Y. [Bacteriofiltration system as water supply sources on life fish reservoir]. Sistem bakteriofiltrasi sebagai sarana pasokan air pada penampungan ikan hidup/Sudrajat, Y.; Gunawan, B. (Pusat Riset Pengolahan Produk dan Sosial Ekonomi Kelautan dan Perikanan, Jakarta (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 48-50 2 ill., 1 table; 4 ref.

FISH; ADAPTATION; WATER RESERVOIRS; BACTERIA; FILTRATION; TOXIC SUBSTANCES.

0455 SUKARSA, D.R. [Transportation handling method of life fish commodity using seaweed extracts]. Metode penanganan transportasi komoditas hasil perikanan hidup menggunakan ekstrak ganggang laut/Sukarsa, D.R.; Ibrahim, B.; Suptijah, P.; Salamah, E.; Dana, D. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 168

FISH; TRANSPORT OF ANIMALS; SEAWEEDS; EXTRACTS; ANAESTHETICS.

K01 FORESTRY - GENERAL ASPECTS / KEHUTANAN - ASPEK-ASPEK UMUM

0456 AZHAM, Z. Vegetation diversity of swamp forest type at Pimping River Bulungan

East Kalimantan (Indonesia). Keanekaragaman vegetasi pada hutan rawa di Sungai Pimping Bulungan Kalimantan Timur/Azham, Z. (Universitas Tarumanegara, Samarinda (Indonesia). Fakultas Pertanian); Suryadi, R. Buletin Penelitian Kehutanan (Indonesia) ISSN 1410-1025 (2002) v. 15(2) p. 36-54 9 tables; 10 ref. Summary (En)

FORESTS; SWAMPS; VEGETATION; BIODIVERSITY; KALIMANTAN.

0457 GINTINGS, A.N. National policies on biodiversity in forestry and estate aspects /Gintings, A.N.; Mukhtar, S.A.. Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 146-151 1 table; 3 ref.

FORESTRY; FORESTRY POLICIES; BIODIVERSITY; GERMPLASM; GERMPLASM CONSERVATION; GENETIC RESOURCES; PLANTATIONS; FARM MANAGEMENT.

K10 FORESTRY PRODUCTION / PRODUKSI HUTAN

0458 BAKAR, E.S. [Improvement of oil palm wood quality using "kompres" technique]. Perbaikan mutu kayu sawit dengan teknik kompres/Bakar, E.S. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 30-31

ELAEIS GUINEENSIS; WOOD; WOOD TECHNOLOGY; QUALITY; CHEMICO-PHYSICAL PROPERTIES.

0459 ERNAYATI. Vegetative propagation of Pulai (*Alstonia scholaris*) seedling by cutting system. Pemiakan anakan pulai

(*Alstonia scholaris*) secara vegetatif melalui stek pucuk/Ernayati; Juliaty, N.; Giono (Balai Penelitian dan Pengembangan Kehutanan Kalimantan, Samarinda (Indonesia)). Buletin Penelitian Kehutanan (Indonesia) ISSN 1410-1025 (2002) v. 15(2) p. 13-24 3 ill., 5 tables; 8 ref. Summary (En). Appendices

ALSTONIA; VEGETATIVE PROPAGATION; SEEDLINGS; CUTTINGS; PLANT GROWTH SUBSTANCES; ROOTS; KALIMANTAN.

0460 PRABAWA, S.B. Some physical and mechanical properties of glue laminated mahang wood (*Macaranga triloba*). Beberapa sifat fisik dan mekanik kayu lamina mahang (*Macaranga triloba*)Prabawa, S.B. (Balai Penelitian dan Pengembangan Kehutanan Kalimantan, Samarinda (Indonesia)). Buletin Penelitian Kehutanan (Indonesia) ISSN 1410-1025 (2002) v. 15(2) p. 55-70 4 ill., 3 tables; 15 ref. Summary (En)

EUPHORBIACEAE; WOODS; WOOD PROPERTIES; MECHANICAL PROPERTIES; ADHESIVES.

0461 PRAMONO, H. [Community dependence on damar in Krui (West Lampung, Indonesia) coastal areas]. Ketergantungan masyarakat terhadap repong damar di Pesisir Krui Lampung Barat/Pramono, H.; Suratmo, F.G.; Utomo, B.S.; Juanda, B.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 120-123

RESINS; RURAL COMMUNITIES; FARM INCOME; SUMATRA.

K70 FOREST INJURIES AND PROTECTION / KERUSAKAN DAN PERLINDUNGAN HUTAN

0462 CHOKKALINGAN, U. Fire use, peatland transformation and local livelihoods: a case of positive reinforcement?/Chokkalingan, U.; Tacconi, L.; Ruchyat, Y. (Center for International Forestry Research, Bogor (Indonesia)). Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta

(Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 191-196 14 ref. Summary (En)

PEATLANDS; FIRES; ENVIRONMENTAL IMPACT; RURAL COMMUNITIES; LAND MANAGEMENT.

0463 D'ARCY, L.J. Assessment of the effects of the 1997/78 forest fires and anthropogenic deforestation on peat swamp forest in Central Kalimantan, Indonesia /D'Arcy, L.J.; Page, S.E.. Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 179-185 39 ref. Summary (En)

PEATLANDS; SWAMPS; TROPICAL FORESTS; DEFORESTATION; FOREST FIRES; LOGGING; CANOPY; KALIMANTAN.

0464 MANGANDAR. [Socio-communities-forest fires linked in Riau (Indonesia)]. Keterkaitan sosial masyarakat di sekitar hutan dengan kebakaran hutan: studi kasus di Propinsi Daerah Tingkat I Riau/Mangandar; Soeratmo, F.G.; Utomo, B.S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 115-118

SUMATRA; FOREST FIRES; SOCIO-CULTURAL ENVIRONMENT.

0465 ROSWINTIARTI, O. Development of the Indonesian fire danger rating system: fuel characterization/Roswintiarti, O.; Brady, M.A. (Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia)); Dymond, C.; Groot, W.J. de. Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 186-190 2 ill., 13 ref. Summary (En)

INDONESIA; FOREST FIRES; FIRE DETECTION; FUELS; POLLUTION; SOIL ORGANIC MATTER; GROUNDWATER TABLE.

0466 SIEGERT, F. Peat fires in Central Kalimantan, Indonesia: fire impacts and carbon release/Siebert, F. (Remote Sensing Solutions GmbH, Munich (Germany)); Boehm, H.D.V.; Rieley, J.O.; Page, S.E.; Jauhiainen, J.; Vasander, H.; Jaya, A.. Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 142-154 4 ill., 2 tables; 21 ref. Summary (En)

KALIMANTAN; FOREST FIRES; PEATLANDS; CARBON DIOXIDE; ENVIRONMENTAL IMPACT; REMOTE SENSING; SATELLITES; INDONESIA.

0467 USUP, A. Reactions of micro-particles of tropical peat under pyrolysis/Usup, A. (Hokkaido University (Japan)); Hashimoto, Y.; Hanazono, K.; Tamari, M.; Hayasaka, H.. Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 163-167 4 ill., 1 table; 6 ref. Summary (En)

PEATLANDS; TROPICAL ZONES; FOREST FIRES; ENERGY EXCHANGE; CLIMATIC CHANGE; PYROLYSIS; POLLUTANTS.

L01 ANIMAL HUSBANDRY / PETERNAKAN

0468 AZNUR, J.N. [Optimize and economic competition of beef cattle husbandry]. Optimalisasi dan daya saing usaha peternakan sapi potong/Aznur, J.N.; Kuntjoro, S.U.; Kuntjoro; Mudikdjo, K.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 77-78

BEEF CATTLE; ANIMAL HUSBANDRY; ECONOMIC COMPETITION; DOMESTIC PRODUCTION.

0469 NATAWIGENA, W.D. [Development of local honey bee culture and its byproduct management]. Pengembangan wirausaha budidaya lebah madu jenis lokal secara

modern dan pengelolaan hasil sampingannya yang bernilai ekonomi tinggi/Natawigena, W.D.; Ringsipamrih, T.; Istifadah, N.; Susanto, A.; Kastaman, R. (Universitas Padjadjaran, Bandung (Indonesia). Fakultas Pertanian). Jurnal Pengabdian Kepada Masyarakat (Indonesia) ISSN 1410-5675 (2000) v. 9(1) p. 60-65 10 ref. Summary (In)

HONEY BEES; APICULTURE; ENTERPRISES; MANAGEMENT; TECHNOLOGICAL CHANGES; ECONOMIC VALUE.

0470 PRASETYO, H. [MA (Mojosari and Alabio) duck: new breeds for egg producers]. Itik niaga MA: pendatang baru penghasil telur/Prasetyo, H. (Balai Penelitian Ternak, Ciawi-Bogor (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4427 (2002) v. 24(4) p. 18-19 2 ill., 1 table

DUCKS; SPECIES; BREEDS; EGG PRODUCTION.

0471 TAMBUNAN, M. [Development of natural sericulture and its relation with non oil and gases export, import substitution and agroindustry with environment perspective]. Pengembangan persuteraan alam dan kaitannya dengan upaya peningkatan ekspor nonmigas, substitusi impor, serta agroindustri berwawasan lingkungan/Tambunan, M.; Siregar, H.; Rachmina, D.; Kuntjoro, S.U. (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 157-158

SILKWORMS; DEVELOPMENT POLICIES; MARKETING; AGRO-INDUSTRIAL SECTOR; ENVIRONMENT.

