

## **SPICES BIBLIOGRAPHY - 1997 (Part I)**

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### **Spices - General**

Ahmed R S & Sharma S B 1997 Biochemical studies on combined effect of garlic and ginger in albino rats. Indian Journal of Experimental Biology 35 (8) : 841-844.

Chalchat J C, Garry R P, Meenut C, Lamaty G, Mathluret R & Chopineau J 1997 Correlation between chemical composition and antimicrobial activity. VI. Activity of some African essential oils. Journal of Essential Oil Research 9 (1) : 67-75.

Cheriyankunju N E 1997 Know your market for spices. Spice India 10 (1) : 21-25; 10 (4) : 18-20; 10 (9) : 18-19; 10 (12) : 6-9.

Drawis S N 1997 Reforming International Pepper Community - The challenges of world spices. International Pepper News Bulletin 21 (2) : 11-25.

Jayathilakan K, Vasundhara T S & Kumudavally K V 1997 Effect of spices and maillard reaction products on rancidity development in precooked refrigerated meat. Journal of Food Science and Technology 34 (2) : 128-132.

Jeetendra Desai 1997 Spices: from medicinal point of view. Spice India 10 (5) : 15-18.

Johny kutty P C 1997 Astra drier. Spice India 10 (3) : 12.

Johny kutty P C 1997 Spices in North East - a survey. Spice India 10 (6) : 6-8.

Malarvannan S, Udayakumar A & Sundaram V 1997 Pest management. Spice India 10 (3) : 21-24.

Marcos B, Esteban M A, Lopez P, Alcala M, Gomez R, Espejo J & Marcos A 1997 Monolayer values of 30°C of various spices as computed by the BET and GAB models. Zeitschrift Fur Lebensmittel Untersuchung Und -Forschung A 204 (2) : 109-113.

Oya T, Osawa T & Kawakishi S 1997 Spice constituents scavenging free radicals and inhibiting pentosidine formation in a model system. Bioscience, Biotechnology and Biochemistry 61 (2) : 263-267.

- Palaniappan C 1997 Quality improvement in spices by solar drying. Spice India 10 (11) : 13-18.
- Peter K V 1997 Fifty years of research on major spices in India. Indian Spices 34 (1/2) : 20, 26-28, 30-36.
- Peter K V, Jose Abraham, Prasad M V & Santosh J Eapen 1997 Scientific information for transfer to spice growers. Spice India 10 (9) : 8-11.
- Reesan Z, Pagliuca G, Piretti M V, Penzes L G, Youdim K A, Oble R C & Deans S G 1997 Effect of essential oils on the lipids of the retina in the ageing rat: a possible therapeutic use. Journal of Essential Oil Research 9 (1) : 53-56.
- Sanjeev Agrawal, Sharma R K & Edison S 1997 Quality concepts in seed spices. Spice India 10 (2) : 8-12.
- Singh V B & Singh K 1997 Spices. Current Science 72 (4) : 287.
- Tanaka Y, Konishi Y & Takagaki Y 1997 Effect of spices on  $\beta$ -hexosaminidase release from rat basophilic leukemia cells (RBL -2H3). Journal of Food Hygenic Society of Japan 38 (1) : 7-12.
- Thamhi P S S 1997 Fourth world spice congress. Spice India 10 (5) : 5.
- Tongaonkar S S, Nara M & Singh D K 1997 Therapeutic efficacy of herbal topical gel AV/AMP/14 in acute mastitis. Indian Veterinary Medical Journal 21 (1) : 71-73.
- Venkataraman L 1997 Vermiculture in spice production. Spice India 10 (4) : 6-10.
- Verghese J 1997 The world of spices and herbs. Spice India 10 (1) : 15-19; 10 (2) : 14-16; 10 (3) : 6-9; 10 (4) : 11-13; 10 (5) : 9-12; 10 (6) : 11-14; 10 (7) : 8-12; 10 (8) : 11-16; 10 (9) : 12-17; 10 (10) : 14-18; 10 (11) : 7-9, 10 (12) : 11-15.

#### Ajowan (*Trachyspermum ammi*)

Shiva Reddy N, Anjanappa M, Narayana Swamy P & Shivalingappa J 1997 Production technology of ajowan. Spice India 10 (11) : 19-20.

