

Spices Bibliography—2007 (Part I)

Compiled by: P Azgar Sheriff & C K Sushama Devi

Indian Institute of Spices Research
Calicut-673 012, Kerala, India
E-mail: library@spices.res.in

Spices-General

- Atanda O O, Akpan I & Oluwafemi F 2007 The potential of some spice essential oils in the control of *A. parasiticus* CFR 223 and aflatoxin production. *Food Control* 18 (5): 601–607.
- Bortolin E, Boniglia C, Calicchia A, Alberti A, Fuochi P & Onori S 2007 Irradiated herbs and spices detection: Light induced fading of the photo stimulated luminescence response. *International Journal of Food Science and Technology* 42 (3): 330–335.
- Dimitrijevic S I, Mihajlovski K R, Antonovic D G, Milanovic S M R & Mijin D Z 2007 A study of the synergistic antilisterial effects of a sublethal dose of lactic acid and essential oils from *Thymus vulgaris* L., *Rosmarinus officinalis* L. and *Origanum vulgare* L. *Food Chemistry* 104 (2): 774–782.
- Moller J K S, Catharino R R & Eberlin M N 2007 Electrospray ionization mass spectrometry finger-printing of essential oils: Spices from the Labiate family. *Food Chemistry* 100 (3): 1283–1288.
- Omidbeygi M, Barzegar M, Hamidi Z & Naghdibadi H 2007 Antifungal activity of thyme, summer savory and clove essential oils against *Aspergillus flavus* in liquid medium and tomato paste. *Food Control* 18 (12): 1518–1523.
- Pereira C G & Meireles M A A 2007 Economic analysis of rosemary, fennel and anise essential oils obtained by supercritical fluid extraction. *Flavour and Fragrance Journal* 22 (5): 407–413.
- Perez R A, Navarro T & Lorenzo C de 2007 HS SPME analysis of the volatile compounds from spices as a source of flavour in 'Campo Real' table olive preparations. *Flavour and Fragrance Journal* 22 (4): 265–273.
- Santoro G F, Cardoso M G, Guimaraes L G L, Mendonca L Z & Soares M J 2007 *Trypanosoma cruzi*: Activity of essential oils from *Achillea millefolium* L., *Syzygium aromaticum* L. and *Ocimum basilicum* L. on epimastigotes and trypomastigotes. *Experimental Parasitology* 116 (3): 283–290.
- Schweiggert U, Carle R & Schieber A 2007 Conventional and alternative processes for spice production—a review. *Trends in Food Science and Technology* 18 (5): 260–268.
- Shan B, Cai Y, Brooks J D & Corke H 2007 The *in vitro* antibacterial activity of dietary spice and medicinal herb extracts. *International Journal of Food Microbiology* 117 (1): 112–119.
- Shapiro M, Shepard B M & Lopez R 2007 Effect of spices upon the activity of the gypsy moth (Lepidoptera: Lymantriidae) nucleopolyhedrovirus. *Journal of Entomological Science* 42 (1): 84–91.
- Su L, Yin J J, Charles D, Zhou K Q, Moore J & Yu L L 2007 Total phenolic contents, chelating capacities and radical scavenging properties of black peppercorn, nutmeg, rosehip, cinnamon and oregano leaf. *Food Chemistry* 100 (3): 990–997.
- Spices bibliography
- Yu L & Suzuki H 2007 Effects of tsao ko turmeric and garlic on body fat content and plasma lipid glucose and liver lipid levels in mice (a comparative study of spices). *Food Science and Technology Research* 13 (3): 241–246.
- Zarate N A H, Vieira M C, Helmich M, Chiquito E G, Quevedo L F de & Soares E M 2007 Yield and gross income of taro culture in monocrop system and intercropped with parsley and coriander cultures. *Acta Scientiarum Agronomy* 29 (1): 83–89.
- Basil (*Ocimum basilicum* L.)**
- Chang X, Alderson P G, Hollowood T A, Hewson L & Wright C J 2007 Flavour and aroma of fresh basil are affected by temperature. *Journal of the Science of Food and Agriculture* 87 (7): 1381–1385.
- Garibaldi A, Bertetti D & Gullino M L 2007 Effect of leaf wetness duration and temperature on infection of downy mildew (*Peronospora* sp.) of basil. *Journal of Plant Diseases and Protection* 114 (1): 6–8.
- Gulcin I, Elmastas M & Aboul E H Y 2007 Determination of antioxidant and radical scavenging activity of basil (*Ocimum basilicum* L., Family:Lamiaceae) assayed by different methodologies. *Phytotherapy Research* 21 (4): 354–361.
- Li Z G, Wang X, Chen F & Kim H J 2007 Chemical changes and overexpressed genes in sweet basil (*Ocimum basilicum* L.) upon methyl jasmonate treatment. *Journal of Agricultural and Food Chemistry* 55 (3): 706–713.
- Politeo O, Jukic M & Milos M 2007 Chemical composition and antioxidant capacity of free volatile aglycones from basil (*Ocimum basilicum* L.) compared with its essential oil. *Food Chemistry* 101 (1): 379–385.
- Wang Yong, Wu Y, Wan Yi, Zhang Y & Yao L 2007 Research on optimized cultivation pattern of sweet basil in summer in Shanghai area. *Journal of Shanghai Jiaotong University Agricultural Science* 25 (2): 120–124, 129.
- Black pepper (*Piper nigrum* L.)**
- Nair R R & Gupta S D 2007 *In vitro* plant regeneration from encapsulated somatic embryos of black pepper (*Piper nigrum* L.). *Journal of Plant Sciences* 2 (3): 283–292.
- Parthasarathy V A, Sasikumar B, Nair R R & George K J 2007 Black pepper: botany and horticulture. *Horticultural Reviews* 33: 173–266.
- Siju S, Madhubala R & Bhat A I 2007 Sodium sulphite enhances RNA isolation and sensitivity of *Cucumber mosaic virus* detection by RT-PCR in black pepper. *Journal of Virological Methods* 141 (1): 107–110.
- Cardamom (*Elettaria cardamomum* Maton)**
- Patil D V, Animol Baby & Madhusoodanan K J 2007 Heterotic performance of direct and reciprocal crosses in small cardamom (*Elettaria cardamomum* Maton). *Plant Archives* 7 (1): 133–136.
- Varghese P K 2007 Economics of cardamom cultivation in Kerala. *Indian Journal of Agricultural Economics* 62 (1): 99–112.
- Celery (*Apium graveolens* L.)**
- Biaobrzewski I 2007 Determination of the mass transfer coefficient during hot air drying of celery root. *Journal of Food Engineering* 78 (4): 1388–1396.
- Bounds R S & Hausbeck M K 2007 Comparing disease predictors and fungicide programs for late blight management in celery. *Plant Disease* 91 (5): 532–538.
- Divol F, Vilaine F, Thibivilliers S, Kusiak C, Sauge M H & Dinant S 2007 Involvement of the xyloglucan endotransglycosylase/hydrolases encoded by celery XTH1 and *Arabidopsis* XTH33 in the phloem response to aphids. *Plant, Cell and Environment* 30 (2): 187–201.

Spices bibliography

- Etxeberria E, Gonzalez P & Pozueta Romero J 2007 Mannitol-enhanced, fluid-phase endocytosis in storage parenchyma cells of celery (*Apium graveolens*: Apiaceae) petioles. *American Journal of Botany* 94 (6): 1041–1045.
- Han-Qing Xia, Shen-Huo Lin & Zhang Zhen Xian 2007 Protoplast isolation and plant regeneration from somatic embryogenic cell suspension of celery (*Apium graveolens* L.). *Acta Horticulturae Sinica* 34 (3): 665–670.
- Lin L Z, Lu Sheng Min & Harnly J M 2007 Detection and quantification of glycosylated flavonoid malonates in celery, Chinese celery, and celery seed by LC-DAD-ESI/MS. *Journal of Agricultural and Food Chemistry* 55 (4): 1321–1326.
- Maczka W K & Mironowicz A 2007 Enantioselective hydrolysis of bromo and methoxy substituted 1 phenylethanol acetates using carrot and celeriac enzymatic systems. *Zeitschrift für Naturforschung Section C, Biosciences* 62 (5/6): 397–402.
- Pimkin M, Caretti E, Canutescu A, Yeung J B, Cohn H, Chen Y B, Oleykowski C, Bellacosa A & Yeung A T 2007 Recombinant nucleases CEL I from celery and SP I from spinach for mutation detection. *BMC Biotechnology* 7 : 29 (01 June 2007).
- Rozek E 2007 Reaction of leaf celery (*Apium graveolens* L. var. *secalinum*) to planting density and irrigation. *Vegetable Crops Research Bulletin* 66: 69–77.
- Rupam-Kapoor & Bhatnagar A K 2007 Attenuation of cadmium toxicity in mycorrhizal celery (*Apium graveolens* L.). *World Journal of Microbiology and Biotechnology* 23 (8): 1083–1089.
- Siwek P, Kalisz A & Wojciechowska R 2007 Effect of mulching with film of different colours made from original and recycled polyethylene on the yield of butterhead lettuce and celery. *Folia Horticulturae* 19 (1): 25–35.
- Song G Q, Loskutov A V & Sink K C 2007 Highly efficient *Agrobacterium tumefaciens*-mediated transformation of celery (*Apium graveolens* L.) through somatic embryogenesis. *Plant Cell, Tissue and Organ Culture* 88 (2): 193–200.
- Vina S Z & Chaves A R 2007 Respiratory activity and phenolic compounds in pre-cut celery. *Food Chemistry* 100 (4): 1654–1660.
- Wojciechowska R, Siwek P & Libik A 2007 Effect of mulching with various films on the yield and quality of butterhead lettuce and celery stalks with special reference to nitrate metabolism. *Folia Horticulturae* 19 (1): 37–44.
- Chilli (*Capsicum spp.*)**
- Almela L, Rabe V, Sanchez B, Torrella F, Lopez Perez J P, Gabaldon J A & Guardiola L 2007 Ochratoxin A in red paprika: relationship with the origin of the raw material. *Food Microbiology* 24 (4): 319–327.
- Amador Ramirez M D, Mojarrero Davila F & Velasquez Valle R 2007 Efficacy and economics of weed control for dry Chile pepper. *Crop Protection* 26 (4): 677–682.
- Anderson J A 2007 Additive effects of alcohols and polyols on thermostability of pepper leaf extracts. *Journal of the American Society for Horticultural Science* 132 (1): 67–72.
- Antoniali S, Leal P A M, Magalhaes A M de, Fuziki R T & Sanches J 2007 Physico-chemical characterization of 'Zarco HS' yellow bell pepper for different ripeness stages. *Scientia Agricola* 64 (1): 19–22.
- Arocha Y, Pinol B, Picornell B, Almeida R & Jones P 2007 Broad bean and sweet pepper: two new hosts associated with *Candidatus phytoplasma asteris* (16SrI phytoplasma group) in Cuba. *Plant Pathology* 56 (2): 345.
- Ayme V, Petit Pierre J, Souche S, Palloix A & Moury B 2007 Molecular dissection of the *Potato virus Y* VPg virulence factor reveals complex adaptations to the PVR2 resistance allelic series in pepper. *Journal of General Virology* 88 (5): 1594–1601.