L02 ANIMAL FEEDING / PAKAN TERNAK

0472 AMRULLAH, I.K. [Effect of temperature, rice husk and energy-protein level of rations on soybean nutritive value

fermented by mollusc microbial for native chicken feeds]. Pengaruh suhu, dedak dan taraf energi-protein ransum terhadap nilai nutrisi kacang kedelai yang difermentasi oleh mikrob asal bekicot untuk pakan ayam kampung/Amrullah, I.K.; Iskandar, S.; Murtisari, T. (Institut Pertanian Bogor (Indonesia). Fakultas Peternakan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 105

CHICKENS; RATIONS; SOYBEANS; FERMENTATION; MICROORGANISMS; ACHATINA FULICA; TEMPERATURE; PROTEIN CONTENT; NUTRITIVE VALUE.

0473 ASKAR, S. [Effect of Zinc methionine addition on *in vitro* rumen simulation on volatile fatty acids production]. Pengaruh penambahan Zink methionina ke dalam simulasi rumen secara *in vitro* terhadap produksi asam lemak/Askar, S.; Abdurachman (Balai Penelitian Ternak, Ciawi-Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 69-72 1 ill., 2 tables; 10 ref.

SHEEP; FEEDS; ZINC; METHIONINE; IN VITRO EXPERIMENTATION; RUMEN DIGESTION; VOLATILE FATTY ACIDS; PRODUCTION.

0474 BUTAR-BUTAR, T.B. Effect of seaweeds on the blood and meat lipid layers. Pengaruh rumput laut terhadap kadar lipida darah dan daging ayam petelur/Butar-Butar, T.B. (Universitas Sam Ratulangi, Manado (Indonesia). Fakultas Peternakan). Gizi Indonesia (Indonesia): Journal of the Indonesian Nutrition Association ISSN 0436-0265 (2001) v. 25 p. 2 ill., 6 tables; 19 ref. Summary (En)

LAYER CHICKENS; SEAWEEDES; FEEDS; PROXIMATE COMPOSITION; BLOOD LIPIDS; CHOLESTEROL; CHICKEN MEAT.

0475 IMRAN. Botanical composition, chemical composition and *in vitro* digestibility of pasture at Doroncanga in Dompu Regency (Indonesia). Komposisi botani, komposisi nutrisi dan kecernaan *in vitro* hijauan padang penggembalaan Doroncanga Kabupaten Dompu/Imran (Universitas Mataram, (Indonesia). Fakultas Peternakan). Jurnal Ilmu dan Teknologi Peternakan (Indonesia) ISSN 1412-6990 (2000) v. 1(2) p. 84-90 1 table; 12 ref. Summaries (En,In)

PASTURES; BOTANICAL COMPOSITION; HETEROPOGON CONTORTUS; IMPERATA CYLINDRICA; DOMINANT SPECIES; CHEMICAL COMPOSITION; DIGESTIBILITY; IN VITRO EXPERIMENTATION; GRAZING INTENSITY.

0476 SUPRATOMO, R.T. ["Padang lamun" function as feed hunting area using coral reef fish migration indicator]. Fungsi padang lamun sebagai area mencari makan dengan indikator migrasi ikan terumbu karang/Supratomo, R.T.; Soedharma, D.; Sjafei, D.S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 97-98

FISHES; FEEDS; CORAL REEFS; ANIMAL MIGRATION.

0477 TAMZIL, M.H. Effect of niacine supplementation on egg production and yolk cholesterol level of Tegal duck eggs. Pengaruh suplementasi niasin dalam pakan terhadap kinerja produksi telur dan kadar kolesterol kuning telur itik Tegal/Tamzil, M.H. (Universitas Mataram, (Indonesia). Fakultas Peternakan). Jurnal Ilmu dan Teknologi Peternakan (Indonesia) ISSN 1412-6990 (2000) v. 1(2) p. 91-97 3 ill., 1 table; 13 ref. Summaries (En,In)

DUCKS; EGG YOLK; CHOLESTEROL; EGG PRODUCTION; SUPPLEMENTARY FEEDING; NICOTINAMIDE; FEED CONSUMPTION; ALBUMINS.

0478 WRESDIYATI, T. [Immunohistochemical detection of antimicrobial protein and immunity stimulant-Lactoferrin on sheep udder cell (fed with sauropus leave extracts)]. Deteksi secara imunohistokimia protein antimikrob dan perangsang kekebalan-laktoferin pada sel-sel ambing domba yang diberi pakan ekstrak daun katuk/Wresdiyati, T. (Institut Pertanian Bogor (Indonesia).

Fakultas Kedokteran Hewan); Suprayogi, A.; Agungpriyono, S.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 48-49

SHEEP; FEEDS; SAUROPUS; LEAVES; EXTRACTS; LACTOFERRIN; PROTEIN; ANTIMICROBIALS; ANTIBODIES; CELLS.

L10 ANIMALS GENETIC AND BREEDING / GENETIKA DAN PEMULIAAN TERNAK

0479 BOEDIONO, A. [Embryo cloning through engineering and identic twin and freezing using vitrification method]. Kloning embrio melalui rekayasa dan pembuatan kembar identik serta pembekuan dengan metode vitrifikasi/Boediono, A.; Mohamad, K.; Djuwita, I.; Sukra, Y.; Rusyantono, Y. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 71

GOATS; MOLECULAR CLONING; IN VITRO FERTILIZATION; VITRIFICATION; SIBLINGS; EMBRYO SPLITTING.

0480 ELLA, A. [Improvement of Bali cattle genetic quality through artificial insemination technique using synchronization method of sexual desire]. Upaya Peningkatan mutu genetik sapi bali melalui teknik inseminasi buatan dengan metode sinkronisasi birahi/Ella, A.; Ishak, L.; Rusman, M. (Balai Pengkajian Teknologi Pertanian, Sulawesi Tengah-Kendari (Indonesia)). [Acceleration of breeding for reliable agriculture in globalization era: Proceedings of the 5th Symposium of Indonesian Association of Breeding Science]. Akselerasi pemuliaan mewujudkan pertanian tangguh di era

globalisasi: Prosiding Simposium 5 Perhimpunan Ilmu Pemuliaan Indonesia (Peripi)/Ashari, S.; Soegianto, A.; Nugroho, A.; Poespodarsono, S.; Lamadji, S.; Kasno, A.; Soetopo, L.; Basuki, N. (eds.) . Malang (Indonesia): UNIBRAW, 1999 p. 404-409 3 tables; 14 ref. Summary (In)

BEEF CATTLE; ARTIFICIAL INSEMINATION; PROGESTERONE; RADIO-IMMUNOASSAY; GENETICS; QUALITY.

0481 MAYLINDA, S. [Performance of domestic cattle and crossbreeding and its relation to *Toxocara vitulorum* infection]. Performans sapi lokal dan persilangan dalam hubungannya dengan infeksi cacing *Toxocara vitulorum*/Maylinda, S.; Trisunuwati, P. (Universitas Brawijaya, Malang (Indonesia). Fakultas Peternakan). [Acceleration of breeding for reliable agriculture in globalization era: Proceedings of the 5th Symposium of Indonesian Association of Breeding Science]. Akselerasi pemuliaan mewujudkan pertanian tangguh di era globalisasi: Prosiding Simposium 5 Perhimpunan Ilmu Pemuliaan Indonesia (PERIPI)/Ashari, S.; Soegianto, A.; Nugroho, A.; Poespodarsono, S.; Lamadji, S.; Kasno, A.; Soetopo, L.; Basuki, N. (Eds.) . Malang (Indonesia): UNIBRAW, 1999 p. 399-403 1 table; 4 ref. Summary (In)

CATTLE; BREEDS; LIVESTOCK; CROSSBREED; TOXOCARA; HELMINTHOSES; INFECTION.

0482 PRAYOGA, S.B.K. [Development pattern of priangan sheep breeds in rural areas]. Pola pengembangan bibit domba priangan di pedesaan/Prayoga, S.B.K.; Mulyadi, D.; Heriyadi, D.; Munandar; Hadiana (Universitas Padjadjaran, Bandung (Indonesia). Fakultas Pertanian). Jurnal Pengabdian Kepada Masyarakat (Indonesia) ISSN 1410-5675 (2000) v. 9(1) p. 55-59 8 ref. Summary (In)

SHEEP; BREEDING METHODS; SELECTION CRITERIA; REPRODUCTIVE PERFORMANCE.

0483 SAEFUDDIN, A. [Increasing sheep genetic quality through integrated selection program]. Peningkatan mutu genetika domba ekor gemuk melalui program seleksi terpadu/Saefuddin, A. (Institut Pertanian

Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam); Noor, R.R.; Djajanegara, A.; Inounu, I. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 84

SHEEP; SELECTION; GENETICS; QUALITY.

0484 SOLIHIN, D.D. [Application of RFLP markers and mitochondria DNA to increase honey bee production in Indonesia]. Penggunaan penanda RFLP dan DNA mitokondria untuk meningkatkan usaha lebah madu di Indonesia/Solihin, D.D.; Atmowidhi, T.; Waluyo, D.; Ariani, A.; Widiyastuti, B. (Institut Pertanian Bogor (Indonesia). Fakultas Matematika dan Ilmu Pengetahuan Alam). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 82

APIS; ANIMAL HUSBANDRY; HONEY PRODUCTION; RFLP; DNA; CROSS-BREEDING; ARTIFICIAL INSEMINATION; INDONESIA.

0485 SUMANTADINATA, K. [Technology of high yielding breeds production of carp]. Teknologi produksi benih unggul ikan mas/Sumantadinata, K.; Raswin, M.M.; Hadiroseyani, Y.; Alimuddin; Arfah, H. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 125

CYPRINUS CARPIO; CROSSBREEDING; HYBRIDS; HIGH YIELDING BREEDS; GROWTH PERIOD; TECHNOLOGY.