#### Allspice (*Pimento dioica*)

Garcia-Fazardo, Martinez-Sosa M & Estarron-Espinosa M 1997 Comparative study of the oil and supercritical  $\text{CO}_2$  extract of Mexican pimento. Journal of Essential Oil Research 9 (2) : 181-185.

#### Basil (*Ocimum* spp.)

Ejobi F & Latigo A A R 1997 Local knowledge repels mosquitoes in Kenya. Appropriate Technology 23 (4) : 32-33.

Lange D L & Cameron A C 1997 Pre and postharvest temperature conditioning of green house grown sweet basil. HortScience 32 (1) : 114-117.

Ndounga M & Ouamba J M 1997 Antibacterial and antifungal activities of essential oil of *Ocimum gratissimum* and *Ocimum basilicum* from Congo. Fitoterapia 68 (2) : 190-191.

#### Black pepper (*Piper nigrum* and related species)

Akah P A, Gamaniel K S, Samson A & Wambebe C O 1997 Evaluation of Nigerian traditional medicine: effects of Gakani, a herbal anti-asthmatic drug. Journal of Ethnopharmacology 55 (2) : 87-92.

De Araujo-Junior J X, Dacunha E V L, Chaves M C D & Gray A I 1997 Piperdardine, a piperidine alkaloid from *Piper tuberculatum*. Phytochemistry 44 (3) : 559-561.

Desai A E, Ladhe R U & Deoray B M 1997 Larvicidal activity of acetone extract of *Piper nigrum* seeds to a major vector *Anopheles subpictus* from Nasik region. Geobios 24 (1) : 13-16.

Onyenekwe P C, Ogbadu G H & Hashimoto S 1997 The effect of gamma radiation on the microflora and essential oil of Ashanti pepper (*Piper guineense*) berries. Postharvest Biology and Technology 10 (2) : 161-169.

Parani M, Anand A & Parida A 1997 Application of RAPD finger printing in selection of micropropagated plants of *Piper longum* for conservation. Current Science 73 (1) : 81-83.

Prabhakaran P V 1997 Quantitative determination of loss in yield of black pepper in Kannur District (Kerala, India). Journal of Spices and Aromatic Crops 6 (1) : 31-36.

Pugalendhi L, Nageswari K & Azhakiamanavalan R S 1997 Black pepper - suitable intercrop in coffee plantations of Shevroy. Spice India 10 (7) : 3-4.

Ravindran P N, Balakrishnan R & Nirmal Babu K 1997 Morphometrical studies on black pepper I. Cluster analysis of black pepper cultivars. Journal of Spices and Aromatic Crops 6 (1) : 9-20.

Ravindran P N, Balakrishnan R & Nirmal Babu K 1997 Morphometrical studies on black pepper II. Principal component analysis of black pepper cultivars. Journal of Spices and Aromatic Crops 6 (1) : 21-29.

Shankaracharya N B, Rao L J, Naik J P & Nagalakshmi S 1997 Characterisation of chemical constituents of Indian long pepper (*Piper longum* L.). Journal of Food Science and Technology (Mysore) 34 (1) : 73-76.

Siddiqui M M H, Jafri S A H & Salma M 1997 Clinical study of *Akseer-e-surfa* in *Sual-e-muzamin* (chronic cough). Hamdard Medicus 40 (1) : 102-107.

*Spices bibliography*

Sujatha S 1997 A simple technique for rooting of cuttings in pepper. Spice India 10 (2) : 22-23.

Suresh P K 1997 Organic control of foot rot disease in pepper - some useful tips. Spice India 10 (9) : 7-8.

Thankamma A & Radhika L G 1997 Standardisation of *Brahmigritham*. Aryavaidyan 10 (3) : 177-182

Venkatesan B 1997 Scale infestation in black pepper. Spice India 10 (6) : 10.

Wu Q L, Wang S P, Tu G Z, Feng Y X & Yang J S 1997 Alkaloids from *Piper puberulum*. Phytochemistry 44 (4) : 727-730.

**Cardamom (*Elettaria cardamomum*)**

Edison S & Johny A 1997 Technologies developed for increasing cardamom production. Spice India 10 (12) : 18-20.

Joseph Thomas, Dhanapal K, Suseela Bhai R & Vijayan A K 1997 Diseases of cardamom and causal organisms. Spice India 10 (8) : 3-4.

Krishna K V S 1997 Cardamom plantation at Papua New Guinea. Spice India 10 (7) : 23-24.