Spices bibliography

- Cai J, Huang B, Chen J & Ji Q 2007 Effects of mineral elements on growth and resistance to *Phytophthora* blight of pepper. *Jiangsu Journal of Agricultural Sciences* 23 (1): 46–49.
- Carrillo Tripp J, Lozoya Gloria E & Rivera Bustamante R F 2007 Symptom remission and specific resistance of pepper plants after infection by *Pepper golden mosaic virus*. *Phytopathology* 97 (1): 51–59.
- Chaowarat S, McGlasson W B, Markham J & Kanlayanarat S 2007 Packaging for minimally processed capsicum fruit (*Capsicum annuum* L.). *Food Australia* 59 (5): 208–214.
- Chaudhary A S, Sachan S K & Singh R L 2007 Effect of spacing, nitrogen and phosphorus on growth and yield of capsicum hybrid. *International Journal of Agricultural Sciences* 3 (1): 12–14.
- Chen X, Cheng Z, Chen J, Lou Q & Geng 2007 Genetic diversity of pepper germplasm with RAPD, ISSR and phenotypic data. *Hong Acta Botanica Boreali Occidentalia Sinica* 27 (4): 662–670.
- Conesa A, Artes H F, Geysen S, Nicolai B & Artes F 2007 High oxygen combined with high carbon dioxide improves microbial and sensory quality of fresh cut peppers. *Postharvest Biology and Technology* 43 (2): 230–237.
- Conesa A, Verlinden B E, Artes Hernandez F, Nicolai B & Artes F 2007 Respiration rates of fresh cut bell peppers under superatmospheric and low oxygen with or without high carbon dioxide. *Postharvest Biology and Technology* 45(1): 81–88.
- Conforti F, Statti G A & Menichini F 2007 Chemical and biological variability of hot pepper fruits (*Capsicum annuum* var. *acuminatum* L.) in relation to maturity stage. *Food Chemistry* 102 (4): 1096–1104.
- Deepa N, Charanjit Kaur, George B, Balraj Singh & Kapoor H C 2007 Antioxidant constituents in some sweet pepper (*Capsicum annuum* L.) genotypes during maturity. *LWT Food Science and Technology* 40 (1): 121–129.
- Diaz Perez J C, Muy Rangel M D & Mascorro A G 2007 Fruit size and stage of ripeness affect postharvest water loss in bell pepper fruit (*Capsicum annuum* L.). *Journal of the Science of Food and Agriculture* 87 (1): 68–73.
- Du J, Fu M, Li M & Xia W 2007 Effects of chlorine dioxide gas on postharvest physiology and storage quality of green bell pepper (*Capsicum frutescens* L. var. *Longum*). *Agricultural Sciences in China* 6 (2): 214–219.
- Elshatshat S, Schreiber L & Schonherr 2007 Some cesium and potassium salts increase the water permeability of astomatous isolated plant cuticles. *Journal of Plant Nutrition and Soil Science* 170 (1): 59–64.
- Erdem G, Yildirim S, Dilmac M & Ece A 2007 The effects of soil tillage on stem development of pepper plant. *Journal of Applied Sciences* 7 (3): 342–348.
- Ezziyyani M, Requena M E, Egea Gilabert C & Candela M E 2007 Biological control of *Phytophthora* root rot of pepper using *Trichoderma harzianum* and *Streptomyces rochei* in combination. *Journal of Phytopathology* 155 (6): 342–349.
- Flores P, Castellar I, Hellin P, Fenoll J & Navarro J 2007 Response of pepper plants to different rates of mineral fertilizers after soil biofumigation and solarization. *Journal of Plant Nutrition* 30 (1–3): 367–379.
- Hamada H, Tomita R, Iwadate Y, Kobayashi K, Munemura I, Takeuchi S, Hikichi Y & Suzuki K 2007 Cooperative effect of two amino acid mutations in the coat protein of *Pepper mild mottle virus* overcomes L3 mediated resistance in *Capsicum* plants. *Virus Genes* 34 (2): 205–214.
- Hojo E T D, Cardoso A D, Hojo R H, Boas E V de B V & Alvarenga M A R 2007 Use cassava starch films and PVC for post harvest conservation of bell pepper. *Ciencia e Agrotecnologia* 31 (1): 184–190.

- Hutton M G & Handley D T 2007 Bell pepper cultivar performance under short, variable growing seasons. *HortTechnology* 17 (1): 136–141.
- Jarret R L, Baldwin E, Perkins B, Bushway R & Guthrie K 2007 Diversity of fruit quality characteristics in *Capsicum frutescens*. *HortScience* 42 (1): 16–19.
- Jeon J, Ahn N, Son B, Kim C, Han C, Kim G, Gal S & Lee S 2007 Efficient transient expression and transformation of PEG mediated gene uptake into mesophyll protoplasts of pepper (*Capsicum annuum* L.). *Plant Cell, Tissue and Organ Culture* 88 (2): 225–232.
- Joshi A & Kothari S L 2007 High copper levels in the medium improves shoot bud differentiation and elongation from the cultured cotyledons of *Capsicum annuum* L. *Plant Cell Tissue and Organ Culture* 88 (2): 127–133.
- Jung J & Lee S 2007 Classification of discoloration types in dried red peppers and related causal factors. *Horticulture, Environment and Biotechnology* 48 (1): 5–8.
- Khah E M, Koukoufikis K, Mavromatis A G, Chachalis D & Goulas C K 2007 The effect of different irrigation techniques on plant performance and seed quality in relation to fruit maturation and storage of different genotypes of pepper (*Capsicum annuum* var. *annuum* L.). *Journal of Food, Agriculture and Environment* 5 (1): 159–163.
- Khan A J, Al Saady N A, Al Mahruki M S, Al Oufi M & Al Subhi A M 2007 Molecular characterization of *Begomovirus* infecting sweet pepper in Oman. *Indian Journal of Biotechnology* 6 (1): 45–51.
- Kim Dong Hwan, Kang Jeong Gu & Kim Byung Dong 2007 Isolation and characterization of the cytoplasmic male sterility associated orf456 gene of chili pepper (*Capsicum annuum* L.). *Plant Molecular Biology* 63 (4): 519–532.
- Koleva Gudeva L R, Spasenoski M & Trajkova F 2007 Somatic embryogenesis in pepper anther culture: the effect of incubation treatments and different media. *Scientia Horticulturae* 111 (2): 114–119.
- Kooli S, Fadhel A, Farhat A & Belghith A 2007 Drying of red pepper in open sun and greenhouse conditions: Mathematical modeling and experimental validation. *Journal of Food Engineering* 79 (3): 1094–1103.
- Kumar S, Singh V, Singh M, Rai S, Kumar S, Rai S K & Rai M 2007 Genetics and distribution of fertility restoration associated RAPD markers in inbreds of pepper (*Capsicum annuum* L.). *Scientia Horticulturae* 111 (3): 197–202.
- Lannes S D, Finger F L, Schuelter A R & Casali V W D 2007 Growth and quality of Brazilian accessions of *Capsicum chinense* fruits. *Scientia Horticulturae* 112 (3): 266–270.
- Lee S, Kim D, Kim N & Hwang B 2007 Functional analysis of the promoter of the pepper pathogen induced gene, CAPIP2, during bacterial infection and abiotic stresses. *Plant Science* 172 (2): 236–245.
- Li Guang Si 2007 The authentication and quality control of pollution free agricultural products based on a producer. *Acta Agriculturae Shanghai* 23 (1): 101–104.
- Li X, Guo S, Bu C & Wang X 2007 Effects of compound substrata of mushroom residue on growth of sweet pepper seedlings. *Acta Agriculturae Shanghai* 23 (1): 48–51.
- Li Z, Long W, Zheng J & Lei J 2007 Isolation and identification of *Phytophthora capsici* in Guangdong Province and measurement of their pathogenicity and physiological race differentiation. *Journal of South China Agricultural University* 28 (1): 50–54.
- Lin W C & Hill B D 2007 Neural network modelling of fruit colour and crop variables to predict harvest dates of greenhouse grown sweet peppers. *Canadian Journal of Plant Science* 87 (1): 137–143.
- Lopez Flores J, Molina Diaz A & Fernandez de Cordova M L 2007 Development of a photochemically induced fluorescence based optosensor for the determination of imidacloprid in peppers and environmental waters. *Talanta* 72 (3): 991–997.