0486 SUPRIATNA, I. [Study of Human Chorionic Gonadotropin (HCG) on Pregnant Mare Serum Gonadotropin PMSG-MoAb superovulation anti PMSG on increasing milk production and direct transfer method application on embryo cryopreservation of dairy cattle]. Kajian aplikasi HCG pada superovulasi PMSG-MoAb anti PMSG dalam usaha peningkatan hasil panen serta aplikasi metode transfer langsung dalam kriopreservasi embrio sapi perah/Supriatna, I.; Yusuf, T.L.; Purwantara, B. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Moekti, G.; Pardede, L.; Humianto, H. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 64-65

DAIRY CATTLE; PMSG; SUPER-OVULATION; BIOLOGICAL PRESERVATION; FREEZING; EMBRYO PRESERVATION; EMBRYO TRANSFER; ETHYLENE GLYCOL; SUCROSE; SURVIVAL.

0487 WIDJAJAKUSUMA, R. [Effectivity of cryoprotectan and evaluation of cryopreserved spermatozoa as a potential contribution on genetic preservation of wild chickens]. Efektivitas krioprotektan dan evaluasi kualitas spermatozoa hasil kriopreservasi sebagai kontribusi potensial preservasi genetika ayam hutan hijau yang ditangkarkan/Widjajakusuma, R.; Ekastuti, D.R. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Supriatna, I.; Nurdiani, N.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 50

CHICKENS; CRYOPROTECTANS; QUALITY; SPERMATOZOA; BIOLOGICAL PRESERVATION; FREEZING; SEMEN; ETHYLENE.

L20 ANIMAL ECOLOGY / EKOLOGI HEWAN

0488 MUNTASIB, E.K.S.H. [Project pilot of *Rhinoceros sondaicus* habitat management]. Pilot proyek pengelolaan habitat badak jawa/ Muntasib, E.K.S.H.; Haryanto; Rinaldi, D.; Masyud, B. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 134

RHINOCEROSES; HABITATS; FEED CROPS; MANAGEMENT; SOIL FERTILITY; MICROCLIMATE.

L53 ANIMAL PHYSIOLOGY - REPRODUCTION / FISILOGI TERNAK - REPRODUKSI

0489 ARFAH, H. [Manipulation of hormone and temperature to produce homogamet on monosexual culture development of *Pangasius hypophthalmus*]. Manipulasi hormon dan suhu untuk produksi jantan homogamet (XX) dalam rangka pengembangan budi daya monoseks betina ikan patin/Arfah, H.; Sumantadinata, K.; Carman, O. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan); Nurhidayat. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 72

PANGASIUS; HORMONES; TEMPERATURE; SEXUAL REPRODUCTION; MALES; FEMALES; FISH LARVAE.

0490 KUSUMORINI, N. [Related principle of fetus and uterus position on main uterus to animal breeding capability using rats as laboratory animals]. Kaidah hubungan letak posisi fetus dalam uterus induk terhadap kemampuan perkembangbiakan hewan setelah

dewasa menggunakan tikus sebagai hewan model/Kusumorini, N. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Permadi, H.; Satyaningtjas, A.S.; Nasution, S.H.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 62

RATS; LABORATORY ANIMALS; FOETUS; UTERUS; REPRODUCTION.

0491 SUKRA, Y. [Application of *in vitro* fertilization technique on increasing animal population and production of oviduct and serum of sheep]. Penerapan teknologi fertilisasi *in vitro* dalam upaya meningkatkan populasi ternak serta produksi sel oviduk dan serum domba/Sukra, Y.; Purwantara, B.; Djuwita, I.; Muhamad, K.; Rusiyantono, Y. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 78-79

SHEEP; FERTILIZATION; IN VITRO; OVIDUCTS; EMBRYO CULTURE; EMBRYONIC DEVELOPMENT.

0492 UTIAH, A. [Yearly reproduction pattern of *Pangasius hypophthalmus* in different fresh water ponds]. Pola reproduksi tahunan ikan jambal siam (*Pangasius hypophthalmus*) di dalam wadah budidaya bersumber air sungai dan air danau/Utiah, A.; Junior, M.Z.; Sjafei, D.S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v.24(2) p. 148-149

PANGASIUS; REPRODUCTION; WATER RESOURCES; RIVERS; LAKES; JAVA.

0493 WIDJAJAKUSUMA, R. [Study of *Gallus varius* biology and its conservation strategy through frozen semen production technology and artificial insemination]. Studi

biologi ayam hutan hijau dan strategi konservasinya melalui teknologi produksi semen beku dan inseminasi buatan/Widjajakusuma, R.; Sikar, S.H.S.; Purwantara, B.; Indyastuti, R.; Triatmo, B.S.; Nurdiani, N.; Iskandar, M.; Ekastuti, D.R. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Solihin, D.D. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 90-91

CHICKENS; ZOOLOGY; ANIMAL PHYSIOLOGY; REPRODUCTION; SEMEN; ARTIFICIAL INSEMINATION; GENETIC RESOURCES; RESOURCE CONSERVATION; FERTILITY.

0494 YULIANI, E. Increasing of Y chromosome - bearing spermatozoa ratio of bali cattle. Peningkatan rasio spermatozoa berkromosom Y pada sapi bali/Yuliani, E. (Universitas Mataram, (Indonesia). Fakultas Peternakan). Jurnal Ilmu dan Teknologi Peternakan (Indonesia) ISSN 1412-6990 (2000) v. 1(2) p. 74-83 2 tables; 37 ref. Summaries (En, In)

CATTLE; SPERMATOZOA; CHROMOSOMES; IN VITRO FERTILIZATION; MOVEMENT; METHODS.

L60 ANIMAL TAXONOMY AND GEOGRAPHY / TAKSONOMI HEWAN DAN SEBARAN GEOGRAFINYA

0495 HADI, U.K. Taxonomic and geographical distribution studies of culicoides (Diptera: Ceratopogonidae) in Indonesia. Telaah taksonomi dan penyebaran geografik culicoides (Diptera: Ceratopogonidae) di Indonesia/Hadi, U.K.; Soviana, S.; Sigit, S.H. Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan. Bogor (Indonesia): IPB, 2000 70 p. 17 ill., 2 tables; 12 ref. Summaries (En, In)

CULICOIDES; BIODIVERSITY; TAXONOMY; GEOGRAPHICAL DISTRIBUTION; INDONESIA.

L70 VETERINARY SCIENCE AND HYGIENE - GENERAL ASPECTS / ILMU VETERINER DAN KESEHATAN TERNAK - ASPEK UMUM

0496 SENDOW, I. Isolation of parainfluenza virus type 3 from Pneumonia cases in goat and sheep. Isolasi virus parainfluenza tipe 3 dari kasus Pneumonia kambing dan domba/Sendow, I.; Syafriati, T.; Wiedosari, I. (Balai Penelitian Veteriner, Bogor (Indonesia)); Selleck, P. [Proceedings of the National Seminar on Animal Husbandry and Veterinary Technology]. Prosiding Seminar Nasional Teknologi Peternakan-Veteriner/Haryanto, B.; Setiadi, B.; Sinurat, A.P.; Mathius, I W.; Situmorang, P., Nurhayati; Ashari, Abubakar; Murdiati, T.B.; Hastiono, S.; Hardjoutomo, S.; Adid, R.M.A.; Priadi, A. [eds.] Pusat Penelitian dan Pengembangan Peternakan, Bogor (Indonesia). Bogor (Indonesia): PUSLITBANGNAK, 2001: p. 503-508 1 table., 7 ref. Summaries (En, In).

GOATS; SHEEP; PRAMYXOVIRIDAE; VIROSES; PNEUMONIA; ISOLATION TECHNIQUES; DISEASE CONTROL.

0497 SOERIPTO. An approach to animal health concept through vaccination. Pendekatan konsep kesehatan hewan melalui vaksinasi/Soeripto (Balai Penelitian Veteriner, Bogor (Indonesia)). Jurnal Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4418 (2002) v. 21(2) p. 48-55 10 tables; bibl. 54-55. Summaries (En, In)

LIVESTOCK; ANIMAL HEALTH; VACCINATION; BACTERIA; ANTIBIOTICS; TREATMENT DATE; RESIDUES; RESISTANCE TO CHEMICALS.

L72 PESTS OF ANIMALS / HAMA DAN PARASIT TERNAK

0498 KOESHARTO, F.X. [Utilization of *Hymenoptera pteromalidae* on biological control method of *Musca domestica* on chickens in Bogor (Indonesia)]. Upaya pemanfaatan serangga parasitoid (*Hymenoptera pteromalidae*) dalam metode pengendalian hayati lalat pengganggu dalam peternakan ayam di Bogor/Koesharto, F.X.; Soviana, S. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Sukarsih; Kasno. [Autonomy of superior

agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 126-127

CHICKENS; MUSCA DOMESTICA; BIOLOGICAL CONTROL; PARASITOIDS; HYMENOPTERA; JAVA.

0499 RETANANI, E.B. [Parasite worms population on digestive system of native chickens]. Populasi cacing parasit pada saluran pencernaan ayam buras/Retanani, E.B.; Satrija, F.; Ridwan, Y.; Tiuria, R. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 86

CHICKENS; HETERAKIS; ASCARIDIDAE; CAPILLARIA; TETRAMERES; DIGESTIVE; SYSTEMIC DISEASES; PARASITES; ANIMAL POPULATION.

L73 ANIMAL DISEASES / PENYAKIT TERNAK

0500 AGUNGPRIYONO, S. [Identification and isolation of antimicrobial protein and lactoferrin immunity regulator of squirrel (*Tupaia javanica*)]. Identifikasi dan isolasi protein antimikrob dan pengatur kekebalan laktoferin pada tupai/Agungpriyono, S.; Kusumorini, N.; Andyane, I K.M.; Ratih, D. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 59

SQUIRRELS; LACTOFERRIN; ANTI-MICROBIALS; IDENTIFICATION;

ISOLATION; ANIMAL TISSUES; IMMUNOBLOTTING; SPECTROMETRY.

