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केंद्रीय रेशम उत्पादन अनुसन्धान एवं प्रशिक्षण संस्थान

CENTRAL SERICULTURAL RESEARCH AND TRAINING INSTITUTE

केंद्रीय रेशम बोर्ड (वस्त्र मंत्रालय, भारत सरकार)

Central Silk Board, (Ministry of Textile, Govt. of India)

श्रीरामपुर, मानंदवाडी रोड, मैसूर - 570008

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- 47. Indian Journal Of Scientific Research
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- 121. Reproduction In Domestic Animals
- 122. Revista Do Instituto De Medicina Tropical De Sao Paulo
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- 125. Scholars Journal Of Agriculture And Veterinary Sciences
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- 132. The 29th Annual Meeting Of The Thai Society For Biotechnology And International Conference, November 23-25, 2017 Swissôtel Le Concorde, Bangkok, Thailand
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- 134. The Faseb Journal
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1. 1. Host Plant Soil Science and Cultivation

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Kar PK, Jena K, Bara M and Sinha AK (2017)

(Central Tasar Research and Training Institute, Nagri, Ranchi, Jharkhand 835303, India)

Metabolic response of tasar silkworm, *Antheraea mylitta* drury to increased tannin content

Sericologia 57(3): 150-157 (English)

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Nirmala MR and Sugun R (2017)

(Karnataka State Sericulture Research and Development Institute, Thalaghattapura, Bengaluru)

Organic farming in sericulture: A ray of hope

Indian Silk 7-8 (55-56 old)(12-2): (English)

405

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(Department of Botany, Bangalore University, Bengaluru 560056, India)

Utilization of am fungi in ex-situ cultivation of micropropagated mulberry plants for enhanced growth and qualitative improvement

Sericologia 57(2): 77-88 (English)

406

Qiu J, Xu LL, Qian Y, Zeng YC, Hou YL, Zhang N and Ding X (2017)

(Key Laboratory of Southwest China Wildlife Resources Conservation, College of Life Science, China West Normal University, Nanchong Sichuan 637009, China)

An investigation on rhizospheric bacterial community and soil physical and chemical properties of different mulberry varieties

Canye Kexue 43(4):568-576 (Chinese)

407

Saima Khursheed (2017)

(Temperate Sericulture Research Institute, Mirgund Sher-e- Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar (India))

Fluctuations in Arbuscular mycorrhizal population with seasons in rhizosphere of mulberry gardens of Kashmir

In: International Conference on Recent Innovations in Science, Agriculture, Engineering and Management University College of Computer Applications Guru Kashi University (UGC Approved) Sardoolgarh Road, Talwandi Sabo, Bathinda, Punjab (India), 20th November 2017 p:407-414 (English)

408

Sacnchez-Salcedo EM, Fca Hernandez JJ and Martinez-Nicolas (2017)

(Avinguda de la Universitat d'Elx, s/n, 03202 Elx, Alacant, Spain)

Phenological growth stages of mulberry tree (*Morus* sp) codification and description according to the BBCH scale

Annals of Applied Biology 171(3):441-450 (Spanish)

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Sudhakara SN, Narayanaswamy TK and Narayanaswamy KC (2017)

(Department of Sericulture, University of Agricultural Sciences, Bangalore-560 065, Karnataka, India)

Role of integrated use of organic manures and inorganic fertilizers on mulberry and its impact on cocoon parameters of silkworm (*Bombyx mori* L)

International Journal of Current Microbiology and Applied Sciences 6(11): 3922-3927 (English)

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Gai YP, Zhao YN, Zhao HN, Yuan CZ, Yuan SS, Li S, Zhu BS and Ji X L (2017)

(State Key Laboratory of Crop Biology, Shandong Agricultural University Tai'an, China)

The latex protein MLX56 from mulberry (*Morus multicaulis*) protects plants against insect pests and pathogens

Frontiers in Plant Science 8:1475 (English)

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(Technical Center of China Tobacco Yunnan Industrial Co, Ltd , Kunming 650231, China)

*Two new prenyl flavonoids from *Morus alba**

Journal of Asian Natural Products Research 20(2):117-121 (English)