- Margaria P, Ciuffo M, Pacifico D & Turina M 2007 Evidence that the nonstructural protein of *Tomato spotted wilt virus* is the avirulence determinant in the interaction with resistant pepper carrying the TSW gene. *Molecular Plant Microbe Interactions* 20 (5): 547–558.
- Martinez S, Curros A, Bermudez J, Carballo J & Franco I 2007 The composition of Arnoia peppers (*Capsicum annuum* L.) at different stages of maturity. *International Journal of Food Sciences and Nutrition* 58 (2): 150–161.
- Matsunaga H, Yanokuchi Y, Motoki S, Okamoto K & Murayama S 2007 Breeding 'Sweet Pepper Parental Line Nou 1' with genic male sterility. *Horticultural Research Japan* 6 (2): 177–181.
- Meena R, Vidya P & Arora D K 2007 Histochemical changes in leaf of chilli (*Capsicum annuum* L.) affected by *Chilli leaf curl virus*. *Annals of Plant Protection Sciences* 15 (1): 175–181.
- Mesta R K, Kulkarni V R & Rao M S L 2007 Studies on seed borne nature of *Colletotrichum capsici* causing seedling blight and its control through chemicals. *International Journal of Agricultural Sciences* 3 (1): 35–38.
- Mesta R K, Kulkarni V R & Rao M S L 2007 Identification of susceptible stage of fruit and role of biochemical constituents in fruit rot of chilli. *International Journal of Agricultural Sciences* 3 (1): 46–48.
- Nascimento I R do, Valle L A C do, Maluf W R, Goncalves L D, Gomes L A A, Moreto P & Lopes E A das G L 2007 Reaction of hybrids, lines and progenies of sweet pepper the blight caused by *Phytophthora capsici* and to *Pepper yellow mosaic virus* (PepYMV). *Ciencia e Agrotecnologia* 31 (1): 121–128.
- Olasantan F O, Salau A W & Onuh E E 2007 Influence of cassava (*Manihot esculenta*) intercrop on growth and fruit yields of pepper (*Capsicum spp.*) in South Western Nigeria. *Experimental Agriculture* 43 (1): 79–95.
- Pagamas P & Nawata E 2007 Effect of high temperature during the seed development on quality and chemical composition of chili pepper seeds. *Japanese Journal of Tropical Agriculture* 51 (1): 22–29.
- Perry L, Dickau R, Zarrillo S, Holst I, Pearsall D M, Piperno D R, Berman M J, Cooke R G, Rademaker K, Ranere A J, Raymond J S, Sandweiss, D H, Scaramelli F, Tarble K & Zeidler J A 2007 Starch fossils and the domestication and dispersal of chili peppers (*Capsicum spp.* L.) in the Americas. *Science* 315 (5814): 986–988.
- Portis E, Nagy I, Sasvari Z, Stagel A, Barchi L & Lanteri S 2007 The design of *Capsicum spp.* SSR assays via analysis of *in silico* DNA sequence, and their potential utility for genetic mapping. *Plant Science* 172 (3): 640–648.
- Reddy K R & Kakani V G 2007 Screening *Capsicum* species of different origins for high temperature tolerance by *in vitro* pollen germination and pollen tube length. *Scientia Horticulturae* 112 (2): 130–135.
- Sanogo S 2007 Interactive effects of two soilborne pathogens, *Phytophthora capsici* and *Verticillium dahliae*, on chile pepper. *Phytopathology* 97 (1): 37–43.
- Sasikala S, Natarajan, S, Kavitha M & Tamilselvi C 2007 Influence of growing media, irrigation regime, integrated nutrient management and mulching on the performance of sweet pepper (*Capsicum annuum* L. cv. Grossum) hybrid under polyhouse condition. *International Journal of Agricultural Sciences* 3 (1): 56–59.
- Satish R G & Lad D B 2007 Heterosis studies in chilli. *Journal of Maharashtra Agricultural Universities* 32 (1): 68–71.
- Schuster D J 2007 Suppression of *Anthonomus eugenii* (Coleoptera: Curculionidae) pepper fruit infestation with releases of *Catolaccus hunteri* (Hymenoptera: Pteromalidae). *Biocontrol Science and Technology* 17 (3/4): 345–351.
- Senanayake D M J B, Mandal B, Lodha S & Varma A 2007 First report of *Chilli leaf curl virus* affecting chilli in India. *Plant Pathology* 56 (2): 343.

- Shih S L, Tsai W S, Green S K & Singh D 2007 First report of *Tomato leaf curl Joydebpur virus* infecting chilli in India. *Plant Pathology* 56 (2): 341.
- Sogut M A & Elekcioglu I H 2007 Methyl bromide alternatives for controlling *Meloidogyne incognita* in pepper cultivars in the Eastern Mediterranean Region of Turkey. *Turkish Journal of Agriculture and Forestry* 31 (1): 31–40.
- Spehia R S, Thakur B C & Sharma I P 2007 Drip irrigation water requirement of capsicum under sub humid sub temperate region of Himachal Pradesh. *International Journal of Agricultural Sciences* 3 (1): 124–128.
- Tsuda S, Kubota K, Kanda A, Ohki T & Meshi T 2007 Pathogenicity of *Pepper mild mottle virus* is controlled by the RNA silencing suppression activity of its replication protein but not the viral accumulation. *Phytopathology* 97 (4): 412–420.
- Urbaneja A, Sanchez E & Stansly P A 2007 Life history of *Eretmocerus mundus*, a parasitoid of *Bemisia tabaci*, on tomato and sweet pepper. *BioControl* 52 (1): 25–39.
- Wang Y, Zhang B, Zhang Y, Zhang G, Wang L, Xu Y & Wang X 2007 Comparison and analysis of C gene from different pepper accessions. *Acta Horticulturae Sinica* 34 (1): 143–146.
- Weber E, Berger C, Bonas U & Koebnik R 2007 Refinement of the *Xanthomonas campestris* pv. *vesicatoria* hrPD and hrPE operon structure. *Molecular Plant Microbe Interactions* 20 (5): 559–567.
- Wu Ln, Hu K & Wu Z 2007 Plant regeneration of *Capsicum annuum* cultured in vitro. *Journal of South China Agricultural University* 28 (1): 73–76.
- Zhang Y, Tang Y, Ye Z, Zhang C & Li H 2007 Factors affecting in vitro shoot elongation of pepper. *Journal of Wuhan Botanical Research* 25 (2): 185–191.
- Zou X, Ma YanQing, Liu R, Zhang Z, Cheng W, Dai XiongZe, Li X & Zhou Q 2007 Combining ability analyses of net photosynthesis rate in pepper (*Capsicum annuum* L.). *Agricultural Sciences in China* 6 (2): 159–166.
- Zou X, Zhang Z, Chen W, Dai X, Ma Y & Li X 2007 Genetic analyses of fruit characters in pepper (*Capsicum annuum* L.). *Acta Botanica Boreali Occidentalis Sinica* 27 (3): 497–501.
- Clove (*Syzygium aromaticum* L.)**
- Chaieb K, Hajlaoui H, Zmantar T, Kahla-Nakbi A B, Rouabchia M, Mahdouani K & Bakhrouf A 2007 The chemical composition and biological activity of clove essential oil, *Eugenia caryophyllata* (*Syzygium aromaticum* L. Myrtaceae): a short review. *Phytotherapy -Research* 21 (6): 501–506.
- Guan W, Li S, Yan R, Tang S & Quan C 2007 Comparison of essential oils of clove buds extracted with supercritical carbon dioxide and other three traditional extraction methods. *Food Chemistry* 101 (4): 1558–1564.
- Luengsunthornchai S & Chantarapsnont W 2007 The inhibitory effects of commercial clove oil (*Syzygium aromaticum* L. Merr. et Perry) on *Escherichia coli*. Proceedings of the 45th Kasetsart University Annual Conference, Kasetsart, 30 January–2 February 2007, Subject: Agricultural Extension and Home Economics 719–725.
- Oyedunmade E E A & Chukwu L O 2007 Comparative nematicidal effectiveness of carbofuran and aqueous extracts from the leaves of neem, rattle weed, bitter leaf and clove. *Crop Research, Hisar* 33 (1/3): 204–209.
- Tantakom S, Jinda K & Kawprasit J 2007 Insecticidal efficacy of clove extract on diamondback moth larvae. Proceedings of the 45th Kasetsart University Annual Conference, Bangkok, Thailand, 30 January–2 February, 2007, Subject: Plants 464–469.
- Coriander (*Coriandrum sativum* L.)**
- Bomme U, Blum H & Rinder R 2007 Spring cultivation of coriander (*Coriandrum sativum* L.) for leaf use results from several years of variety testing. *Zeitschrift fur Arznei und Gewurzpflanzen* 12 (1): 24–29.

- Fatima B, Ali S A, Seema I, Muhammad A & Mahmood ul H F 2007 Effect of micronutrients supplement on growth of *Nigella sativa*, *Coriandrum sativum* and *Ptychotis ajowan*. *Trends in Applied Sciences Research* 2 (5): 451–455.
- Lenardis A E, Baren C van, Leo L P di & Ghersa C M 2007 Plant soil interactions in wheat and coriander crops driving arthropod assemblies through volatile compounds. *European Journal of Agronomy* 26 (4): 410–417.
- Masada K, Hosni K, Taarit, M B, Chahed T, Kchouk, M E & Marzouk B 2007 Changes on essential oil composition of coriander (*Coriandrum sativum* L.) fruits during three stages of maturity. *Food Chemistry* 102 (4): 1131–1134.
- Oliveira A P de, Melo P C T de, Wanderley Junior L J da G, Alves A U, Moura M F de & Oliveira A N P de 2007 Performance of coriander genotypes in the municipality of Areia. *Horticultura Brasileira* 25 (2): 252–255.
- Zarate N A H, Vieira M do C, Helmich M, Chiquito E G, Quevedo L F de & Soares E M 2007 Yield and gross income of taro culture in monocrop system and intercropped with parsley and coriander cultures. *Acta Scientiarum Agronomy* 29 (1): 83–89.
- Cumin (*Cuminum cyminum* L.)**
- Chen X & Gao J 2007 Callus culture induction and secondary culture of the cotyledons of *Cuminum cyminum* L. *Xinjiang Agricultural Sciences* 44 (3): 344–348.
- Ebrahimie E, Naghavi M R, Hosseinzade A, Behamta M R, Mohammadi D M, Sarrafi A & Spangenberg G 2007 Induction and comparison of different *in vitro* morphogenesis pathways using embryo of cumin (*Cuminum cyminum* L.) as a model material. *Plant Cell, Tissue and Organ Culture* 90 (3): 293–311.
- Jalali H M, Zekavat B & Sereshti H 2007 Use of gas chromatography mass spectrometry combined with resolution methods to characterize the essential oil components of Iranian cumin and caraway. *Journal of Chromatography A* 1143 (1/2): 215–226.
- Maharshi R P 2007 Management of cumin wilt through integration of *Trichoderma* spp. and carbendazim. *Indian Journal of Horticulture* 64 (2): 234–236.
- Sachin B S, Sharma S C, Sethi S, Tasduq S A, Tikoo M K, Tikoo A K, Satti N K, Gupta B D, Suri K A, Johri R K & Qazi G 2007 Herbal modulation of drug bioavailability: enhancement of rifampicin levels in plasma by herbal products and a flavonoid glycoside derived from *Cuminum cyminum*. *Phytotherapy Research* 21 (2): 157–163.
- Zarrinzadeh J, Mirza M & Alyari H 2007 The effect of plantation date and irrigation on essential oil content and composition of *Cuminum cyminum* L. *Iranian Journal of Medicinal and Aromatic Plants* 23 (1): 134–140.
- Fennel (*Foeniculum vulgare* Miller)**
- Anamika P & Payal L 2007 Phenolic estimation in *Foeniculum vulgare* infected with *Ramularia* blight. *Annals of Plant Protection Sciences* 15 (2): 396–398.
- Ashnagar A, Naseri N G & Davarian S K 2007 Isolation and identification of the major chemical compounds found in fennel seeds (*Foeniculum vulgare*) grown in Mamesani (Fars Province), Iran. *International Journal of Chemical Sciences* 5 (2): 537–541.
- Cesare L F di, Viscardi D, Migliori C, Campanelli G & Ferrari V 2007 Study of the influence of mycorrhization and organic cultivation on the essential oil and chemical parameters of Italian fennel. *Ingredienti Alimentari* 6 (2): 15–21.
- Giosafatto C V L, Mariniello L & Ring S 2007 Extraction and characterization of *Foeniculum vulgare* pectins and their use for preparing biopolymer films in the presence of phaseolin protein. *Journal of Agricultural and Food Chemistry* 55 (4): 1237–1240.
- Jain N K, Jat N L & Houdhary G R 2007 Response of fennel (*Foeniculum vulgare*) to inorganic nitrogen, farmyard manure and *Azospirillum*. *Indian Journal of Agricultural Sciences* 77 (6): 376–378.