Korikanthimath V S, Ravindra Mulge & Hosmani M M 1997 Preliminary evaluation of elite clones of cardamom for yield and yield parameters in clonal nursery. Journal of Spices and Aromatic Crops 6 (1) : 37-41.

Korikanthimath V S, Ravindra Mulge, Rajendra Hegde & Hosmani M M 1997 Coffee - cardamom, black pepper and mandarin mixed cropping system - a case study. Journal of Spices and Aromatic Crops 6 (1) : 1-7.

Mukesh Sankar 1997 Insure your cardamom. Spice India 10 (5) : 6-8.

Selvakumaran S, Vasantharaj David B & Kumaresan D 1997 Is the cardamom whitefly *Kanakarajiella cardamomi* (David and Subramaniam) a vector of Nilgiri necrosis virus disease of cardamom ? Journal of Spices and Aromatic Crops 6 (1) : 55-56.

Shanthaveerabhadraiah S M, Chandrappa H M & Thimmarayappa M 1997 Effect of growth regulators and spacing on multiplication of planting units in cardamom. Journal of Spices and Aromatic Crops 6 (1) : 49-50.

Varadarasan S 1997 Conservation of natural enemies of cardamom insect pests. Spice India 10 (2) : 2 - 3.

**Celery (*Apium graveolens*)**

Avena Bustillos R D, Krochta J M & Saltveit M E 1997 Water vapour resistance of red delicious apples and celery sticks coated with edible caseinateacetylated monoglyceride films. Journal of Food Science 62 (2) : 351-355.

Cardenas F A, Vail P V, Hoffmann D F, Tebbets J S & Schreiber F E 1997 Infectivity of celery looper (Lepidoptera: Noctuidae) multiple nucleocapsid

*Spices bibliography*

polyhydrosis virus to navel orangeworm (Lepidoptera: Pyralidae). Environmental Entomology 26 (1) : 131.

Choi Y E & Soh W Y 1997 Origin and early developmental patterns of somatic embryo from freely suspended single cells in cell culture celery. Phytomorphology 47 (1) : 107-117.

Crozier A, Lean M E J, McDonald M S & Black C 1997 Quantitative analysis of the flavonoid content of commercial tomatoes, onions, lettuce and celery. Journal of Agricultural and Food Chemistry 45 (3) : 590-596.

Dohya N, Matsubara S & Murakami K 1997 Callus formation and regeneration of adventitious embryos from celery microspores by anther and isolated microscope cultures. Journal of Japanese Society for Horticultural Science 65 (4) : 747-753.

Edwards S J, Collin H A & Isaac S 1997 The response of different celery genotypes to infection by *Septoria apicola*. Plant Pathology 46 (2) : 264-271.

Everard J D, Cantini C, Grumet R, Plummer J & Loescher W H 1997 Molecular cloning of mannose - 6 phosphate reductase and its developmental expression in celery. Plant Physiology 113 (4) : 1427.

Nigg H N, Strandberg J O, Beier R C, Peterson H D & Harrison J M 1997 Furanoconumarins in Florida celery varieties increased by fungicide treatment. Journal of Agricultural and Food Chemistry 45 (4) : 1430-1437.

Sharma S K 1997 Improving celery cultivation in Uttar Pradesh (Hindi). Spice India 10 (1) : 5-6.

Trumble J T, Carson W G & Kund G S 1997 Economic and environmental impact of a sustainable integrated pest management program in celery. Journal of Economic Entomology 90 (1) : 139-147.

**Chillies (*Capsicum spp.*)**

Ahamed N, Khan S H & Tanki M I 1997 Combining ability analysis for fruit yield and its component characters in sweet pepper. Capsicum & Eggplant Newsletter No.17 : 72-75.

Ahamed N, Nayeema J & Tanki M I 1997 Character association in hot pepper. Capsicum & Eggplant Newsletter No.17: 68-71.

Avilla C, Collar J L, Duque M & Fereres A 1997 Yield of bell pepper inoculated with CMV and/or PVY at different time intervals. Journal of Plant Diseases and Protection 104 (1) : 1-9.

Berke T 1997 Current status of international chilli nursery. Capsicum & Eggplant Newsletter No.17: 80-81.

Berke T & Engle L 1997 Current status of major capsicum germplasm collections worldwide. Capsicum & Eggplant Newsletter No.17: 76-79.