412

Guo YQ, Tang GH, Lou LL, Li W, Zhang B, Liu B and Yin S (2017)

(School of Pharmaceutical Sciences, Sun Yat-sen University, Guangzhou, 510006, China)

*Prenylated flavonoids as potent phosphodiesterase-4 inhibitors from *Morus alba*: Isolation, modification, and structure-activity relationship study*

European Journal of Medicinal Chemistry 144:758-766 (English)

413

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(Department of Pharmacognosy, School of Pharmacy, Fudan University, Shanghai 201203, PR China)

*Isoprenylated phenolic compounds with PTP1B inhibition from *Morus alba**

Fitoterapia 122:138-143 (English)

414

Koyu H, Kazan A, Demir S, Haznedaroglu MZ and Ozlem YC (2017)

(Department of Pharmaceutical Botany, Faculty of Pharmacy, Izmir Katip Celebi University, 35620 Cigli-Izmir, Turkey)

*Optimization of microwave assisted extraction of *Morus nigra* L fruits maximizing tyrosinase inhibitory activity with isolation of bioactive constituents*

Food Chemistry 248:183-191 (English)

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Li HX, Jo E, Myung CS, Kim YH and Yang SY (2017)

(College of Pharmacy , Chungnam National University , Daejeon , Korea)

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Natural Product Research 32(16):1963-1966 (English)

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(School of Biology and Technology, Jiangsu University of Science and Technology, Nanxu Road, Zhenjiang, Jiangsu 212018, China)

Characterization and expression patterns of mannose-binding lectin (MMBL) gene in mulberry (*Morus multicaulis*) and its prokaryotic expression in *E.coli*

South African Journal of Botany 113:1-10 (English)

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(Sericultural Research Institute, Zhejiang Academy of Agricultural Sciences, Hangzhou 310021, China)

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Canye Kexue 43(4):662-670 (Chinese)

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(Department of Commerce, Anhui Finance and Trade Vocational College, Hefei 230601, China)

Thermal and antioxidant properties of polysaccharides sequentially extracted from mulberry leaves (*Morus alba* L)

Molecules 22(12):pii: E2271 (English)

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(College of Human Ecology, Chungnam National University, Daejeon, 34134 Korea)

High-throughput detection of antioxidants in mulberry fruit using correlations between high-resolution mass and activity profiles of chromatographic fractions

Plant Methods 13:108 (English)

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Souza GR, Oliveira-Junior RG, Diniz TC, Branco A, Lima-Saraiva SRG, Guimaraes AL, Oliveira AP, Pacheco AGM, Silva MG, Moraes-Filho MO, Costa MP, Pessoa CO and Almeida JRGS (2017)

(Núcleo de Estudos e Pesquisas de Plantas Medicinais, Universidade Federal do Vale do São Francisco - UNIVASF, Av José de Sá Manicoba, s/n, Bairro Centro, CEP 56304-205, Petrolina, PE, Brazil)

Assessment of the antibacterial, cytotoxic and antioxidant activities of *Morus nigra* L (Moraceae)

Brazilian Journal of Biology (Revista Brasileira de Biologia) 78(2):248-254 (English)

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(College of Forestry, Shandong Agricultural University, Taian Shandong 271018, China)

Isolation, identification and degradation performance of an acetamiprid-degrading bacterium

Canye Kexue 43(3):447-452 (Chinese)

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Wang X, Tang T, Zhang JH, Tian JJ, Pang LY and Yao L (2017)

(Soil and Fertilizer Research Institute, Sichuan Academy of Agricultural Sciences, Chengdu 610066, China)

An investigation on nutrient distribution pattern of newly-sprouted branches and leaves of mulberry

Canye Kexue 43(3):382-387 (Chinese)

423

Wang Y, Xu L, Gao W, Niu L, Huang C, Yang P and Hu X (2017)

(Department of Pharmacognosy, School of Pharmacy, Fudan University, Shanghai, People's Republic of China)

Isoprenylated phenolic compounds from *Morus macroua* as potent tyrosinase inhibitors

Planta Medica 84(5):336-343 (English)