Kosar M, Ozek T, Kurkcuoglu M & Baser K H C 2007 Comparison of microwave assisted hydrodistillation and hydrodistillation methods for the fruit essential oils of *Foeniculum vulgare*. Journal of Essential Oil Research 19 (5): 426–429.

Menaria B L, Maliwal P L 2007 Quality of fennel as influenced by plant density, fertilization and plant growth regulators. Indian Journal of Plant Physiology 12 (1): 57–62.

Mojab F, Javidnia K, Nickavar B & Yazdani D 2007 GC-MS analysis of the essential oils of roots and leaves of *Foeniculum vulgare* Mill. Journal of Essential Oil Bearing Plants 10 (1): 36–40.

Salehi P, Asghari B & Mohammadi F 2007 Hydrodistillation headspace solvent microextraction: an efficient method for analysis of the essential oil from the seeds of *Foeniculum vulgare* Mill. Chromatographia 65 (1/2): 119–122.

Fenugreek (*Trigonella foenum-graecum* L.)

Aabgeena Naeem, Ejaz Ahmad, Ashraf M T & Khan R H 2007 Purification and characterization of mannose/glucose specific lectin from seeds of *Trigonella foenumgraeicum*. Biochemistry Moscow 72 (1): 44–52.

Ashok Kumar & Singh R 2007 Response of fenugreek (*Trigonella foenum-graecum*) to different phosphorus and cutting management practices. Indian Journal of Agricultural Sciences 77 (3): 154–157.

Bhalerao R V, Bankar G J, Damodhar V P, Pawar S S & Dalavi D C 2007 Effect of foliar sprays of growth regulators on growth and seed yield of methi (*Trigonella foenum-graecum* L.) cv. Pusa early bunching. International Journal of Agricultural Sciences 3 (2): 167–170.

Chhibba I M, Nayyar V K & Kanwar J S 2007 Influence of mode and source of applied iron on fenugreek (*Trigonella corniculata* L.) in a *Typic Ustochrept* in Punjab India. International Journal of Agriculture and Biology 9 (2): 254–256.

Frias J, Martinez V C, Gulewicz P, PerezRomero A, Pilarski R, Gulewicz K & Vidal V C 2007 Biogenic amines and HL60 citotoxicity of alfalfa and fenugreek sprouts. Food Chemistry 105 (3): 959–967.

Kaufmann B, Rudaz S, Cherkaoui S, Veuthey J L & Christen P 2007 Influence of plant matrix on microwave-assisted extraction process. The case of diosgenin extracted from fenugreek (*Trigonella foenumgraeicum* L.). Phytochemical Analysis 18 (1): 70–76.

Meena H R, Mahorkar V K, Jadhao B J & Nandre D R 2007 Effect of micronutrients and humic acid on growth and leaf yield of fenugreek. Plant Archives 7 (1): 321–322.

Pariari A, Imam M N, Das R, Choudhary S M & Chatterjee R 2007 Growth and yield of fenugreek (*Trigonella foenum-graecum* Linn.) as influenced by growth regulators. Journal of Interacademicia 11 (1): 24–27.

Rejil M C & Madhu M 2007 *In vitro* evaluation of feed supplemented with fenugreek seeds (Methi). Indian Journal of Dairy Science 60 (2): 107–113.

Thaakur S R, Saraswathy G R, Maheswari E, Kumar N S, Hazarathiah T, Sowmya K, Reddy P D & Kumar B R 2007 Inhibition of CCl_4 -induced liver fibrosis by *Trigonella foenum-graecum* Linn. Natural Product Radiance 6 (1): 11–17.

Garcinia (Garcinia spp.)

Adeyeye E I, Asaolu S S & Aluko A O 2007 Amino acid composition of two masticatory nuts (*Cola acuminata* and *Garcinia kola*) and a snack nut (*Anacardium occidentale*). International Journal of Food Sciences and Nutrition 58 (4): 241–249.

Chattopadhyay S K & Satyanshu Kumar 2007 A rapid liquid chromatography tandem mass spectrometry method for quantification of a biologically active molecule camboginol in the extract of *Garcinia cambogia*. Biomedical Chromatography 21 (1): 55–66.

Daramola B & Adegoke G O 2007 Nutritional composition and antimicrobial activity of fractionated extracts of *Garcinia kola* Heckel. Pakistan Journal of Scientific and Industrial Research 50 (2): 104–108.

Guedje N M, Zuidema P A, During H, Foahom B & Lejoly J 2007 Tree bark as a non timber forest product: the effect of bark collection on population structure and dynamics of *Garcinia lucida* Vesque. Forest Ecology and Management 240 (1/3): 1–12.

Han Q, Qiao C, Song J, Yang N, Cao X, Peng Y, Yang Dn, Chen S & Xu H 2007 Cytotoxic prenylated phenolic compounds from the twig bark of *Garcinia xanthochymus*. Chemistry and Biodiversity 4 (5): 940–946.

Hartati S, Wang H, Kardono L B S, Kosela S & Qin G 2007 Chemical constituents of *Garcinia maingayi*. Chinese Journal of Natural Medicines 5 (4): 272–276.

Hutadilok T N, Kongkachauay S & Mahabusarakam W 2007 Inhibition of human lipoprotein oxidation by morelloflavone and camboginol from *Garcinia dulcis*. Natural Product Research 21 (7): 655–662.

Maisuthisakul P, Suttajit M & Pongsawatmanit R 2007 Assessment of phenolic content and free radical scavenging capacity of some Thai indigenous plants. Food Chemistry 100 (4): 1409–1418.

Noichinda S, Bodhipadma K, Singkhornart S & Ketsa S 2007 Changes in pectic substances and cell wall hydrolase enzymes of mangosteen (*Garcinia mangostana*) fruit during storage. New Zealand Journal of Crop and Horticultural Science 35 (2): 229–233.

Olabanji S O, Adesina S K, Ceccato D, Buoso M C & Moschini G 2007 PIXE analysis of some medicinal plants used in cleaning teeth in southwestern Nigeria. Biological Trace Element Research 116 (2): 171–184.

Pechkeo S, Sdoodee S & Nilnond C 2007 Changes of plant nutrients concentration in soils and trees of mangosteen (*Garcinia mangostana* L.) during the fruit development. Kasetsart Journal Natural Sciences 41 (1): 61–71.

Reutrakul V, Anantachoke N, Pohmakotr M, Jaipetch T, Sophasan S, Yoosook C, Kasisit J, Napaswat C, Santisuk T & Tuchinda P 2007 Cytotoxic and anti HIV 1 caged xanthones from the resin and fruits of *Garcinia hanburyi*. Planta Medica 73 (1): 33–40.

Song Jing Zheng, Yip Yue Keung, Han Quan Bin, Qiao Chun Feng & Xu Hong Xi 2007 Rapid determination of polyprenylated xanthones in gamboge resin of *Garcinia hanburyi* by HPLC. Journal of Separation Science 30 (3): 304–309.

Teerachaichayut S, Kil Kwon Young, Terdwongworakul A, Thanapase W & Nakanishi Y 2007 Non destructive prediction of translucent flesh disorder in intact mangosteen by short wavelength near infrared spectroscopy. Postharvest Biology and Technology 43 (2): 202–206.

Walker E B 2007 HPLC analysis of selected xanthones in mangosteen fruit. Journal of Separation Science 30 (9): 1229–1234.

Yu Li Mei, Zhao Mou Ming, Yang Bao, Zhao Qiang Zhong & Jiang Yue Ming 2007 Phenolics from hull of *Garcinia mangostana* fruit and their antioxidant activities. Food Chemistry 104 (1): 176–181.

Garlic (*Allium sativum* L.)

Ahmed H G, Magaji M D, Yakutu A I, Aliyu L & Singh A 2007 Response of garlic (*Allium sativum* L.) to irrigation interval and clove size in semi arid Nigeria. Journal of Plant Sciences 2 (2): 202–208.

Ahn Yul Kyun, Choi Gyeong Lee, Choi Hak Soon, Yoon Moon Kyoung & Suh Hyo Duk 2007 Effect of planting depth and angle of non cloved bulb garlics on the garlic growth and yield. Korean Journal of Horticultural Science and Technology 25 (2): 82–88.

Alam S S, Musharaf A, Shah A, Amjad U, Ahmad M I & Naveedullah 2007 Variation in garlic varieties for reaction to natural infection of *Puccinia porri* Wint and *Alternaria porri* Clif at Swabi NWFP. Sarhad Journal of Agriculture 23 (1): 149–152.

Ayaz E & Alpsoy H C 2007 Garlic (*Allium sativum*) and traditional medicine. Turkiye Parazitoloji Dergisi 31 (2): 145–149.