0501 CAHYANINGSIH, U. [Coccidia vaccine formulation containing Eimeria for chickens]. Formulasi vaksin coccidia yang mengandung Eimeria untuk ayam/Cahyaningsih, U. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 21

CHICKENS; COCCIDIA; VACCINES; SPECIES; COCCIDIOSIS; FORMULATIONS.

0502 DANA, D. [Development of prawn larvae resistance to *Monodon baculovirus*]. Pengembangan benih udang windu yang resisten terhadap *Monodon baculovirus*/Dana, D.; Riani, E.; Soewardi, K. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 106

PENAEUS MONODON; PRAWNS AND SHRIMPS; FISH DISEASES; CROSS-BREEDING; FISH LARVAE; DISEASE RESISTANCE.

0503 DARMONO. [Effect of chronic Cadmium toxicity on layer chickens immunity to Newcastle Disease (ND)]. Pengaruh toksisitas Kadmium kronis terhadap daya kekebalan ayam petelur dari virus ND (imunitas humoral)/Darmono. [Report of veterinary research project, Bogor (Indonesia)]. Laporan hasil pengkajian penelitian bagian proyek penelitian penyakit hewan Bogor/Balai Penelitian Veteriner, Bogor (Indonesia). Bogor (Indonesia): BALITVET, 2001 (pt. 9) 6 p. 2 ill., 2 tables; 12 ref.

LAYER CHICKENS; CADMIUM;
TOXICITY; IMMUNE RESPONSE;
VACCINATION.

0504 HANDAYANI, S.U. [Collection, purification, and storage of *Eimeria tenella* merozoit for bioactive compound production on coccidiosis immunization of chickens]. Koleksi, purifikasi dan penyimpanan merozoit *Eimeria tenella* untuk produksi bahan bioaktif dalam imunisasi koksidiosis pada ayam/Handayani, S.U.; Cahyaningsih, U. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 167

CHICKENS; EIMERIA TENELLA;
COCCIDIOSIS; IMMUNIZATION; COL-
LECTIONS; PURIFICATION; STORAGE;
CONTROLLED ATMOSPHERE STORAGE.

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LIVESTOCK; BACILLUS ANTHRACIS;
DISEASE CONTROL; INFECTION;
DIAGNOSIS; SYMPTOMS.

0506 KURNIADHI, P. [Hemagglutination blocked test method as examination technique of serologic diagnosis on aujeszky disease]. Metode uji hambat hemaglutinasi (Hi test) sebagai teknik pemeriksaan diagnosis serologik terhadap penyakit aujeszky/Kurniadhi, P. (Balai Penelitian Veteriner, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 58-61 1 table; 11 ref.

SWINE; AUJESZKY'S DISEASES;
HAEMAGGLUTINATION TESTS;
IMMUNODIAGNOSIS.

0507 LELANA, R.P.A. [Effect of skualena on dislipidemia of *Macaca fascicularis*].

Pengaruh skualena terhadap dislipidemia pada monyet ekor panjang/Lelana, R.P.A.; Ungerer, T.; Suparto, I.H. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 80

MACACA; ANIMAL DISEASES; DIET;
FATS; CHOLESTEROL; MEDICATED
FEEDS; LIPOPROTEINS.

0508 MURDIATI, T.B. [Research of traditional medicine on livestock health system]. Penelitian obat tradisional dalam sistem kesehatan ternak/Murdiati, T.B.. [Report of veterinary research project, Bogor (Indonesia)]. Laporan hasil pengkajian penelitian bagian proyek penelitian penyakit hewan Bogor/Balai Penelitian Veteriner, Bogor (Indonesia). Bogor (Indonesia): BALITVET, 2001 (pt. 8) 6 p. 7 tables; 8 ref.

BROILER CHICKENS; TRADITIONAL
MEDICINES; GINGER; FEEDS; ANIMAL
HEALTH.

0509 PAREDE, L. [Characterization and specification of dwarf disease (reoviridae, enterovirus like particle) and Chicken Anaemia Virus (CAV)]. Karakterisasi dan spesifikasi virus penyakit kekerdilan (reoviridae, enterovirus like particle) dan Chicken Anaemia Virus (CAV)/Parede, L.. [Report of veterinary research project, Bogor (Indonesia)]. Laporan hasil pengkajian penelitian bagian proyek penelitian penyakit hewan Bogor/Balai Penelitian Veteriner, Bogor (Indonesia). Bogor (Indonesia): BALITVET, 2001 (pt. 6) 11 p. 4 ill., 5 tables; 14 ref.

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VACCINATION.

0511 SUHARDONO. [*Fasciola gigantica* control on cattle]. Pengendalian cacing hati pada ternak sapi/Suhardono (Balai Penelitian Veteriner, Bogor (Indonesia)). BALITVET Newsletter (Indonesia) ISSN 0215-8949 (2002) v. 16(2) p. 7-8

CATTLE; FASCIOLA GIGANTICA;
CONTROL METHODS.

0512 WIBAWAN, I W.T. [Biovar characteristic of *Streptococcus agalactiae* as a guide for cross infection between cattle and human]. Ciri biovar *Streptococcus agalactiae* sebagai petunjuk infeksi silang antara sapi dan manusia/Wibawan, I W.T.; Pasaribu, F.H. (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan); Humianto, H.; Estuningsih, S.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 47

CATTLE; STREPTOCOCCUS
AGALACTIAE; INFECTION; ANTIGENS;
MANKIND; HAEMAGGLUTINATION
TESTS.

**M01 FISHERIES AND AQUACULTURE
- GENERAL ASPECTS / PER-
IKANAN DAN BUDIDAYA PER-
AIRAN - ASPEK UMUM**

0513 JOHAN, O. [Successful level of coral reefs transplanted in Seribu Islands, Jakarta (Indonesia)]. Tingkat keberhasilan transplantasi karang batu di gugusan Pulau Pari Kepulauan Seribu Jakarta/Johan, O.; Soedharma, D.; suharsono. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 93-94

CORAL REEFS; TRANSPLANTATION;
JAVA; ISLANDS.

**M11 FISHERIES PRODUCTION /
PRODUKSI PERIKANAN**

0514 HAMIDAH, A. [Diversity and abundance of mollusc communities in North Kerinci lake (Sumatra, Indonesia)]. Keragaman dan kelimpahan komunitas moluska di perairan bagian utara Danau Kerinci/Hamidah, A.; Sugiri, N.; Rahardjo. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 59-60

MOLLUSCA; BIODIVERSITY; AQUATIC
COMMUNITIES; LAKES; SUMATRA.

0515 PARIWONO, J.I. [Effect of el-nino southern oscillation on fish yields in Indonesia]. Pengaruh el-nino southern oscillation terhadap hasil tangkapan ikan di Indonesia/Pariwono, J.I. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 133

SALTWATER FISHES; FISHING
OPERATIONS; OCEANOLOGY;
CLIMATE; INDONESIA.

0516 SAMAWI, M.F. [Relation between community structure and biomass of phytoplankton with Nitrogen-Phosphorus on various coastal water ecosystems in Bone Batang Islands (Indonesia)]. Hubungan antara struktur komunitas dan biomassa fitoplankton dengan hara Nitrogen-Fosfor pada berbagai ekosistem pantai perairan Pulau Bone Batang/Samawi, M.F.; Adiwilaga, E.M.; Eidman, H.M.; Haryadi, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 146

PHYTOPLANKTON; BIOMASS;
NITROGEN; PHOSPHORUS; ECO-
SYSTEMS; COASTAL WATERS.

M12 AQUACULTURE PRODUCTION AND MANAGEMENT / PRODUKSI DAN PENGELOLAAN BUDIDAYA PERAIRAN

0517 HAMSIAH. [Role of mangrove molluscs (*Telescopium telescopium* L.) as biofilter on wastewater management of intensive prawn culture]. Peranan keong bakau (*Telescopium telescopium* L.) sebagai biofilter pengelolaan limbah budidaya tambak udang intensif/Hamsiah; Djokosetyanto, D.; Adiwilaga, E.M.; Nirmala, K.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 150-151

FRESHWATER MOLLUSCS; PRAWNS AND SHRIMPS; WASTE MANAGEMENT; PONDS; INTENSIVE FARMING.

0518 SJAFEI, D.S. [Supplying *Osteochilus hasselti* eggs as mainstay fisheries products]. Penyediaan telur ikan nilam sebagai produk perikanan andalan/Sjafei, D.S.; Saputra, U.H.; Affandi, R. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 118

FRESHWATER FISHES; OVIPOSITION; REARING TECHNIQUES; MATURATION; GENITALIA; SALINITY; TEMPERATURE; CALCIUM; SURVIVAL; GROWTH; OVA; PRODUCTION; EGG PRODUCTS.

0519 WINANTO, T. [Preference of pearl (*Pinctada maxima*) on diameter and crude levels of collector material]. Preferensi spat tiram mutiara *Pinctada maxima* (Jameson) (Bivalvia: Pteriidae) terhadap diameter dan tingkat kekasaran bahan kolektor/Winanto, T.; Soedharma, D.; Affandi, R.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 95-96

PEARL; OYSTERS; PINCTADA; DIAMETER.