- Blanke M M & Holthe P A 1997 Bioenergetics, maintenance respiration and transpiration of pepper fruits. *Journal of Plant Physiology* 150 (3) : 247-251.
- Caranta C, Palloix A, Lefebvre V & Daubeze A M 1997 QTLs for a component of partial resistance to cucumber mosaic virus in pepper: restriction to virus installation in host-cells. *Theoretical and Applied Genetics* 94 (3-4) : 431-439.
- Catala M S & Costa J 1997 Paprika varieties for cold zones of the region de Murcia, Spain. *Capsicum & Eggplant Newsletter* No.17: 82-84.
- Chandramani P, Pillayarsamy K, Chezhiyan N & Balasubramani P 1997 Protect paprika chillies from pests. *Spice India* 10 (4) : 3.
- Delacruz A, Lopez L, Tenllado F, Diaz Ruiz J R, Sanz A I, Vaquero C, Serra M T & Garcia Luque I 1997 The coat protein is required for the elicitation of the Capsicum L (2) gene mediated resistance against tobamoviruses. *Molecular Plant-Microbe Interactions* 10 (1) : 107-114.
- Estrada B, Pomar F, Diaz J, Merino F & Bernal A 1997 Evolution of capsaicinoids in *Capsicum annuum* L. var. *annuum* cv. 'padron' fruit at different growth steps. *Capsicum & Eggplant Newsletter* No.17: 56-59.
- Fallik E, Grinberg S & Ziv O 1997 Potassium bicarbonate reduces post harvest decay development on bell pepper fruits. *Journal of Horticultural Science* 72 (1) : 35-43.
- Galmarini G R 1997 Pepper breeding in Argentina. *Capsicum & Eggplant Newsletter* No. 16 : 28-34.
- Guadayol J M, Caixach J, Ribe J, Cabana S J & Rivera J, 1997 Extraction separation and identification of volatile organic compounds from paprika oleoresin (Spanish type). *Journal of Agricultural and Food Chemistry* 45 (5) : 1868-1872.
- Gupta C G, Lakshmi N & Srivalli T 1997 Analysis of isozyme patterns (peroxidase) of capsicum hybrids through PAGE. *Capsicum & Eggplant Newsletter* No.17 : 64-67.
- Harpster M H, Lee K Y & Dunsmuir P 1997 Isolation and characterization of a gene encoding endo-B-1, 4-glucanase from pepper. *Plant Molecular Biology* 33 (1) : 47-61.
- Ishikawa K, Mishiba K, Yoshida H & Nunomura O 1997 Establishment of tetraploid plants of *Capsicum annuum* L. by colchicine treatment with analysis of flow cytometry. *Capsicum & Eggplant Newsletter* No.16 : 44-47.
- Ishikawa K, Nunomura O, Nakamura H, Matsufuji H & Michiharu T 1997 High ascorbic acid content in the fruits of a deep-green cultivar of *Capsicum annuum* throughout the fruit development. *Capsicum & Eggplant*

Newsletter No.16 : 52-55.