- Botelho R V 2007 Effect of the garlic extract on dormancy breaking of apple trees. *Revista Brasileira de Fruticultura* 29 (2): 403–405.
- Botelho R V & Muller M M L 2007 Garlic extract as alternative on bud dormant break of apple trees cv. Fuji Kiku. *Revista Brasileira de Fruticultura* 29 (1): 37–41.
- Botrel D A, Soares N de F F, Geraldine R M, Pereira R M & Fontes E A F 2007 Quality of minimally processed garlic (*Allium sativum*) coated with antimicrobial edible coating. *Ciencia e Tecnologia de Alimentos* 27 (1): 32–38.
- Chauhan C P S, Shisodia P K, Minhas P S & Chauhan R S 2007 Response of onion (*Allium cepa*) and garlic (*Allium sativum*) to irrigation with different salinity waters with or without mitigating salinity stress at seedling establishment stage. *Indian Journal of Agricultural Sciences* 77 (8): 483–485.
- Davis R M, Hao J J, Romberg M K, Nunez J J & Smith R F 2007 Efficacy of germination stimulants of sclerotia of *Sclerotium cepivorum* for management of white rot of garlic. *Plant Disease* 91 (2): 204–208.
- Dugan F M, Hellier B C & Lupien S L 2007 Pathogenic fungi in garlic seed cloves from the United States and China and efficacy of fungicides against pathogens in garlic germplasm in Washington State. *Journal of Phytopathology* 155 (7/8): 437–445.
- Fukao H, Yoshida H, Tazawa Y & Hada T 2007 Antithrombotic effects of odorless garlic powder both *in vitro* and *in vivo*. *Bioscience Biotechnology and Biochemistry* 71 (1): 84–90.
- Galduroz J C F, Antunes H K & Santos R F 2007 Gender and age related variations in blood viscosity in normal volunteers: a study of the effects of extract of *Allium sativum* and *Ginkgo biloba*. *Phytomedicine* 14 (7/8): 447–451.
- Gieck S L, Pappu H R, Hamm P B & David N L 2007 First report of *Onion yellow dwarf virus*, *Leek yellow stripe virus* and *Garlic common latent virus* in garlic in Oregon. *Plant Disease* 91 (4): 461.
- Gowda M C, Baby Madineni & Gowda A P M 2007 Evaluation of garlic (*Allium sativum* L.) genotypes for growth, yield and quality. *Crop Research Hisar* 33 (1/3): 141–143.
- Gowda M C, Vijayakumar M, Gowda A P M 2007 Influence of integrated nutrient management on growth, yield and quality of garlic (*Allium sativum* L.) cv. G 282. *Crop Research, Hisar* 33 (1/3): 144–147.
- Grela E R & Klebaniuk R 2007 Chemical composition of garlic preparation and its utilization in piglet diets. *Medycyna Weterynaryjna* 63 (7): 792–795.
- Gupta R P 2007 Garlic cultivation technology. *Indian Journal of Areca Nut Spices and Medicinal Plants* 9 (1): 1–9.
- Hosseinpur A R & Sinegani A A S 2007 Soil potassium release characteristics and the correlation of its parameters with garlic plant indices. *Communications in Soil Science and Plant Analysis* 38 (1/2): 107–118.
- Huchette O, Arnault I, Auger J, Bellamy C, Trueman L, Thomas B, Ochatt S J & Kahane R 2007 Genotype nitrogen fertility and sulphur availability interact to affect flavour in garlic (*Allium sativum* L.). *Journal of Horticultural Science and Biotechnology* 82 (1): 79–88.
- Islam M J, Hossain A K M M, Khanam F, Majumder U K, Rahman M M & Rahman M S 2007 Effect of mulching and fertilization on growth and yield of garlic at Dinajpur in Bangladesh. *Asian Journal of Plant Sciences* 6 (1): 98–101.
- Jabar M A & Al Mossawi A 2007 Susceptibility of some multiple resistant bacteria to garlic extract. *African Journal of Biotechnology* 6 (6): 771–776.
- Kamenetsky R 2007 Garlic: botany and horticulture. *Horticultural Reviews* 33: 123–172.
- Klukackova J, Navratil M & Duchoslav M 2007 Natural infection of garlic (*Allium sativum* L.) by viruses in the Czech Republic. *Journal of Plant Diseases and Protection* 114 (3): 97–100.

- Latha S, Sathyaranayana N & Reddy O R 2007 Interception of *Embellisia allii* in garlic bulbs imported from China. *Indian Phytopathology* 60 (1): 126–127.
- Lee E, Cho J, Kim J & Lee S 2007 Green pigment in crushed garlic (*Allium sativum* L.) cloves: purification and partial characterization. *Food Chemistry* 101 (4): 1677–1686.
- Li Y, Xu S 2007 Preparation of garlic powder with high allicin content. *Agricultural Sciences in China* 6 (7): 890–898.
- Lunello P, Rienzo J di & Conci V C 2007 Yield loss in garlic caused by *Leek yellow stripe virus* Argentinean isolate. *Plant Disease* 91 (2): 153–158.
- Mirzaei R, Liaghati H & Damghani A M 2007 Evaluating yield quality and quantity of garlic as affected by different farming systems and garlic clones. *Pakistan Journal of Biological Sciences* 10 (13): 2219–2224.
- Nasiri M, Pirdashti H & Tari D B 2007 Investigation on the growth yield and yield components of rice varieties in rotation with garlic Faba bean lettuce pea and fallow in north of Iran. *Pakistan Journal of Biological Sciences* 10 (16): 2688–2693.
- Oparaekwe A M, Dike M C, Amatobi C I 2007 Effect of application of different concentrations and appropriate schedules of aqueous garlic (*Allium sativum* L.) bulb extracts against *Maruca vitrata* and *Clavigralla tomentosicollis* on cowpea *Vigna unguiculata* (L.) Walp. *Archives of Phytopathology and Plant Protection* 40 (4): 246–251.
- Ovesna J, Kucera L, Kralova J, Leisova L, Stavelikova H & Velisek J 2007 Genetic diversity among garlic clones as revealed by AFLP phenotypic escriptors and S amino acids level. *Vegetable Crops Research Bulletin* 66: 105–116.
- Perez M B, Aveldano M I & Croci C A 2007 Growth inhibition by gamma rays affects lipids and fatty acids in garlic sprouts during storage. *Postharvest Biology and Technology* 44 (2): 122–130.
- Pourjafar M, Badiei K, Ghasemi H & Ahmadi E 2007 The therapeutic effects of oral administration of garlic extract and tablet on experimentally lead acetate poisoning in mouse. *Journal of the Faculty of Veterinary Medicine University of Tehran* 61 (4): 351–355.
- Rejano L, Sanchez A H, Montano A, Casado F J & Castro A de 2007 Kinetics of heat penetration and textural changes in garlic during blanching. *Journal of Food Engineering* 78 (2): 465–471.
- Rekowska E & Skupien K 2007 Influence of flat covers and sowing density on yield and chemical composition of garlic cultivated for bundle harvest. *Vegetable Crops Research Bulletin* 66: 17–24.
- Rosales Longo F U & Molina Monterroso L G 2007 Genetic diversity of the garlic (*Allium sativum* L.) grown in Guatemala revealed by DNA markers. *Agronomia Mesoamericana* 18 (1): 85–92.
- Rotem N, Shemesh E, Peretz Y, Akad F, Edelbaum O, Rabinowitch H D, Sela I & Kamenetsky R 2007 Reproductive development and phenotypic differences in garlic are associated with expression and splicing of LEAFY homologue gaLFY. *Journal of Experimental Botany* 58 (5): 1133–1141.
- Sahu S, Das B K, Mishra B K, Pradhan J & Sarangi N 2007 Effect of *Allium sativum* on the immunity and survival of *Labeo rohita* infected with *Aeromonas hydrophila*. *Journal of Applied Ichthyology* 23 (1): 80–86.
- Sanwal G G & Anurag Payasi 2007 Garlic extract plus sodium metabisulphite enhances shelf life of ripe banana fruit. *International Journal of Food Science and Technology* 42 (3): 303–311.
- Shimon L J W, Rabinkov A, Shin I, Miron T, Mirelman D, Wilchek M & Frolow F 2007 Two structures of alliinase from *Allium sativum* L.: Apo form and ternary complex with aminoacrylate reaction intermediate covalently bound to the PLP cofactor. *Journal of Molecular Biology* 366 (2): 611–625.

- Shukla & Neetu K 2007 Cancer chemoprevention with garlic and its constituents. *Cancer Letters* 247 (2): 167–181.
- Stankovic S, Levic J, Petrovic T, Logrieco A & Moretti A 2007 Pathogenicity and mycotoxin production by *Fusarium proliferatum* isolated from onion and garlic in Serbia. *European Journal of Plant Pathology* 118 (2): 165–172.
- Tariq M, Khokhar K M & Muhammad S 2007 Integrated weed management practices in garlic crop in Pakistan. *Crop Protection* 26 (7): 1031–1035.
- Tawfik M & Kadry R M 2007 Influence of garlic and panax ginseng supplementation on male rabbits exposed to aflatoxin B₁. *Veterinary Medical Journal Giza* 55 (3): 731–744.
- Tong Fei, Cheng ZhiHui, Jin Rui & Zhou YanLi 2007 Allelopathy of methanol dissolved ingredient from garlic plant aqueous extracts. *Journal of Northwest A and F University Natural Science Edition* 35 (6): 119–124.
- Tunku P, Lagoke S T O & Ishaya D B 2007 Evaluation of herbicides for weed control in irrigated garlic (*Allium sativum* L.) at Samaru Nigeria. *Crop Protection* 26 (4): 642–646.
- Vieira R L & Nodari R O 2007 Genetic diversity of garlic revealed by RAPD markers. *Ciencia Rural* 37 (1): 51–57.
- Yadav R S, Sammauria R & Rathore M S 2007 Effect of nitrogen and potassium on the growth yield and quality of garlic (*Allium sativum*) in light textured soils of Rajasthan. *Indian Journal of Agricultural Sciences* 77 (3): 168–169.
- Yang Y, Wu Z, Li C, Long Y & Zeng X 2007 Vitrification of the garlic plantlet under exogenous H₂O₂ stress *in vitro*. *Acta Botanica Boreali Occidentalia Sinica* 27(8): 1637–1642.
- Zewide T, Fininsa C & Sakuja P K 2007 Management of white rot (*Sclerotium cepivorum*) of garlic using fungicides in Ethiopia. *Crop Protection* 26 (6): 856–866.
- Ginger (*Zingiber officinale* Rosc.)**
- Afshari A T, Shirpoor A, Farshid A, Saadatian R, Rasmi Y, Saboory E, Ilkhanizadeh B & Allameh A 2007 The effect of ginger on diabetic nephropathy, plasma antioxidant capacity and lipid peroxidation in rats. *Food Chemistry* 101 (1): 148–153.
- Ajith T A, Nivitha V & Usha S 2007 *Zingiber officinale* Roscoe alone and in combination with alpha tocopherol protect the kidney against cisplatin induced acute renal failure. *Food and Chemical Toxicology* 45 (6): 921–927.
- Chen C, Liu T, Liu Y, Tseng We, Liu R H, Lu F, Lin Y, Kuo & Chen C 2007 6 Shogaol (alkanone from ginger) induces apoptotic cell death of human hepatoma p53 mutant Mahlavu subline via an oxidative stress mediated caspase dependent mechanism. *Journal of Agricultural and Food Chemistry* 55 (3): 948–954.
- Chhata L K, Ram J & Thakore B B L 2007 Effect of meteorological parameters on severity of storage rot of ginger. *Journal of Agrometeorology* 9 (1): 125–127.
- Guo Y, Bai J H & Zhang Z 2007 Plant regeneration from embryogenic suspension derived protoplasts of ginger (*Zingiber officinale* Rosc.). *Plant Cell, Tissue and Organ Culture* 89 (2/3): 151–157.
- Halder N K, Shill N C, Siddiqi M A, Gomes R & Sarkar J 2007 Response of ginger to zinc and boron fertilization. *Asian Journal of Plant Sciences* 6 (2): 394–398.
- Hore J K, Bandyopadhyay A & Ghosh D K 2007 Prospects of intercropping with coconut in West Bengal. *Indian Coconut Journal* 38 (4): 2–4.
- Hou Y, Wu S & Shen Y 2007 Studies on extraction of ginger polysaccharide. *Acta Agriculturae Universitatis Jiangxiensis* 29 (3): 466–469.
- Huang J, Cheng L L & Zhang Z 2007 Molecular cloning and characterization of violaxanthin de-epoxidase (VDE) in *Zingiber officinale*. *Plant Science* 172 (2): 228–235.