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Wu GH, Zhang Y, Tu Y, Xu B and Li L (2017)

(The Sericultural Research Institute, Jiangsu University of Science and Technology, Laboratory of Quality and Safety Risk Assessment for Sericultural Products and Edible Insects, Ministry of Agriculture, Zhenjiang Jiangsu 212018, China)

Secondary speciation analysis of 9 metal elements in mulberry leaf

Canye Kexue 43(4):657-661 (Chinese)

425

Zhao JL, Wang BH, Wang GB, Jiang YR, Yang RS, Shi SL and Qin L (2017)

(College of Bioscience and Biotechnology, Research Institute for Tussah, Shenyang Agricultural University, Liaoning Engineering and Technology Research Center for Insect Resource, Shenyang 110866, China)

Identification of volatile chemical components in leaves and barks of two types of oak trees

Canye Kexue 43(3):459-466 (Chinese)

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Baranwal VK, Negi N and Khurana P (2017)

(Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi 110021, India)

Auxin response factor genes repertoire in mulberry: Identification, and structural, functional and evolutionary analyses

Genes (Basel) 8(9) pii: E202 doi: 103390/genes8090202 (English)

427

Du XL, Cao X, Liu L, Yin CR, Ban YY, Li JL and Cheng JL (2017)

(College of Biotechnology, Jiangsu University of Science and Technology, Zhenjiang Jiangsu 212018, China)

Identification of functional genes related to cortex rooting on mulberry hardwood cuttings using transcriptome-proteome correlation analysis

Canye Kexue 43(3):374-381 (Chinese)

428

Fan W, Guo Q, Liu C, Liu X, Zhang M, Long D, Xiang Z and Zhao A (2017)

(State Key Laboratory of Silkworm Genome Biology, Key Laboratory of Sericultural Biology and Genetic Breeding, Ministry of Agriculture, Southwest University, Chongqing 400716, China)

Two mulberry phytochelatin synthase genes confer zinc/cadmium tolerance and accumulation in transgenic *Arabidopsis* and tobacco

Gene 645:95-104 (English)

429

Guan Q, Yu J, Zhu W, Yang B, Li Y, Zhang L and Tian J (2017)

(College of Biomedical Engineering and Instrument Science, Zhejiang University, Hangzhou 310027, PR China)

RNA-Seq transcriptomic analysis of the *Morus alba* L leaves exposed to high-level UVB with or without dark treatment

Gene 645:60-68 (English)

430

He XM, Sun J, Liang GQ, Qiu CY, Li L, Li CB, Zheng FJ, Sheng JF, Li JM and Liu GM (2017)

(Institute of Agro-products Processing and Technology, Guangxi Academy of Agricultural Sciences, Nanning 530007, China)

Officinal quality evaluation of mulberry branches from 16 mulberry varieties grown in Guangxi sericultural areas

Canye Kexue 43(3):453-458 (Chinese)

431

Li CS, Xuan YH, Wu Y, Liu RL, Xiang ZH and He NJ (2017)

(State Key Laboratory of Silkworm Genome Biology, Southwest University, Chongqing 400715, China)

Chromosome ploidy identification of male-flowering mulberry germplasm resources using sporogenous cells

Canye Kexue 43(3):521-524 (Chinese)

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Li XS, Wang Q, Meng YC, Xiang ZH and He NJ (2017)

(State Key Laboratory of Silkworm Genome Biology, Southwest University, Chongqing 400715, China)

Polyploidy induction and identification of wild germplasm resource *Vun 7 of Morus wittiorum* Hand-Mazz

Canye Kexue 43(3):369-373 (Chinese)

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Liu WW, Meng J, Cui J and Luan YS (2017)

(School of Life Sciences and Biotechnology, Dalian University of Technology, Dalian, China)

Characterization and function of microRNA*s in Plants

Frontiers in Plant Science 8:2200 (English)

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Sarkar T, Mogili T and Sivaprasad V (2017)

(Central Sericultural Research and Training Institute (CSRTI), Mysuru, Karnataka, 570 008, India)

Improvement of abiotic stress adaptive traits in mulberry (*Morus* spp): An update on biotechnological interventions