N20 AGRICULTURAL MACHINERY AND EQUIPMENT / MESIN-MESIN DAN PERALATAN PERTANIAN

0520 BUDIASTRA, I W. [Engineering of automatic durian sortation equipment based on maturity and injury levels by ultrasonic wave technology]. Rekayasa alat sortasi durian otomatis berdasarkan tingkat kematangan dan kerusakan dengan teknologi gelombang ultrasonik/Budiastra, I W.; Ahmad, U. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Widodo, P.; Nasution, D.A.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 203-204

DURIO ZIBETHINUS; SORTING EQUIPMENT; PROTOTYPE; ULTRA-SONICS; MATURITY; TECHNOLOGY.

0521 PRAEKO A.S., R. [Engineering of low power chisel using electro-osmotic lubrication technique]. Rekayasa chisel bertahanan tarik rendah dengan penerapan teknik pelumasan elektro-osmotik/Praeko A.S., R.; Suastawa, I N.; Hermawan, W.; Sembiring, N. (Pusat Pengkajian dan Penerapan Ilmu Teknik untuk Pertanian Tropika (Indonesia)). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 205

TRACTORS; TILLAGE; LUBRICATION; DESIGN; PROTOTYPES.

0522 PURWADARIA, H.K. [Developing electra-optical system and artificial intelligence for fruits sortation equipment engineering]. Pengembangan sistem elektro-optik dan kecerdasan buatan untuk perkerayaan alat sortasi buah-buahan/Purwadaria, H.K.; Saputra, D.; Budiastra, I W. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Wijanto. [Autonomy of superior agricultural

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FRUITS; SORTING EQUIPMENT; ELECTRONICS; COMPUTER APPLICATIONS; PROTOTYPES; GRADING; COLOUR; FLAVOUR; MEASUREMENT; CHEMICOPHYSICAL PROPERTIES.

0523 PURWADARIA, H.K. [Engineering of drying and milling equipment *Amorphophallus* bulbs]. Rekayasa alat pengering dan penggiling umbi *Amorphophallus* bulbs. Purwadaria, H.K. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Unadi, A.; Haryadi; Triwahyudi, S.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 201-202

AMORPHOPHALLUS; DRIED PRODUCTS; DRYERS; MILLING; DESIGN; EQUIPMENT TESTING; QUALITY; PRODUCTION INCREASE.

0524 RACHMAT, R. Design and performance test of Solar-Zeolite drying system for rough rice. Desain dan uji penampilan bangunan pengering gabah bertenaga Surya-Zeolit/Rachmat, R. (Balai Penelitian Tanaman Padi, Sukamandi (Indonesia); Kato, K.; Ikeda, Y.. Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0216-9959 (2000) v. 19(2) p. 7-12 6 ill., 1 table; 6 ref. Summaries (En,In)

RICE; DRYERS; FARM EQUIPMENT; DRYING; DURATION; SOLAR ENERGY; ZEOLITES; EQUIPMENT PERFORMANCE; PROTOTYPES; MOISTURE CONTENT.

0525 SETIAWIHARDJA, B. [Design of unggul diam bioreactor for enzymatic reaction using recycling systems]. Rancang

bangun bioreaktor unggul diam untuk reaksi enzimatik dengan sistem daur ulang/Setiawihardja, B.; Hariyadi, P.; Budijanto, S. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 34-35

OIL PALMS; DESIGN; COCOA BUTTER; BIOREACTORS; PROCESSING; INFRARED; SPECTROMETRY.

0526 SURJOKUSUMO, S. [Grading machine for construction wood]. Mesin pemilah kayu konstruksi/Surjokusumo, S.; Nugroho, N. (Institut Pertanian Bogor (Indonesia)); Bachtiar, E.T.; Firmanti, A.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 25

WOOD; CONSTRUCTION MATERIALS; GRADING; SORTING EQUIPMENT.

0527 SUTEJO, A. [Drum dryer using direct heating]. Pengering drum dengan pemanasan langsung/Sutejo, A.; Wartono (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 29

FLOURS; EQUIPMENT PERFORMANCE; DRYERS; FOOD INDUSTRY EQUIPMENT; HEATING.

0528 SUTEJO, A. [Grading machine based on measurement]. Mesin grading berdasarkan ukuran/Sutejo, A.; Wartono (Institut Pertanian

Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/ Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 24

VEGETABLE CROPS; FRUIT CROPS; SORTING EQUIPMENT; GRADING; CONVEYER.

0529 SUTEJO, A. [Semi mechanical dibble]. Tugal semi mekanis/Sutejo, A.; Wartono; Zulfahrizal (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/ Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 42

LEGUMINOSAE; PLANTING EQUIPMENT; SEED DRILLS.

0530 YUSUP P., C. [Efficiency of *Arachis hypogaea* production increase]. Terobosan untuk meningkatkan efisiensi penanaman kacang tanah/Yusup P., C.; Sulistiadji, K.; Tri M., L. (Balai Besar Pengembangan Mekanisasi Pertanian Tangerang (Indonesia)). Warta Penelitian dan Pengembangan Pertanian (Indonesia) ISSN 0216-4427 (2002) v. 24(6) p. 18-19 1 ill.

ARACHIS HYPOGAEA; PLANTING EQUIPMENT; PRODUCTION INCREASE; SEED.

P01 NATURE CONSERVATION AND LAND RESOURCES / KONSERVASI SUMBERDAYA ALAM DAN SUMBERDAYA LAHAN

0531 DJAJA, B. [Conservation program of biological resources and environment as the base of social development in Seribu Islands, Jakarta Indonesia]. Program pelestarian sumberdaya hayati dan lingkungan sebagai

basis pemberdayaan masyarakat pulau-pulau kecil di kepulauan Seribu, DKI Jakarta/Djaja, B. (Universitas Nasional, Jakarta (Indonesia). Fakultas Biologi). Ilmu dan Budaya (Indonesia) ISSN 0126-2602 (2002) v. 22(22) p. 77-82 5 ref. Summary (En)

BIOLOGICAL RESOURCES; BIODIVERSITY; NATURE CONSERVATION; ENVIRONMENT; COASTAL WATERS; JAVA.

0532 MUNTASIB, E.K.S.H. [Study of competition between two species of *Bos javanicus* (badak jawa dan banteng) in Ujung Kulon National Park, West Java (Indonesia)]. Studi persaingan antara banteng dengan badak jawa di Taman Nasional Ujung Kulon, Jawa Barat/Muntasib, E.K.S.H.; Rushayati, S.B.; Haryanto; Rinaldi, D. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/ Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 136

RHINOCEROSSES; BANTENG; ANIMAL COMPETITION; FEEDS; FEEDING HABITS; MANAGEMENT; NATIONAL PARKS; JAVA.

0533 PATTIMAHU, D.V. [Effect of urban settlement on well water quality in Ambon (Indonesia)]. Pengaruh lingkungan permukiman perkotaan terhadap kualitas air sumur: kasus Kotamadya Ambon, Propinsi Maluku/Pattimahu, D.V.; Saeni, M.S.; Lay, B.W.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 124-126

MALUKU; URBAN ENVIRONMENT; WATER QUALITY; WELLS.

0534 RUSLAN, H. [The diversity of butterflies in Sukarame village, Padang Cermin, South Lampung (Sumatra, Indonesia)]. Keanekaragaman kupu-kupu di Desa Sukarame, Padang Cermin, Lampung Selatan/Ruslan, H. (Universitas Nasional Jakarta (Indonesia). Fakultas Biologi). Ilmu dan Budaya (Indonesia) ISSN 0126-2602

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LEPIDOPTERA; BIODIVERSITY;
NATURE CONSERVATION; SUMATRA.

0535 SEDIJOPRAPTO, E.I. [Arboretum manggala wanabakti: WFC 8 delegatie plants, literature review]. Arboretum manggala wanabakti: tanaman delegasi WFC 8, tinjauan literatur/Sedijoprpto, E.I.; Dewi, A.R. Badan Pengelola Gedung Manggala Wanabakti, Jakarta (Indonesia). Jakarta (Indonesia): Badan Pengelola Gedung Manggala Wanabakti, 2001 198 p. 57 ill. Bibl. p. 131-175

FOREST TREES; NATURE
CONSERVATION.

0536 SETIA, T.M. Dissemination of research invention in biodiversity for community by conservational education programmes. Diseminasi hasil riset keanekaragaman hayati untuk masyarakat melalui program pendidikan konservasi/Setia, T.M. (Universitas Nasional, Jakarta (Indonesia). Fakultas Biologi); Hutabarat, H.P.; Kusumahadi, K.S.. Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-1754 (2002) v. 6(1) p. 151-158 2 ill., 16 ref. Summary (En)

JAVA; NATIONAL PARKS; BIO-
DIVERSITY; RESEARCH; EDUCATION.

0537 SUATA, S.P.K. [Intraspecies phylogeography of *Padda oryzivora* (Passeriformes: Ploceidae) in Bali Island (Indonesia)]. Filogeografi intraspecies gelatik (*Padda oryzivora* (L.)) (Passeriformes: Ploceidae) di pulau Bali/Suata, S.P.K.; Sugiri, N.; Widjajakusuma, R.; Mattjik, A.A.; Duryadi, D.; Adhikerana, A.S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 51-52

PASSERIFORMES; SPECIES; NATURE
CONSERVATION; BALI.

0538 SUSILO, F.X. Conservation of agrobiota resource: evaluation of current agricultural management practices in Lampung/Susilo, F.X.; Evizal, R.; Swibawa, I G.; Murwani, S.; Rustiati, E.L.. Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable

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IMPERATA; CONSERVATION TILLAGE;
AGROFORESTRY; AGROECOSYSTEMS;
LAMPUNG.

P10 WATER RESOURCES AND MANAGEMENT / SUMBERDAYA AIR DAN PENGELOLAANNYA

0539 AKRIMI. [Monitoring technique of water quality and plankton in Arang-arang lake, Jambi (Indonesia)]. Teknik pengamatan kualitas air dan plankton di reservat Danau Arang-arang Jambi/Akrimi; Subroto, G. (Balai Riset Perikanan Perairan Umum Marina, Palembang (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 54-57 1 ill., 2 tables; 13 ref.