- Huang Yan Nan, Liu Jun, Zhang Zhen Xian 2007 Effect of spraying silicon in the seedling stage of ginger on membrane fluid peroxidation and leaf defense enzyme activity. *Zhongguo Shengtai Nongye Xuebao / Chinese Journal of Eco Agriculture*. 15 (3): 58–60.
- Kim J, Kim Y, Na K, Surh Y & Kim T 2007 6-Gingerol prevents UVB-induced ROS production and COX-2 expression *in vitro* and *in vivo*. *Free Radical Research* 41 (5): 603–614.
- Medhi R P, Damodaran T, Damodaran V, Venkatesh A & Dev G K 2007 Evaluation of ginger genotypes for yield and genetic variability under the island ecosystem of Andaman and Nicobar Islands. *Indian Journal of Horticulture* 64 (2): 231–233.
- Menon A N, Padmakumari K R, Kutty B S, Sumathikutty M A, Sreekumar M M & Rumugham C 2007 Effects of processing on the flavor compounds of Indian fresh ginger (*Zingiber officinale* Rosc.). *Journal of Essential Oil Research* 19 (2): 105–109.
- Muhammad Jamil, Kim JinKey, Zahid Akram, Ajmal S U & Rha EuiShik 2007 Regeneration of ginger plant from callus culture through organogenesis and effect of CO₂ enrichment on the differentiation of regenerated plant. *Biotechnology* 6 (1): 101–104.
- Nair R A & George T 2007 Evaluation of resistance gene (R gene) specific primer sets and characterization of resistance gene candidates in ginger (*Zingiber officinale* Rosc.). *Current Science* 93 (1): 61–66.
- Ranasingh N, Jena B C & Swain M R 2007 Important fungal pathogens associated with ginger (*Zingiber officinale* L.) in Orissa. *Journal of Plant Protection and Environment* 4 (1): 116–120.
- Sanwal S K, Yadav R K & Singh P K 2007 Effect of types of organic manure on growth, yield and quality parameters of ginger (*Zingiber officinale*). *Indian Journal of Agricultural Sciences* 77 (2): 67–72.
- Shelly T, Edu J, Smith E, Hoffman K, War M, Santos R, Favela A, Garaglano R, Ibewiro B & McInnis D 2007 Aromatherapy on a large scale: exposing entire adult holding rooms to ginger root oil increases the mating competitiveness of sterile males of the Mediterranean fruit fly in field cage trials. *Entomologia Experimentalis et Applicata* 123 (2): 193–201.
- Shimoda K, Harada T, Hamada H, Nakajima N & Hamada H 2007 Biotransformation of raspberry ketone and zingerone by cultured cells of *Phytolacca americana*. *Phytochemistry* 68 (4): 487–492.
- Shukla Y & Singh M 2007 Cancer preventive properties of ginger: a brief review. *Food and Chemical Toxicology* 45 (5): 683–690.
- Siddaraju M N & Dharmesh S M 2007 Inhibition of gastric H⁺K⁺ ATPase and *Helicobacter pylori* growth by phenolic antioxidants of *Zingiber officinale*. *Molecular Nutrition and Food Research* 51 (3): 324–332.
- Singh S P & Dwivedi D K 2007 Impact of zinc, boron and iron elements on yield and economics of ginger (*Zingiber officinale* Ros.). *International Journal of Agricultural Sciences* 3 (1): 136–138.
- Sit A K, Bhattacharya M 2007 Field evaluation of *in vitro* regenerated ginger plantlets under Sub Himalayan Terai region of West Bengal. *Environment and Ecology* 25S (Special 2): 322–324.
- Tarle S G, Jadhao B J, Panchabhai D M, Nandre D R & Khewale A P 2007 Effect of nitrogen levels on growth and yield of ginger varieties. *Plant Archives* 7 (1): 305–306.
- Tauqueer A, Nasreen Z, Khan N H & Zia ur R 2007 Enhanced *Zingiber officinale* shoot multiplication in liquid culture. *Pakistan Journal of Scientific and Industrial Research* 50 (2): 145–148.
- Tetchi F A, Rolland Sabate A, Amani G N & Colonna P 2007 Molecular and physicochemical characterisation of starches from yam, cocoyam, cassava, sweet potato and ginger produced in the Ivory Coast. *Journal of the Science of Food and Agriculture* 87 (10): 1906–1916.
- Yu Y, Huang T, Yang B, Liu X & Duan G 2007 Development of gas chromatography mass spectrometry with microwave distillation and simultaneous solid phase microextraction for rapid determination of volatile constituents in ginger. *Journal of Pharmaceutical and Biomedical Analysis* 43 (1): 24–31.

Large cardamom (*Amomum subulatum*)

- Avasthe R K, Matber Singh & Srivastava L S 2007 Traditional agro forestry systems of Sikkim with special reference to large cardamom alder relationship. *Indian Forester* 133 (7): 888–898.
- Sinu P A & Shivanna K R 2007 Pollination biology of large cardamom (*Amomum subulatum*). *Current Science* 93 (4): 548–552.

Mustard (*Brassica* spp.)

- Alam M M, Hayat S, Ali B & Ahmad A 2007 Effect of 28 homobrassinolide treatment on nickel toxicity in *Brassica juncea*. *Photosynthetica* 45 (1): 139–142.
- Collins H P, Delgado J A, Alva A K & Follett R F 2007 Use of nitrogen 15 isotopic techniques to estimate nitrogen cycling from a mustard cover crop to potatoes. *Agronomy Journal* 99 (1): 27–35.
- Coutts B A, Walsh J A & Jones R A C 2007 Evaluation of resistance to *Turnip mosaic virus* in Australian *Brassica napus* genotypes. *Australian Journal of Agricultural Research* 58 (1): 67–74.
- DaYun Z, Jian T & XiaoLin D 2007 Analysis of volatile components during potherb mustard (*Brassica juncea* Coss.) pickle fermentation using SPME GC MS. *LWT Food Science and Technology* 40 (3): 439–447.
- Dhaliwal L K, Hundal S S & Chahal S K 2007 Agroclimatic indices of Indian mustard (*Brassica juncea*) under Punjab conditions. *Indian Journal of Agricultural Sciences* 77 (2): 88–91.
- Divya R, Agarwal P, Tyagi W, Pareek S S L, Reddy M K & Sopory S K 2007 *Pennisetum glaucum* Na+/H⁺ antiporter confers high level of salinity tolerance in transgenic *Brassica juncea*. *Molecular Breeding* 19 (2): 137–151.
- Eshraghi L, Barbetti M J, Li Hua, Danehloueiipour N & Sivasithamparam K 2007 Resistance in oilseed rape (*Brassica napus*) and Indian mustard (*Brassica juncea*) to a mixture of *Pseudocercospora capsellae* isolates from Western Australia. *Field Crops Research* 101 (1): 37–43.
- Ghasolia R P & Asha S 2007 Morphological and pathogenic variability in rapeseed and mustard isolates of *Sclerotinia sclerotiorum*. *Indian Phytopathology* 60 (1): 76–81.
- Halder N K, Siddiky M A, Nasreen S, Sarkar J & Ullah M H 2007 Response of mustard as influenced by boron fertilization in Non Calcareous Dark Grey Floodplain Soil at northern region of Bangladesh. *Asian Journal of Plant Sciences* 6 (2): 411–414.
- Hayat S, Ali B, Hasan S A & Ahmad A 2007 Brassinosteroid enhanced the level of antioxidants under cadmium stress in *Brassica juncea*. *Environmental and Experimental Botany* 60 (1): 33–41.
- Jarvenpaa S, Lundberg Niinisto C, Spoof L, Sjovall O, Tyystjarvi E & Meriluoto J 2007 Effects of microcystins on broccoli and mustard and analysis of accumulated toxin by liquid chromatography mass spectrometry. *Toxicon* 49 (6): 865–874.
- Jing Ke S, Liang Gang Z, Wei Xing L & Zhen Guo S 2007 Photosynthetic characteristics of *Brassica juncea* on Pb polluted soil with different fertilizations. *Acta Botanica Boreali Occidentalis Sinica* 27 (4): 755–760.
- Kalita M C, Mohapatra T, Dhandapani A, Yadava D K, Srinivasan K, Mukherjee A K & Sharma R P 2007 Comparative evaluation of RAPD ISSR and Anchored SSR markers in the assessment of genetic diversity and fingerprinting of oilseed *Brassica* genotypes. *Journal of Plant Biochemistry and Biotechnology* 16 (1): 41–48.
- Kamble A & Bhargava S 2007 Beta Aminobutyric acid induced resistance in *Brassica juncea* against the necrotrophic pathogen *Alternaria brassicaceae*. *Journal of Phytopathology* 155 (3): 152–158.
- Kui Z, Zhong Song L, Sang L & Ming Li Y 2007 UV Vis spectrum differences of polyphenols between yellow and black seed coats of *Brassica juncea*. *Acta Agronomica Sinica* 33 (3): 476–481.
- Larkin R P & Griffin T S 2007 Control of soilborne potato diseases using *Brassica* green manures. *Crop Protection* 26 (7): 1067–1077.
- Li C X, Sivasithamparam K, Walton G, Salisbury P, Burton W, Banga S S, Shashi Banga, Chattopadhyay C, Kumar A, Singh R, Singh D, Agnohotri A, Liu S Y, Li Y C, Fu T D, Wang Y F & Barbetti M J 2007 Expression and relationships of resistance to white rust (*Albugo candida*) at cotyledonary seedling and flowering stages in *Brassica juncea* germplasm from Australia China and India. *Australian Journal of Agricultural Research* 58 (3): 259–264.
- Mahmood T, Rahman M H, Stringam G R, Yeh F & Good A G 2007 Quantitative trait loci for early maturity and their potential in breeding for earliness in *Brassica juncea*. *Euphytica* 154 (1/2): 101–111.
- Malhi S S, Gan Y & Raney J P 2007 Yield seed quality and sulfur uptake of *Brassica* oilseed crops in response to sulfur fertilization. *Agronomy Journal* 99 (2): 570–577.
- Marschner P, Solaiman Z & Rengel Z 2007 *Brassica* genotypes differ in growth phosphorus uptake and rhizosphere properties under P limiting conditions. *Soil Biology and Biochemistry* 39 (1): 87–98.
- Mazzola M, Brown J, Izzo A D & Cohen M F 2007 Mechanism of action and efficacy of seed meal induced pathogen suppression differ in a Brassicaceae species and time dependent manner. *Phytopathology* 97 (4): 454–460.
- Mohammad Mobin, Khan N A 2007 Photosynthetic activity pigment composition and antioxidative response of two mustard (*Brassica juncea*) cultivars differing in photosynthetic capacity subjected to cadmium stress. *Journal of Plant Physiology* 164 (5): 601–610.
- Ohta T, Imagawa T & Ito S 2007 Novel agonistic action of mustard oil on recombinant and endogenous porcine transient receptor potential V1 (pTRPV1) channels. *Biochemical Pharmacology* 73 (10): 1646–1656.
- Oracz K, Bailly C, Gniazdowska A, Come D, Corbineau F & Bogatek R 2007 Induction of oxidative stress by sunflower phytotoxins in germinating mustard seeds. *Journal of Chemical Ecology* 33 (2): 251–264.
- Rajesh Kumar, Harvir Singh, Rohilla H R Chhillar B S 2007 Growth rate of mustard aphid *Lipaphis erysimi* (Kalt.) on different rapeseed mustard crops. *Annals of Biology* 23 (1): 65–69.
- Sanjeev Rai, Singh N N & Monobrullah M 2007 Efficacy of management modules against *Lipaphis erysimi* on mustard. *Annals of Plant Protection Sciences* 15 (1): 251–253.
- Singh D & Vera B S 2007 Effect of different sources of sulphur on the yield of Indian mustard (*Brassica juncea* L.) in pearl millet mustard cropping system. *Annals of Biology* 23 (1): 17–18.
- Singh D & Verma B S 2007 Indian mustard (*Brassica juncea*) seed yield and oil yield as affected by sulphur. *Annals of Biology* 23 (1): 19–21.
- Singh M K & Paras Nath 2007 Effect of dates of sowing of *Brassica juncea* on coccinellid beetle of *Lipaphis erysimi* Kalt. *Annals of Plant Protection Sciences* 15 (1): 8–11.
- Singh N B, Monalisa P, Singh N G & Laishram J M 2007 Heterosis in Indian mustard (*Brassica juncea* L.) Czern and Coss) for seed yield its attributes and oil yield in relation to genetic divergence and combining ability. *Environment and Ecology* 25 (1): 220–224.
- Singh P K, Singh A B, Sharma S K & Gupta R C 2007 Effect of industrial waste on the nutrient uptake (P S and Mn) and yield of mustard crop. *Journal of Interacademicia* 11 (1): 40–43.
- Yusuf M A & Sarin N B 2007 Antioxidant value addition in human diets: genetic transformation of *Brassica juncea* with gamma TMT gene for increased alpha tocopherol content. *Transgenic Research* 16 (1): 109–113.
- Nutmeg (*Myristica fragrans* Houtt.)**
- Burubai W, Akor A J, Igoni A H & Puyate Y T 2007 Some physical properties of African nutmeg (*Monodora myristica*). *International Agrophysics* 21 (2): 123–126.