3 Biotech 7(3):214 (English)

435

Song QX, Yang J, Bao LJ, Su C, Qian YH and Jiao F (2017)

(Institute of Sericulture and Silk, Northwest A and F University, Yangling Shaanxi 712100, China)

Observation on meiosis of pollen mother cells and formation of microspores in autotetraploid mulberry variety Shansang 402-1

Canye Kexue 43(4):546-551 (Chinese)

436

Wang TC, Li RX, Wang YT, Wang W and Gao XW (2017)

(The Sericultural Research Institute, Anhui Academy of Agricultural Sciences, Hefei 230061, China)

Breeding of a new artificial tetraploid mulberry variety Wansangyou 1

Canye Kexue 43(4):552-558 (Chinese)

437

Wang X, Zhang JH, Tang T, Liu HT, Li TQ, Tian JJ, Xiang CH and Yang YL, (2017)

(Soil and Fertilizer Research Institute, Sichuan Academy of Agricultural Sciences, Chengdu 610066, China)

An investigation on twig and leaf trait interrelationship of newly sprouted mulberry twigs

Canye Kexue 43(5):720-728 (Chinese)

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Xuan Y, Li C, Wu Y, Ma B, Liu R, Xiang Z and He N (2017)

(State Key Laboratory of Silkworm Genome Biology, Southwest University, Chongqing, 400715, China)

FISH-based mitotic and meiotic diakinesis karyotypes of *Morus notabilis* reveal a chromosomal fusion-fission cycle between mitotic and meiotic phases

Scientific Reports 7(1):9573 (English)

1. 4. Host Plant Diseases

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Arora V, Ghosh MK, Pal S and Gangopadhyay G (2017)

(Division of Plant Biology, Bose Institute (Main Campus), Kolkata, India)

Allele specific CAPS marker development and characterization of chalcone synthase gene in Indian mulberry (*Morus* spp, family *Moraceae*)

PLoS ONE 12(6):e0179189 (English)

440

Lu QY, Zhang JP, Sun X and Yang L (2017)

(College of Biotechnology, Jiangsu University of Science and Technology, Zhenjiang Jiangsu 212018, China)

Prokaryotic expression, antibody preparation and application of coat protein gene of mulberry crinkle leaf virus

Canye Kexue 43(3):388-394 (Chinese)

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Miao X, Tang CM, Dai FW, Dang XQ, Wang ZJ, Fan XD, Zhou ZY and Wang LL (2017)

(College of Life Sciences, Chongqing Normal University, Chongqing 401331, China)

Sub-classification of three *Ralstonia solanacearum* isolates from mulberry plants

Canye Kexue 43(5):737-743 (Chinese)

442

Pratheesh Kumar PM and Sivaprasad V (2017)

(Central Sericultural Research and Training Institute, Srirampura, Mysore- 570 008, India)

Fluorescent *Pseudomonas* induced systemic resistance to powdery mildew in mulberry (*Morus* spp)

International Journal of Industrial Entomology 35(2), 63-70 (English)

443

Ranjana Das, Das K and Giridhar K (2017)

(Central Muga Eri Research and Training Institute, Lahdoigarh, Assam)

Management of seedling blight in castor plant

Indian Silk 8(old 56)(5-7):18-20 (English)

2.1. Silkworm Rearing Technology

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Lincih Andadari, Minarningsih and Dewi DR (2017)

(Pusat Penelitian dan Pengembangan Hutan, Kementerian Lingkungan Hidup dan Kehutanan,)

The effect of mulberry types on the productivity of cocoon of two *Bombyx mori* L silkworm hybrids

Widyariset 3(2):119-130 (English)

445

Masitta TJ, Tobing MC, Bakti D and Ilyas S (2017)

(University of Sumatera Utara, Faculty of Mathematics and Natural Science, Department of Biology, Medan 20155, North Sumatera, Indonesia)

Growth and development of the silkworm (*Bombyx mori* L) C301 with heat shock treatments

Bulgarian Journal of Agricultural Science 23(6):1025-1032 (English)

446

Sudhakara SN and Narayanaswamy TK (2017)