PLANKTON; WATER QUALITY; WATER
CONSERVATION; SUMATRA.

0540 MURNIYANTO, E. [Inorganic quality of ground water at downstream surroundings of solid waste final disposal site at Putri Cempo Sala, Central Java (Indonesia)]. Kualitas anorganik air tanah kawasan hilir tempat pembuangan akhir sampah Putri Cempo Sala/Murniyanto, E. (Koordinator Perguruan Tinggi Swasta Wilayah VI, Semarang (Indonesia)); Mangkoedihardjo, S.. Jurnal Sains dan Teknologi Indonesia (Indonesia): Pengembangan Wilayah dan Lingkungan ISSN 1410-9409 (2000) v. 2(4) p. 82-86 2 tables; 11 ref. Summary (En)

SOIL WATER; WASTE DISPOSAL;
WATER QUALITY; INORGANIC
COMPOUNDS; LEACHATES.

0541 MURTIKUSONO, K. [Drainage system model in relation with pyrite oxidation and its effect on soil chemico-physical properties and water quality on acid sulphate soil]. Model sistem drainase dalam hubungannya dengan oksidasi pirit serta pengaruhnya terhadap sifat kimia tanah dan kualitas air pada tanah sulfat masam/Murtikusono, K.; Sudarmo; Sutandi, A.; Djajakirana, G.; Sudadi (Institut Pertanian

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IRRIGATED RICE; WATER MANAGEMENT; SOIL CHEMICOPHYSICAL PROPERTIES; WATER QUALITY; LEACHING; GROWTH; YIELDS; ACID SULPHATE SOILS.

0542 WULYOADI, S. Reutilization of excess activated sludge by using alkalophilic microbes producing extracellular alkaline protease. Pemanfaatan kembali lumpur aktif berlebihan oleh mikroba alkalofilik penghasil enzim protease/Wulyoadi, S. (Balai Pengkajian Bioteknologi, Serpong, Tangerang (Indonesia)). Jurnal Biosains dan Bioteknologi Indonesia (Indonesia): Indonesian Journal for Bioscience and Biotechnology ISSN 1412-0984 (2001) v. 1(1) p. 24-27 3 ill., 12 ref. Summary (En)

BACILLUS; PROTEASES; ENZYME ACTIVITY; ACTIVATED SLUDGE; PH; SOLUBILIZATION.

P30 SOIL SCIENCE AND MANAGEMENT / ILMU TANAH DAN PENGELOLAANNYA

0543 ANON. [Marketing through E-commerce]. Menguasai pasar melalui E-commerce/Anon. Agromedia (Indonesia) (2001) v. 1(3) p. 22-23

AGROINDUSTRIAL SECTOR; AGRICULTURAL PRODUCTS; MARKETING; INFORMATION TECHNOLOGY; INTERNET.

P33 SOIL CHEMISTRY AND PHYSICS / KIMIA DAN FISIKA TANAH

0544 HAIRIAH, K. Decomposition process and activity of soil engineers when forests are converted into agricultural use/Hairiah, K. (Universitas Brawijaya, Malang (Indonesia). Fakultas Pertanian). Proceedings of Work-

shop on Management of Agro-biodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 53-61 4 ill., 2 tables; 10 ref.

FOREST SOILS; LAND MANAGEMENT; SOIL BIOLOGY; SOIL ORGANIC MATTER; FARMLAND.

0545 RACHIM, A. [Increasing acid sulphate soil productivity for palawija cultivation through leaching and amelioran application]. Peningkatan produktivitas tanah sulfat masam untuk budi daya tanaman palawija melalui pencucian dan penggunaan amelioran/Rachim, A.; Murti Laksono, K.; Astiana; Sudradjat (Institut Pertanian Bogor (Indonesia). Fakultas Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/ Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 116-117

FOOD CROPS; CULTIVATION; SOIL CHEMICOPHYSICAL PROPERTIES; LIMING; LEACHING; ORGANIC FERTILIZERS; PHOSPHATES; DRAINAGE; GROWTH; YIELDS; ACID SULPHATE SOILS.

0546 SAJARWAN, A. Diversity of tropical peat characteristics in intact peatland forest, under the influence of forest type, peat thickness, and position of peat deposit/Sajarwan, A. (Universitas Palangka Raya (Indonesia). Fakultas Pertanian); Notohadiprawiro, T.; Radjagukguk, B.; Hastuti, S.. Peatlands for people: natural resource functions and sustainable management: Proceedings of the International Symposium on Tropical Peatlands/Rieley, J.O.; Page, S.E.; Setiadi, B. (eds.) Badan Pengkajian dan Penerapan Teknologi, Jakarta (Indonesia). Jakarta (Indonesia): BPPT, 2002 p. 119-124 1 ill., 5 ref. Summary (En)

PEATLANDS; TROPICAL FORESTS; THICKNESS; SOIL CHEMICOPHYSICAL PROPERTIES; SOIL ORGANIC MATTER.

P34 SOIL BIOLOGY / BIOLOGI TANAH

0547 AFANDI. Functional relationship between macrofauna and the regeneration of sediment filter among events in soil environment/Afandi (Universitas Lampung, Bandar Lampung (Indonesia). Fakultas Pertanian). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 62-73 2 ill., 4 tables; 19 ref.

CROPS; SOIL MICROORGANISMS; SOIL FAUNA; SEDIMENT; WEED CONTROL; SOIL CONSERVATION.

0548 HARDIWINOTO, S. Diversity, population and biomass of soil macrofauna in several land use systems in Jambi, central part of Sumatra (Indonesia)/Hardiwinoto, S.; Prijono, A. (Universitas Gadjah Mada, Yogyakarta (Indonesia). Fakultas Kehutanan). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 29-34 5 ref.

SOIL MICROORGANISMS; BIOMASS; BIODIVERSITY; LAND USE; JAMBI.

0549 ROHIMAT, I. [Inoculation technique of Mycorrhizae arbuscular on cashew seed]. Teknik inokulasi Mycorrhizae arbuscular pada bibit jambu mente/Rohimat, I. (Balai Penelitian Tanaman Rempah dan Obat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 80-82 1 ill., 3 tables; 7 ref.

ANACARDIUM OCCIDENTALE;
SEEDLINGS; INOCULATION;
VESICULAR ARBUSCULAR MYCORRHIZAE.

0550 SETIADI, Y. Mycorrhiza for diversified tree establishment in Imperata grassland/Setiadi, Y. (Institut Pertanian Bogor (Indonesia)). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 81-92 1 table; 24 ref.

IMPERATA; GRASSLANDS; VESICULAR ARBUSCULAR MYCORRHIZAE; BIODIVERSITY.

0551 SIMANUNGKALIT, R.D.M. Diversity of rhizobia in agricultural lands and the need for inoculation/Simanungkalit, R.D.M. (Balai Penelitian Bioteknologi Tanaman Pangan, Bogor (Indonesia)). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.). Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 74-80 5 tables; 8 ref.

RHIZOBIACEAE; FARM LAND; INOCULATION METHODS; NITROGEN FIXING BACTERIA; BIODIVERSITY; RHIZOBIUM LEGUMINOSARUM; BRADYRHIZOBIUM.

0552 SOEDARJO, M. Mimosine determines the nodulation competitiveness of Rhizobium strains on the roots of *Leucaena leucocephala*. Efektivitas mimosin dalam menentukan tingkat kebersaingan strain Rhizobium dalam pembintilan akar lamtoro /Soedarjo, M. (Balai Penelitian Tanaman Kacang-kacangan dan Umbi-umbian, Malang (Indonesia)). Penelitian Pertanian Tanaman Pangan (Indonesia) ISSN 0216-9959 (2000) v. 19(2) p. 65-70 1 ill., 2 tables; 24 ref. Summaries (En, In)

LEUCAENA; RHIZOBIUM; ALKALOIDS; ROOT NODULATION; GROWTH; TOXICITY.

0553 SUCIATMIH. Arbuscular mycorrhizal fungi at different ecosystems of Gunung Halimun National Park (West Java, Indonesia) /Suciatmih; Kramadibrata, K. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia); Kramadibrata, K.. Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-1754 (2002) v. 6(1) p. 145-149 3 tables; 17 ref. Summary (En)

VESICULAR ARBUSCULAR MYCORRHIZAE; SOIL MICROORGANISMS; ECOSYSTEMS; NATIONAL PARKS; JAVA.

0554 SUDIANA, I M. Characteristic of CMCase of *Bacillus* sp. isolated from soil of Gunung Halimun National Park (West Java, Indonesia). Karakteristik CMCase *Bacillus* sp. yang diisolasi dari tanah Taman Nasional Gunung Halimun/Sudiana, I M.; (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia). Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-1754 (2002) v. 6(1) p. 131-136 6 ill., 15 ref. Summary (In)

BACILLUS; SOIL FAUNA; ISOLATION; TECHNIQUES; NATIONAL PARKS; JAVA.

0555 SUPRAYOGO, D. Alteration of interactions between macrofauna soil structures, and infiltration processes for soil conservation of agriculture lands on slopes/Suprayogo, D. (Universitas Brawijaya, Malang (Indonesia). Fakultas Pertanian). Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 35-52 7 ill., 3 tables; 22 ref.

SOIL MICROORGANISMS; SOIL STRUCTURE; SOIL CONSERVATION; FARMLAND; SLOPING LAND.