- Ismail M R & Davies W J 1997 Water relations of *Capsicum* genotypes under water stress. *Biologia Plantarum* 39 (2) : 293-299.
- Jo M H, Yamamoto M, Matsubara S & Murakami K 1997 Fruit yield and ascorbic acid and capsaicinoid contents in the fruit of intervarietal hybrids of *Capsicum annuum* L. *Journal of Japanese Society for Horticultural Science* 65 (4) : 713-723.
- Jung Y S, Chao T S, Moon C H & Shin H S 1997 Neurotoxic desensitizing effect of capsaicin on peripheral sensory nerve ending in guinea pig bronchi. *Yakhak Hoeji* 41 (1) : 139-146.
- Kim K D, Nemec S & Musson G 1997 Effect of composts and soil amendments on soil microflora and *Phytophthora* root and crown rot of bell pepper. *Crop Protection* 16 (2) : 165-173.
- Kuo H C 1997 Comparative study of the effects of capsaicin on the contractility of normal and spinal cord injured human bladders. *Proceedings of the National Science Council, Pt. B. Life Sciences* 21 (1) : 13-19.
- Lanteri S, Quagliotti L, Belletti P, Scordino A, Triglia A & Musumeci F 1997 Delayed luminescence of unaged and controlled deteriorated pepper seeds. *Capsicum & Eggplant Newsletter* No.17: 106-109.
- Lefebvre V, Caranta C, Pflieger S, Moury B, Doubeze A M, Blattes A, Ferriere C, Phaly T, Nemouchi G, Ruffinatto A & Polloix A 1997 Updated intraspecific maps of pepper. *Capsicum & Eggplant Newsletter* No.16 : 35-41.
- Luis Arteaga M, Arnedo Andres M & Gil Ortega R 1997 New potato virus Y pathotype in pepper. *Capsicum & Eggplant Newsletter* No.17 : 85-86.
- Marshall D E 1997 Designing a pepper for mechanical harvesting. *Capsicum & Eggplant Newsletter* No.16 : 15-27.
- Marull J, Pinochet J & Rodriguezkabana R 1997 Agricultural and municipal compost residues for control of root knot nematodes in tomato and pepper. *Compost Science & Utilization* 5 (1) : 6-16.
- Matsui K, Shibata Y, Tateba H, Hatanaka A & Kajiwara T 1997 Changes of lipoxygenase and fatty acid by droperoxide lyase activities in bell pepper fruits during maturation. *Bioscience, Biotechnology and Biochemistry* 61 (1) : 199-201.
- Mercado J A, Trigo M M, Reid M S, Valpuesta V & Quesada M A 1997 Effect of low temperature on pepper pollen morphology and fertility: evidence of cold induced exine alterations. *Journal of Horticultural Science* 72 (2) : 317-327.
- Monma S & Sakata Y 1997 Screening of *Capsicum* accessions for resistance

- to cucumber mosaic virus. Journal of Japanese Society for Horticultural Science 65 (4) : 769-777.
- Munshi A D & Rajeev Sharma 1997 Nucleus seed production technique of chillies. Spice India 10 (11) : 2-3.
- Nalini N, Sabitha K, Chitra S, Viswanathan P & Venugopal P Menon 1997 Histopathological and lipid changes in experimental colon cancer: Effect of coconut kernel (*Cocos nucifera* Linn.) and *Capsicum annuum* Linn. red chilli powder. Indian Journal of Experimental Biology 35 (9) : 964-972.
- Palau E & Torregrosa A 1997 Mechanical harvesting of paprika peppers in Spain. Journal of Agricultural Engineering Research 66 (3) : 195-203.
- Patel N C, Patel J J, Jayani D B & Patel J R 1997 Evaluation of insecticide schedules for controlling thrip (*Scirtothrips dorsalis*) infesting chilli. The Indian Journal of Agricultural Sciences 67 (2) : 75-77.
- Patnaik H P & Mohapatra S 1997 Effect of fertilizers on the influence of thrips and leaf curl in chilli under protected and unprotected conditions. Mysore Journal of Agricultural Sciences 31 (2) : 159-163.
- Peter K V 1997 Trends in production, cultivation, processing and storage of chillies. Spice India 10 (1) : 9-15.
- Prabhakar M & Naik L B 1997 Effect of supplemental irrigation and nitrogen fertilization on growth, yield, nitrogen uptake and water use of green chilli. Annals of Agricultural Research 18 (1) : 34-40.
- Ribeiro C S C, Lopes C A & Reischneider F J B 1997 Identification of sources of juvenile resistance in *Capsicum* spp. to *Phytophthora capsici*. Capsicum & Eggplant Newsletter No.17 : 101-102.
- Riley M K & Bosland P W 1997 Host specificity of United States tomato and chile isolates of *Verticillium dahliae*. Capsicum & Eggplant Newsletter No.17 : 98-100.
- Rosello S, Diez M J, Jorda C & Nuez F 1997 Utilization of *Capsicum* sp. resistance to TSWV in pepper breeding. Capsicum & Eggplant Newsletter No.17: 85-86.
- Schuerger A C, Brown C S & Stryjewski E C 1997 Anatomical features of pepper plants grown under red light emitting diodes supplemented by blue or far-red light. Annals of Botany 79 (3) : 273-283.
- Sethu K M P & Prabha T N 1997 a-D-mannosidase from *Capsicum annuum*. Phytochemistry 44 (3) : 383-389.
- Shiffriss C 1997 Male sterility in pepper. Euphytica 93 (1) : 83-89.
- Shimoda M, Wu Y, Nonaka S & Osajima Y 1997 Cluster analysis of GC data on oxygenated terpenes of young leaf and green fruit samples of Japanese pepper. Journal of Agricultural and Food Chemistry 45 (4) : 1325-1329.
- Siregar E B M & Sudarsono 1997 Shoot regeneration from hypocotyl segments of hot pepper mediated by non disarmed isolates of *Agrobacterium*. Capsicum & Eggplant Newsletter No.17 : 102-105.
- Sreenivasa M N 1997 Mycorrhiza, a boon for chilli cultivation. Spice India 10 (5) : 13-14.
- Srivalli T, Lakshmi N & Gupta C G 1997 Cytomorphological studies of some polyploid hybrids of capsicum. Capsicum & Eggplant Newsletter No.16 : 48-51.
- Thies J A, Mueller J D & Fery R L 1997 Effectiveness of resistance to southern root knot nematode in 'Carolina cayenne' pepper in green house, microplot and field tests. Journal of American Society for Horticultural Science 122 (2) : 200-205.
- Thomas Kurien 1997 Aflatoxin free chilli. Spice India 10 (3) : 2-3.
- Tony N & Bosland P W 1997 Meiotic chromosome study of *Capsicum lanceolatum*, another 13 chromosome species. Capsicum & Eggplant Newsletter No.16 : 42-43.
- Tsou S C S, Hong T L & Berke T 1997 Use of near infra red reflectance to measure capsaicinoids in pepper (*Capsicum* spp.). Capsicum & Eggplant Newsletter No.16 : 56-59.
- Usha Rani P 1997 Application of principal component analysis in chilli. Mysore Journal of Agricultural Sciences 31 (2) : 137-142.
- Usha Rani P 1997 Evaluation of chilli germplasm for root and their relation with fruit yield. Mysore Journal of Agricultural Sciences 31 (1) : 51-59.
- Usha Rani P 1997 Seed recovery, seed production, seed prediction and variability studies in chilli. The Madras Agricultural Journal 84 (3) : 139-143.
- Venkatesan B 1997 Damping off disease control in chilli. Spice India 10 (6) : 9.
- Vos J G M & Frinking H D 1997 Nitrogen fertilization as a component of integrated crop management of hot pepper under tropical lowland conditions. International Journal of Pest Management 43 (1) : 1-11.
- Wang J F & Berke T 1997 Sources of resistance to bacterial wilt in *Capsicum annuum*. Capsicum & Eggplant Newsletter No.17 : 91-93.
- Zuckermann H, Harren F J M, Reuss J & Parker D H 1997 Dynamics of acetaldehyde production during anoxia and post-anoxia in red bell pepper studied by photocautic techniques. Plant Physiology 113 (3) : 925-933.
- Cinnamon (*Cinnamomum* spp.)**
- Bhagwan Singh 1997 Clinical trial on amrycard capsules in the treatment of diabetes mellitus (*Madhumeha*). Indian Journal of Clinical Practice 1 (9) : 31-34.