Haldankar P M, Joshi G D, Jamadagni B M & Khandekar R G 2007 Studies on genetic divergence in nutmeg (*Myristica fragrans* Houtt.). *Journal of Maharashtra Agricultural Universities* 32 (2): 195–197.

Shapiro M, Shepard B M & Lopez R 2007 Effect of spices upon the activity of the gypsy moth (Lepidoptera: Lymantriidae) nucleopolyhedrovirus. *Journal of Entomological Science* 42 (1): 84–91.

Origano (*Origanum* spp.)

Cetin H, Erler F & Yanikoglu A 2007 A comparative evaluation of *Origanum onites* essential oil and its four major components as larvicides against the pine processionary moth *Thaumetopoea wilkinsoni* Tams. *Pest Management Science* 63 (8): 830–833.

Economou G, Travlos I S, Folinas A & Karamanos A J 2007 Greek oregano (*Origanum vulgare* ssp. *hirtum*) as allelopathic plant. *Journal of Food Agriculture and Environment* 5 (1): 348–351.

PoJung T, TzungHsun T, ChunHsien Y & Ho SuChen 2007 Evaluation of NO suppressing activity of several Mediterranean culinary spices. *Food and Chemical Toxicology* 45 (3): 440–447.

Parsley (*Petroselinum* spp.)

Alvares V S, Finger F L, Santos R C de A, Negreiros J R da S & Casali V W D 2007 Effect of pre cooling on the postharvest of parsley leaves. *Journal of Food Agriculture and Environment* 5 (2): 31–34.

Cordobes D C, Garcia M J M, Lombardero M, Ledesma A & Bobadilla P 2007 Detection of a 12 kilodalton lipid transfer protein allergen in Parsley. *Journal of Investigational Allergology and Clinical Immunology* 17 (4): 282–283.

Cunnington J H, Minchinton E J, Auer D P F & Petroselinum Martin H L 2007 First record of *Alternaria petroselini* sensu lato causing leaf blight on parsley in Australia. *Plant Pathology* 56 (4): 723.

Flodrova D, Dzurova M, Liskova D, Mohand F A, Mislovicova D, Malovikova A, Voburka Z, Omelkova J & Stratilova E 2007 Pectate hydrolases of parsley (*Petroselinum crispum*) roots. *Zeitschrift fur Naturforschung Section C Biosciences* 62 (5/6): 382–388.

Gornicki K & Kaleta A 2007 Modelling convection drying of blanched parsley root slices. *Biosystems Engineering* 97 (1): 51–59.

Gruszecki R 2007 The effect of the method of leaves removing on storage ability of Hamburg parsley. *Vegetable Crops Research Bulletin* 66: 79–83.

Ozturk L, Bulbul M, Elmastas M & Ciftci M 2007 Purification and some kinetic properties of catalase from parsley (*Petroselinum hortense* Hoffm. Apiaceae) leaves. *Preparative Biochemistry and Biotechnology* 37 (3): 229–238.

Raid R, Miller C & Pernezny K 2007 First report of powdery mildew of parsley caused by *Erysiphe heraclei* in Florida. *Plant Disease* 91 (4): 461.

Rosemary (*Rosmarinus officinalis* L.)

Altinier G, Sosa S, Aquino R P, Mencherini T, Loggia Rdella & Tubaro A 2007 Characterization of topical antiinflammatory compounds in *Rosmarinus officinalis* L. *Journal of Agricultural and Food Chemistry* 55 (5): 1718–1723.

Alvarez L A, Perez Sierra A, Armengol J & GarciaJimenez J 2007 Characterization of *Phytophthora nicotianae* isolates causing collar and root rot of lavender and rosemary in Spain. *Journal of Plant Pathology* 89 (2): 261–264.

Celiktas O Y, Kocabas E E H, Bedir E, Sukan F V, Ozek T & Baser K H C 2007 Antimicrobial activities of methanol extracts and essential oils of *Rosmarinus officinalis* depending on location and seasonal variations. *FoodChemistry* 100 (2): 553–559.

Deef H E 2007 Copper treatments and their effects on growth, carbohydrates, minerals and essential oils contents of *Rosmarinus officinalis* L. *World Journal of Agricultural Sciences*. 3 (3): 322–328.

Doolaege E H A, Raes K, Smet K, Andjelkovic M, Poucke C van, Smet Sde & Verhe R 2007 Characterization of two unknown compounds in methanol extracts of rosemary oil. *Journal of Agricultural and Food Chemistry* 55 (18): 7283–7287.

Gonzalez Trujano M E, Pena E I, Martinez A L, Moreno J, Guevara F P, Deciga C M & Lopez M F J 2007 Evaluation of the antinociceptive effect of *Rosmarinus officinalis* L. using three different experimental models in rodents. *Journal of Ethnopharmacology* 111 (3): 476–482.

Olmos E, Blanco S M, Fernandez T & Alarcon JJ 2007 Subcellular effects of drought stress in *Rosmarinus officinalis*. *Plant Biology* 9 (1): 77–84.

Pereira C G & Meireles M A A 2007 Economic analysis of rosemary fennel and anise essential oils obtained by supercritical fluid extraction. *Flavour and Fragrance Journal* 22 (5): 407–413.

Perez M B, Calderon N L & Croci C A 2007 Radiation induced enhancement of antioxidant activity in extracts of rosemary (*Rosmarinus officinalis* L.). *Food Chemistry* 104 (2): 585–592.

Putnam S E, Scutt A M, Bicknell K, Priestley C M & Williamson E M 2007 Natural products as alternative treatments for metabolic bone disorders and for maintenance of bone health. *Phytotherapy Research* 21 (2): 99–112.

Salehi P, Fakhari AR, Ebrahimi S N & Heydari R 2007 Rapid essential oil screening of *Rosmarinus officinalis* L. by hydrodistillation headspace solvent microextraction. *Flavour and Fragrance Journal* 2 (4): 280–285.

Singh M, Rao R S G & Ramesh S 2007 Effects of N and K on growth herbage oil yield and nutrient uptake patterns in rosemary (*Rosmarinus officinalis* L.) under semiarid tropical conditions. *Journal of Horticultural Science and Biotechnology* 82 (3): 414–419.

Saffron (*Crocus sativus* L.)

Caballero O H, Pereda M R & Abdullaev F I 2007 HPLC quantification of major active components from 11 different saffron (*Crocus sativus* L.) sources. *Food Chemistry* 100 (3): 1126–1131.

Makarian H, Mohassel M H R, Bannayan M & Nassiri M 2007 Soil seed bank and seedling populations of *Hordeum murinum* and *Cardaria draba* in saffron fields. *Agriculture Ecosystems and Environment* 120 (2/4): 307–312.

Saeidian S, Keyhani E & Keyhani J 2007 Effect of ionic detergents nonionic detergents and chaotropic agents on polyphenol oxidase activity from dormant saffron (*Crocus sativus* L.) corms. *Journal of Agricultural and Food Chemistry* 55 (9): 3713–3719.

Sonnino R 2007 Embeddedness in action: saffron and the making of the local in southern Tuscany. *Agriculture and Human Values* 24 (1): 61–74.