P36 SOIL EROSION, CONSERVATION AND RECLAMATION / EROSI, PELESTARIAN DAN PERBAIKAN TANAH

0556 BALAI PENGKAJIAN TEKNOLOGI PERTANIAN KALIMANTAN TIMUR,

SAMARINDA. [Increasing of sloped dry land productivity through integrated farming systems]. Peningkatan produktivitas lahan kering berlereng melalui penerapan pola integrasi usahatani/Balai Pengkajian Teknologi Pertanian Kalimantan Timur, Samarinda (Indonesia). Samarinda (Indonesia): BPTP, 2002 17 p. 8 ill., 18 ref.

FOOD CROPS; GOATS; FEED CROPS; FARMING SYSTEMS; SOIL CONSERVATION; TECHNOLOGY TRANSFER; COMPOSTS.

0557 ILLAHI, A.K. [Analysis of farmers perception and participation on soil and water conservation technique in Cimanuk Hulu Watershed, West Java (Indonesia)]. Analisis persepsi dan partisipasi petani dalam penerapan teknik-teknik konservasi tanah dan air di DAS Cimanuk Hulu, Jawa Barat/Illahi, A.K.; Sinukaban, N.; Agus, F.; Rusli, S.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 110-111

FARMERS; SOIL CONSERVATION; WATER CONSERVATION; WATERSHEDS; JAVA.

0558 PURWANINGSIH, S. Isolation of population and characterization of Rhizobium bacteria in soil from Gunung Halimun National Park, West Java (Indonesia). Isolasi populasi dan karakterisasi bakteri Rhizobium pada tanah asal Taman Nasional Gunung Halimun/Purwaningsih, S. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). Berita Biologi (Indonesia). Edisi Khusus ISSN 0126-1754 (2002) v. 6(1) p. 167-171 2 tables; 8 ref. Summary (En)

RHIZOBIUM; BACTERIA; ISOLATION; NATIONAL PARKS; JAVA.

0559 YUSMANDHANY, E.S. [Measurement of erosion level in Cipamingkis river basins, Bogor (Indonesia)]. Pengukuran tingkat bahaya erosi sub-DAS Cipamingkis, Kabupaten Bogor/Yusmandhany, E.S. (Pusat Penelitian dan Pengembangan Tanah dan Agroklimat, Bogor (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 44-47 5 tables; 9 ref.

JAVA; WATERSHEDS; EROSION; SOIL CONSERVATION.

P40 METEOROLOGY AND CLIMATOLOGY / CUACA DAN IKLIM

0560 NOORDWIJK, M.V. Belowground biodiversity and sustainability of complex agroecosystems/Noordwijk, M.V. (International Centre for Research in Agroforestry (ICRAF) South East Asia Bogor (Indonesia)); Swift, M.J.. Proceedings of Workshop on Management of Agrobiodiversity in Indonesia for Sustainable Land Use and Global Environmental Benefits/Gafur, A.; Susilo, F.X.; Utomo, M.; Noordwijk, M.V. (eds.) Badan Penelitian dan Pengembangan Pertanian, Jakarta (Indonesia); Universitas Lampung, Bandar Lampung (Indonesia). Jakarta (Indonesia): AARD, 1999 p. 8-25 7 ill., 5 tables; 46 ref.

AGROECOSYSTEMS; BIODIVERSITY; SUSTAINABILITY.

Q01 FOOD SCIENCE AND TECHNOLOGY / ILMU-ILMU DAN TEKNOLOGI MAKANAN

0561 SUHARTONO, M.T. [Recombinant protease from local *Bacillus pumilus*]. Protease rekombinan dari *Bacillus pumilus* lokal/Suhartono, M.T.; Koswara, S. (Institut Pertanian Bogor (Indonesia). Pusat Penelitian Bioteknologi). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 32-33

BACILLUS; ENZYME ACTIVITY; INDUSTRIAL SECTOR; SURFACE ACTIVE AGENTS; FOOD TECHNOLOGY; MEDICAL SCIENCES; FEED PROCESSING.

Q02 FOOD PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN MAKANAN

0562 HERMANIANTO, J. [Feasibility study and cooperating guidance with private companies for extrusion industrial sampling project from rice milling byproducts]. Studi kelayakan dan pembinaan kerjasama dengan swasta untuk proyek percontohan industri

ekstrusi dari hasil samping penggilingan padi/Hermanianto, J.; Hariyadi, P.; Nurtama, B. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Sarma, M.; Widowati, S.; Sukarno, L.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 161-162

RICE; MILLING; BYPRODUCTS; PROCESSING; EXTRUSION; PROXIMATE COMPOSITION; FORMULATION; COST ANALYSIS.

0563 HUDAYA, S. [Socialization of banana peel as basic material for dried banana products in Situ Subdistrict, Sumedang (Indonesia)]. Memasyarakatkan pemanfaatan kulit pisang sebagai bahan dasar pembuatan selai kupa di Kelurahan Situ Kecamatan Sumedang Utara Kabupaten Sumedang/Hudaya, S.; Achjar, C.S.; Djali, M.; Rialita, T. Universitas Padjadjaran, Bandung (Indonesia). Bandung (Indonesia): UNPAD, 2001 48 p. 2 tables; 6 ref. Summary (In). Appendices

BANANAS; PEEL; WASTE UTILIZATION; BYPRODUCTS; DRIED PRODUCTS; PROCESSING; INCOME; JAVA.

0564 JENIE, B.S.L. [Developing fish based low salt traditional food products through application of lactic acid bacteria yielding bacteriocins]. Pengembangan produk makanan tradisional rendah garam berbasis ikan melalui aplikasi bakteri asam laktat penghasil bakteriosin/Jenie, B.S.L. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian); Andjaja, N.; Suliantari. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 182-183

RASTRELLIGER; PROCESSING; LACTIC ACID BACTERIA; LACTOCOCCUS LACTIS; SODIUM CHLORIDE; BACTERIOCINS; VACUUM PACKAGING; STORAGE; FLAVOUR; TEXTURE.

0565 LESTARI, P. [Production, purification and characterize of alpha-amylase from local TII12 thermophilic bacteria isolate]. Produksi, purifikasi dan karakterisasi (alfamilase dari isolat lokal bakteri termofilik TII12)/Lestari, P.; Darwis, A.A.; Syamsu, K.; Murdiyato, U.. Forum Pascasarjana (Indonesia) ISSN 0126-1886 (2001) v. 24(2) p. 61-62

AMYLASES; PRODUCTION; PURIFICATION; PROTEIN ISOLATES; THERMOPHILIC MICROORGANISMS.

0566 MAHESWARI, R.R.A. [Isolation identification and characterization of kefir and produced antimicrobial substrates]. Isolasi, identifikasi, dan karakterisasi butir kefir serta substrat antimikrob yang dihasilkan/Maheswari, R.R.A.; Noor, R.R.; Ernawati (Institut Pertanian Bogor (Indonesia). Fakultas Peternakan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 61

KEFIR; ISOLATION; IDENTIFICATION; ANTIMICROBIALS; TOXICITY.

0567 PRAM. [Healthy beverage made from spice crops]. Minuman sehat empon-empon/Pram. Agromedia (Indonesia) (2001) v. 1(1) p.12-13 4 ref

SPICE CROPS; DRUG PLANTS; BEVERAGES; SUPPLY BALANCE; DIVERSIFICATION.

0568 SAKIDJA. [Synthesis of sugar fatty acid polyester from essential oils as ingredients for low calorie food processing]. Sintesis poliester asam lemak gula dari minyak nabati untuk digunakan sebagai ingredien dalam rangka memproduksi makanan rendah kalori/Sakidja; Muchtadi, D.; Muchtadi, T.R. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi

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COCONUT OIL; FATTY ACIDS; BLEACHING; POLYESTERS; LOW CALORIE FOODS; INGREDIENTS.

0569 SATIAWIHARDJA, B. [Processing of cocoa butter substitute from palm oils by enzymatic interesterification process]. Pembuatan mentega kakao tiruan dari minyak sawit dengan proses interesterifikasi enzimatik/Satiawihardja, B.; Hariyadi, P.; Budijanto, S. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 173-174

PALM OILS; DIVERSIFICATION; COCOA BUTTER; ESTERIFICATION; ENZYMATIC ANALYSIS.

0570 SETYANINGSIH, I. [Bioactive compound from microalgae and its application on foods]. Senyawa bioaktif dari mikroalga dan aplikasinya pada bahan pangan/Setyaningsih, I.; Suwandi, R.; Suptijah, P.; Linawati; Ibrahim, B. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 89

CHLORELLA; SCENEDESMUS; EXTRACTS; ANTIMICROBIALS; APPLICATION RATES; FISH FILLETS; STORAGE.

0571 SUDIRMAN, I. [Lactic acid bacteria as bacteriocin producer use for starter bacteria and biopreservative on foods]. Bakteri asam laktat penghasil bakteriosin sebagai bibit

starter unggul dan biopreservatif pada makanan/Sudirman, I.; Siregar, E.A.; Naim, R.; Nurliana (Institut Pertanian Bogor (Indonesia). Fakultas Kedokteran Hewan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 45-46

FOODS; PRESERVATION; LACTO-BACILLUS; BACTERIOCINS; ISOLATION TECHNIQUES.

0572 SUDRAJAT, Y. [Technique of eradication of gypsum coating on *Holothuria scabra* using enzyme papain]. Teknik penghilangan lapisan kapur pada teripang pasir menggunakan enzim papain/Sudrajat, Y. (Pusat Riset Pengolahan Produk dan Sosial Ekonomi Kelautan dan Perikanan, Jakarta (Indonesia)). Buletin Teknik Pertanian (Indonesia) ISSN 0853-8379 (2002) v. 7(2) p. 41-43 1 ill., 2 tables; 5 ref.

SEA CUCUMBERS; ENZYMES; PAPAINE; CALCIUM; CLEANING; BOILING.