(Department of Sericulture, University of Agricultural Sciences, Bangalore-560 065, India)

Post-cocoon parameters of silkworm as influenced by feeding of mulberry leaf obtained by application of N through different sources of organic manures and inorganic fertilizers

International Journal of Current Research 9(10):58506-58508 (English)

2.2. Silkworm Physiology and Biochemistry

447

Abbas MN, Kausar S, Sun YX, Tian JW, Zhu BJ and Liu CL (2017)

(College of Life Sciences, Anhui Agricultural University, Hefei 230036, China)

Suppressor of cytokine signaling 6 can enhance epidermal growth factor receptor signaling pathway in *Bombyx mori* (Dazao)

Developmental and Comparative Immunology 81:187-192 (English)

448

Abbas MN, Zhu BJ, Kausar S, Dai LS, Sun YX, Tian JW and Liu CL (2017)

(College of Life Sciences, Anhui Agricultural University, Hefei 230036, China)

Suppressor of cytokine signaling 2-12 regulates antimicrobial peptides and ecdysteroid signaling pathways in *Bombyx mori* (Dazao)

Journal of Insect Physiology 103:47-56 (English)

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Anil Kumar MN, Jagadisha MC and Mahadevaswamy M (2017)

(Laboratory of silkworm Physiology and Biochemistry, Department of Studies in Sericulture Science, University of Mysore, Manasagangotri, Mysuru, Karnataka, India)

Pyridoxine as a nutrient supplement with mulberry leaf and its impact on succinate dehydrogenase activity and economic traits of the silkworm, *Bombyx mori* l

International Journal of Applied Research 3(6):165-169 (English)

450

Chen C, Eldein S, Zhou X, Sun Y, Gao J, Sun Y, Liu C and Wang L (2017)

(College of Life Science, Anhui Agricultural University, Hefei, China)

Immune function of a Rab-related protein by modulating the JAK-STAT signaling pathway in the silkworm, *Bombyx mori*

Archives of Insect Biochemistry and Physiology 97(1)doi: 101002/arch21434 (English)

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Chen J, Li F, Liu Y, Shen W, Du X, He L, Meng Z, Ma X and Wang Y (2017)

(Sericultural Research Institute, Zhejiang Academy of Agricultural Sciences, Hangzhou 310021, China)

Systematic identification of mitochondrial lysine succinylome in silkworm (*Bombyx mori*) midgut during the larval gluttonous stage

Journal of Proteomics 174:61-70 (English)

452

Chen P, Chen P, Li T, Shen Q, Yan DF, Zhang L, Chen X, Li Y and Zhao W (2017)

(College of Biotechnology, Southwest University, Chongqing, 400715, China)

Two dopamine D2-like receptor genes from the silkworm (*Bombyx mori*) and their evolutionary history in metazoan

Scientific Reports 7(1):6848 (English)

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Furutani S, Okuhara D, Hashimoto A, Ihara M, Kai K, Hayashi H, Sattelle DB and Matsuda K (2017)

(Faculty of Agriculture, Department of Applied Biological Chemistry , Kindai University , Nara , Japan)

An L319F mutation in transmembrane region 3 (TM3) selectively reduces sensitivity to okaramine B of the *Bombyx mori* l-glutamate-gated chloride channel

Bioscience, Biotechnology, and Biochemistry 81(10):1861-1867 (English)

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Guo PC, Wang Q, Wang Z, Dong Z, He H and Zhao P (2017)

(State Key Laboratory of Silkworm Genome Biology, Southwest University, 216, Tiansheng Road, Beibei, Chongqing 400716, People's Republic of China)

Biochemical characterization and functional analysis of invertase BmSuc1 from silkworm, *Bombyx mori*

International Journal of Biological Macromolecules 107(Pt B):2334-2341 (English)

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(Division of Life Sciences, Graduate School of Natural Science and Technology, Kanazawa University, Kakuma-machi, Kanazawa, Ishikawa, 920-1192, Japan)

Refinement of ectopic protein expression through the GAL4/UAS system in *Bombyx mori*: application to behavioral and developmental studies

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