Xi L, Qian Z, Xu G, Zheng S, Sun S, Wen N, Sheng L, Shi Y & Zhang Y 2007 Beneficial impact of crocetin a carotenoid from saffron on insulin sensitivity in fructose fed rats. *Journal of Nutritional Biochemistry* 18 (1): 64–72.

Tamarind (*Tamarindus indica* L.)

Chitwarin T, Chanthachum S & Adulyatham P 2007 Nutritional compositions in tamarind seedling. Proceedings of the 45th Kasetsart University Annual Conference, Bangkok, Thailand, 30 January–2 February 2007, Subject: Plants 107–113.

Sanjay Singh & Singh A K 2007 Standardization of method and time of vegetative propagation in tamarind under semi-arid environment of western India. *Indian Journal of Horticulture* 64 (1): 45–49.

Thyme (*Thymus* spp.)

Bazylko A & Strzelecka H 2007 A HPTLC densitometric determination of luteolin in *Thymus vulgaris* and its extracts. *Fitoterapia* 78 (6): 391–395.

- Hudaib M & Aburjai T 2007 Volatile components of *Thymus vulgaris* L. from wild growing and cultivated plants in Jordan. *Flavour and Fragrance Journal* 22 (4): 322–327.
- Loziene K, Venskutonis P R, Sipailiene A & Labokas J 2007 Radical scavenging and antibacterial properties of the extracts from different *Thymus pulegioides* L. chemotypes. *Food Chemistry* 103 (2): 546–559.
- Omidbeygi M, Barzegar M, Hamidi Z & Naghdibadi H 2007 Antifungal activity of thyme summer savory and clove essential oils against *Aspergillus flavus* in liquid medium and tomato paste. *Food Control* 18 (12): 1518–1523.
- Turmeric (*Curcuma longa* L.)**
- Akamine H, Hossain M A, Ishimine Y, Yogi K, Hokama K, Iraha Y & Aniya Y 2007 Effects of application of N P and K alone or in combination on growth yield and curcumin content of turmeric (*Curcuma longa* L.). *Plant Production Science* 10 (1): 151–154.
- Babu G D K, Shanmugam V, Ravindranath S D & Joshi V P 2007 Comparison of chemical composition and antifungal activity of *Curcuma longa* L. leaf oils produced by different water distillation techniques. *Flavour and Fragrance Journal* 22 (3): 191–196.
- Bhattacharyya S, Mandal D, Saha B, Sen G S, Tanya D & Gaurisankar S 2007 Curcumin prevents tumor induced T cell apoptosis through Stat 5a mediated Bcl 2 induction. *Journal of Biological Chemistry* 282 (22): 15954–15964.
- Braun L 2007 Turmeric (*Curcuma longa*). *Journal of Complementary Medicine* 6 (5): 434–446.
- Camacho Barquero L, Villegas I, Sanchez Calvo J M, Talero E, Sanchez Fidalgo S, Motilva V & Alarcon de la Lastra C 2007 Curcumin, a *Curcuma longa* constituent acts on MAPK p38 pathway modulating COX 2 and iNOS expression in chronic experimental colitis. *International Immunopharmacology* 7 (3): 333–342.
- Chainani Wu N, Silverman S Jr, Reingold A, Bostrom A, Mc Culloch C, Lozada Nur F & Weintraub J 2007 A randomized placebo controlled double blind clinical trial of curcuminoids in oral lichen planus. *Phytomedicine* 14 (7/8): 437–446.
- Cousins M, Adelberg J, Chen F & Rieck J 2007 Antioxidant capacity of fresh and dried rhizomes from four clones of turmeric (*Curcuma longa* L.) grown *in vitro*. *Industrial Crops and Products* 25 (2): 129–135.
- Faivre C 2007 *Curcuma*: a root for all sauces. *Pratique Vet de l' Animal de Compagnie* (34): 15–16.
- Feng W & Wei H 2007 Determination of curcumin by its quenching effect on the fluorescence of Eu³⁺-tryptophan complex. *Journal of Pharmaceutical and Biomedical Analysis* 43 (1): 393–398.
- Halder N K, Shill N C, Siddiky M A, Sarkar J & Gomez R 2007 Response of turmeric to zinc and boron fertilization. *Journal of Biological Sciences* 7 (1): 182–187.
- Hossain M A & Ishimine Y 2007 Effects of farmyard manure on growth and yield of turmeric (*Curcuma longa* L.) cultivated in dark red soil red soil and gray soil in Okinawa Japan. *Plant Production Science* 10 (1): 146–150.
- Pirjade F N, Jogdande N D, Nandre D R, Ghawade S M & Patil P A 2007 Varietal performance of turmeric. *Plant Archives* 7 (1): 363–364.
- Mowllick S, Karim M M, Hossain M M, Akhter M S & Rahman M S 2007 Determination of spray schedule of Bavistin in controlling leaf blotch disease of turmeric in hilly region. *Journal of Subtropical Agricultural Research and Development* 5 (3): 297–300.
- Martelli L, Ragazzi E, Mario F di, Martelli M, Castagliuolo I, Maschio M dal, Palu G, Maschietto M, Scorzeto M, Vassanelli S & Brun P 2007 A potential role for the vanilloid receptor TRPV1 in the therapeutic effect of curcumin in dinitrobenzene sulphonic acid induced colitis in mice. *Neurogastroenterology and Motility* 19 (8): 668–674.

- Mandal V, Yogesh M & Hemalatha S 2007 Optimization of curcumin extraction by microwave assisted *in vitro* plant cell bursting by orthogonal array designed extraction process and HPTLC analysis. *Pharmacognosy Magazine* 3 (11): 132–138.
- Jadhav B K, Mahadik K R & Paradkar A R 2007 Development and validation of improved reversed phase HPLC method for simultaneous determination of curcumin, demethoxycurcumin and bis demethoxycurcumin. *Chromatographia* 65 (7/8): 483–488.
- Kamath R, Jiang Z H, Sun G M, Yalowich J C & Baskaran R 2007 c-Abl Kinase regulates curcumin-induced cell death through activation of c-Jun N-terminal Kinase. *Molecular Pharmacology* 71 (1): 61–72.
- Lee Sheng Hsien, Chang Ku Shang, Su Min Sheng, Huang Yung Sheng & Jang Hung Der 2007 Effects of some Chinese medicinal plant extracts on five different fungi. *Food Control* 18 (12): 1547–1554.
- Jagetia G C & Aggarwal B B 2007 "Spicing up" of the immune system by curcumin. *Journal of Clinical Immunology* 27 (1): 19–35.
- Kumar R A, Vijayalatha K R, Alagesan A & Chezhiyan N 2007 Correlation and path coefficient for morphological traits and yield in turmeric (*Curcuma longa*) genotypes. *Journal of Ecobiology* 19 (1): 33–36.
- Lako J, Trencerry V C, Wahlqvist M, Wattanapenpaiboon N, Sotheeswaran S, Premier R 2007 Phytochemical flavonols carotenoids and the antioxidant properties of a wide selection of Fijian fruit vegetables and other readily available foods. *Food Chemistry* 101 (4): 1727–1741.
- Parthasarathy U, Johny A K, Jayarajan K & Parthasarathy V A 2007 Site suitability for turmeric production in India - a GIS interpretation. *Natural Product Radiance* 6 (2): 142–147.
- Qin N Y, Yang F Q, Wang Y T & Li S P 2007 Quantitative determination of eight components in rhizome (Jianghuang) and tuberous root (Yujin) of *Curcuma longa* using pressurized liquid extraction and gas chromatography mass spectrometry. *Journal of Pharmaceutical and Biomedical Analysis* 43 (2): 486–492.
- Sankari S A & Narayanasamy P 2007 Bio efficacy of flyash based herbal pesticides against pests of rice and vegetables. *Current Science* 92 (6): 811–816.
- Shaffrathul J H, Karthick P S, Reena Rai & Srinivas C R 2007 Turmeric: role in hypertrichosis and acne. *Indian Journal of Dermatology* 52 (2): 116.
- Tyagi R K, Anuradha A, Mahalakshmi C, Hussain Z & Tyagi H 2007 Low cost media for in vitro conservation of turmeric (*Curcuma longa* L.) and genetic stability assessment using RAPD markers. *In Vitro Cellular and Developmental Biology Plant* 43 (1): 51–58.
- Vikas Jain, Vure Prasad, Pal R & Singh S 2007 Standardization and stability studies of neuroprotective lipid soluble fraction obtained from *Curcuma longa*. *Journal of Pharmaceutical and Biomedical Analysis* 44 (5): 1079–1086.
- Wakhare A V, Bhatt R I, Kamble B M, Patil Y G & Bhende S N 2007 Effect of planting methods spacing and levels of nitrogen on growth and yield of turmeric (*Curcuma longa* L.). *Advances in Plant Sciences* 20 (1): 201–204.
- Yan Qiu X, Liji J, Bin Z, Hong Yu X, Qiu Juan L & Yong Ping X 2007 The potentiation of curcumin on insulin like growth factor 1 action in MCF 7 human breast carcinoma cells. *Life Sciences* 80 (23): 2161–2169.
- Vanilla (*Vanilla planifolia* Andrews)**
- Ashoka S, Hegde Y R & Kulkarni S 2007 Interaction between fungal pathogens in *Vanilla planifolia* under shade net condition. *Journal of Plant Disease Sciences* 2 (1): 99–100.
- Castro B G & Garcia F J G 2007 Vanilla (*Vanilla planifolia* Andrews) crop systems used in the Totonacapan area of Veracruz Mexico: biological and productivity evaluation. *Journal of Food Agriculture and Environment* 5 (2): 136–142.

- Gatfield I, Hilmar J M, Weber B, Hammerschmidt F, Reiss I, Poutot G, Bertram H J & Meier D 2007 Chemical and biochemical changes occurring during the traditional Madagascan vanilla curing process: effects on the sensory qualities of cured beans. *Perfumer and Flavorist* 32 (7): 20–28.
- Ramalingam R, Raju U & Ramasamy S 2007 Intellectual property rights and regulatory issues related to biotechnology of genotyping antibiotic producing fluorescent pseudomonads to select effective rhizobacteria for the management of major vanilla diseases. *Annals of Microbiology* 57 (2): 163–170.
- Sinha A K, Verma S C & Sharma U K 2007 Development and validation of an RP HPLC method for quantitative determination of vanillin and related phenolic compounds in *Vanilla planifolia*. *Journal of Separation Science* 30 (1): 15–20.
- Sreedhar R V, Lakshmanan V & Neelwame B 2007 Genetic fidelity of long term micropropagated shoot cultures of vanilla (*Vanilla planifolia* Andrews) as assessed by molecular markers. *Biotechnology Journal* 2 (8): 1007–1013.