0573 SUKARSA, R.D. [Adaptive research of seaweed processing technology in Seribu Islands, North Jakarta (Indonesia)]. Penelitian adaptif teknologi pengolahan dodol rumput laut di Kepulauan Seribu, Jakarta Utara/Sukarsa, R.D.; Ibrahim, B.; Saidi, U.; Aminah, S.; Waryat; Yanis, M.; Astuti, U. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 175-176

EUCHEUMA; FOOD TECHNOLOGY; PROCESSED PLANT PRODUCTS; ORGANOLEPTIC PROPERTIES; CHEMICAL PHYSICAL PROPERTIES; STORAGE; COTTAGE INDUSTRY; JAKARTA.

0574 SUKARTI, T. Effort to increase coconut farmer income by the production of fermented oil. Upaya meningkatkan pendapatan petani kelapa melalui pembuatan minyak kelapa secara fermentasi/Sukarti, T.; Setiasih, I.S.; Risnayadi, H. Universitas Padjadjaran, Bandung (Indonesia). Lembaga Pengabdian Kepada Masyarakat. Bandung (Indonesia): UNPAD, 2001 35 p. 4 ill., 3 tables; 7 ref. Summaries (En, In) Appendices

COCONUT OIL; FERMENTATION; FARMERS; FARM INCOME; EXTENSION ACTIVITIES; ORGANOLEPTIC PROPERTIES.

0575 SURYANI, A. [Condition of production process and purification of microbial cellulose for microfiltration membranes]. Kondisi proses produksi dan pemurnian selulosa mikroba untuk membran mikrofiltrasi/Suryani, A.; Darwis, A.A.; Syamsu, K.; Desiyarni (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 22-23

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Q03 FOOD CONTAMINATION AND TOXICOLOGY / KONTAMINASI DAN TOKSIKOLOGI PANGAN

0576 MURDIATI, T. [Quality of animal products]. Keamanan pangan asal ternak/Murdiati, T. (Balai Penelitian Veteriner, Bogor (Indonesia)). BALITVET Newsletter (Indonesia) ISSN 0215-8949 (2002) v.16(2) p. 9-11

FOODS; ANIMAL PRODUCTS; HYGIENE; CONTAMINATION; TRANSPORT; PROCESSING; QUALITY.

0577 YULINERY, T. [Antimicrobial trials of some *Lactobacillus* and essential oils on *Pseudomonas fluorescens*]. Uji antimikroba

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ESSENTIAL OILS; LACTOBACILLUS; PSEUDOMONAS FLUORESCENS; BACTERICIDES; TESTING; ANTAGONISM; FOODS; CONTAMINATION; ANTIMICROBIALS.

Q04 FOOD COMPOSITION / KOMPOSISI MAKANAN

0578 RAHAYU, W.P. [Study of activity and production of antimicrobial component from *Alpinia galanga* rhizome]. Kajian aktivitas dan produksi komponen antimikrob dari rimpang lengkuas/Rahayu, W.P.; Fardiaz, S. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Darusman, L.K.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 63

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0579 TRIANA, E. [Effect of synthetic sugar concentration on nata de coco]. Pengaruh kadar gula biang pada uji coba pembuatan nata de coco/Triana, E.; Hardiningsih, R. (Pusat Penelitian dan Pengembangan Biologi, Bogor (Indonesia)). Ilmu dan Budaya (Indonesia ISSN 0126-2602 (2002) v. 22(21) p. 54-60 1 table; 8 ref. Summary (En)

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(Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 27-28

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Q52 FEED PROCESSING AND PRESERVATION / PENGOLAHAN DAN PENGAWETAN PAKAN

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0582 SUKARNO. [Production of qualified fish powder from fishery industrial byproducts by enzymatic through plastein reaction]. Produksi tepung ikan bermutu dari hasil samping industri perikanan secara enzimatik melalui reaksi plastein/Sukarno; Sumaryanto, H. (Institut Pertanian Bogor (Indonesia). Fakultas Perikanan dan Ilmu Kelautan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut

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0586 INDASTRI, N.S. [Pectin production from cocoa pods and its utilization as edible coated]. Produksi pektin dari pod kakao dan penggunaannya sebagai penyalut edibel/ Industri, N.S. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/ Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 192-193

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0588 NUGROHO, N.B. Progesterone 11 Alpha-Hydroxylation using *Rhizopus stolonifer* UICC 137 . 11 Alpha Hidroksilasi progesteron oleh *Rhizopus stolonifer* UICC 137/Nugroho, N.B. (Balai Pengkajian Bioteknologi, Serpong Tangerang (Indonesia)). Jurnal Biosains dan Bioteknologi Indonesia (Indonesia) ISSN 1412-0984 (2001) v. 1(1) p. 28-33 7 ill., 8 ref. Summary (En)

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0589 RAHMAN, N. Structure and properties of oriented rubber/Rahman, N.; Isanasari, A.; Anggraeni, R.; Honggokusumo, S.; Iguchi, M. (Instalasi Penelitian Teknologi Karet, Bogor (Indonesia)); Masuko, T.; Yonetake, K.. Proceedings Indonesian Rubber Conference and IRRDB Symposium 2000. Volume II/Azwar, R.; Karyudi; Wibawa, G.; Suryaningtyas, H.; Arizal, A.; Honggokusumo, S.; Suparto, D.; Supriadi, M.; Anwar, C.; Suwana, A.D. (eds.) Balai Penelitian Karet Indonesia, Bogor (Indonesia). Medan (Indonesia): Balai Penelitian Karet, 2001 p. 324-330 7 ill., 3 ref.

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0590 SUDIRMAN, L.M.I. [Purification and determination of antimicrobial compound content from tropical *Lentinus cladopus*]. Purifikasi dan determinasi kandungan senyawa antimikrob dari *Lentinus cladopus* tropik/Sudirman, L.M.I. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian); Adijuwana, H.; Risnayeti. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 87

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0593 BUDIJANTO, S. [Emulsifier production from vegetable oils wastes using enzymatic glycerolysis interesterification technique]. Produksi pengemulsi dari limbah pengolahan minyak goreng dengan teknik interesterifikasi gliserolisis enzimatik/Budijanto, S. (Institut Pertanian Bogor (Indonesia). Lembaga Penelitian); Hariyadi, P.; Ahza, A.B.; Apriyantono, A.. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan,

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0594 HERMANIANTO, J. [Extrusion process for processing and preservation of rice milling byproducts]. Proses ekstrusi untuk pengolahan dan pengawetan hasil samping industri penggilingan padi/Hermanianto, J.; Hariyadi, P.; Nurtama, B. (Institut Pertanian Bogor (Indonesia). Fakultas Teknologi Pertanian); Widowati, S.; Sukarno, L. [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 196-197

RICE; MILLING BYPRODUCTS; PROCESSING; PRESERVATION; EXTRUSION; ORGANOLEPTIC ANALYSIS; CHEMICOPHYSICAL PROPERTIES; QUALITY.

0595 MASSIJAYA, M.Y. [Composite board processing from wood wastes and plastics]. Pengembangan papan komposit dari limbah kayu dan plastik/Massijaya, M.Y.; Tambunan, B.; Hadi, Y.S.; Bakar, E.S.; Marsiah, H. (Institut Pertanian Bogor (Indonesia). Fakultas Kehutanan). [Autonomy of superior agricultural technology: compilation of research results during 1997-2002]. Menuju kemandirian teknologi pertanian unggul: kumpulan hasil penelitian pilihan 1997-2002 edisi 2003/Gunawan, A.W.; Achmadi, S.S.; Wigena, A.H.; Hadiyanto; Rustiadi, E. (eds.) Institut Pertanian Bogor (Indonesia). Bogor (Indonesia): IPB, 2003 p. 181

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0596 RAHAYU, W.P. [Biotechnology application for food flavor production using agricultural wastes]. Penerapan bioteknologi

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0597 RIDLO, R. [Financial and economic prospects from wood wastes utilization wood industry as energy sources by gasification technology with dual fuel operation mode]. Prospek finansial dan ekonomi dari pemanfaatan limbah kayu pada industri penggergajian kayu sebagai sumber energi melalui teknologi gasifikasi/Ridlo, R. (Pusat Pengkajian dan Penerapan Teknologi Pengembangan Sumberdaya Energi, Jakarta (Indonesia)). Jurnal Sains dan Teknologi Indonesia (Indonesia) ISSN 1410-9409 (2001) v. 3(1) p. 18-23 2 ill., 2 tables; 4 ref. Summary (En)

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0600 SHOFIYATI, R. [Utilization of remote sensing technology and geographical information system to detect food scarcity zones: case study in Madura Island (Indonesia)]. Pemanfaatan teknologi penginderaan jauh dan sistem informasi geografi untuk mendeteksi wilayah rawan pangan: studi kasus di daerah Pulau Madura/Shofiyati, R.; Wahyunto (Pusat Penelitian Tanah dan Agroklimat, Bogor (Indonesia). [Proceedings of the Seventh National Congress on Indonesian Soil Science Association: soil resources utilization according to its potential for the environmental continuity] Prosiding Kongres Nasional VII Himpunan Ilmu Tanah Indonesia: pemanfaatan sumberdaya tanah sesuai dengan potensinya menuju keseimbangan lingkungan hidup dalam rangka meningkatkan kesejahteraan rakyat. Buku II/ Djakasutami, H.S.; Sarief, E.S.; Hasan, T.S.; Wibowo, Z.S.; Mihartawijaya, S.; Arifin, M. (eds.). Himpunan Ilmu Tanah Indonesia Komda Jawa Barat, Bandung (Indonesia). Bandung (Indonesia): HITI, 2000. p. 1411-1420. 7 tables, 5 ref. Summaries (En, In).

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