Hili P, Evans C S & Veness R G 1997 Antimicrobial action of essential oils: The effect of dimethyl sulphoxide on the activity of cinnamom oil. Letters in Applied Microbiology 24 (4) : 269-276.

Krishnamoorthy B 1997 New cinnamon varieties. Spice India 10 (6) : 3-4.

Mollenbeck S, Konig T, Schreier P, Schwab W, Rajanoarivony J & Ranarivelo L 1997 Chemical composition and analysis of enantiomers of essential oils from Madagascar. Flavour and Fragrance Journal 12 (2) : 63-69.

Pugalendhi L, Selvi K Nageswari & Azhakiamanavalan R S 1997 YCD-I cinnamon. Spice India 10 (4) : 4.

### Clove (*Syzygium aromaticum*)

Krishnamoorthy B 1997 Clove (Hindi). Spice India 10 (1) : 2-4.

Krishnamoorthy B 1997 Dwarf clove. Spice India 10 (10) : 10.

Muratee S 1997 Clove - the spice with all things nice. Nutrition 31 (1) : 18-22.

### Coriander (*Coriandrum sativum*)

Lawrence B M Progress in essential oils. Perfumer & Flavorist 22 (1) : 49-56.

Loaiza J & Cantwell M 1997 Post harvest physiology and quality of cilantro (*Coriandrum sativum* L.). HortScience 32 (1) : 104-108.

Singh R, Singh S D, Yadav B L & Singh R 1997 Effect of nimbin coated urea on nitrogen uptake and utilization efficiency by coriander. Crop Research 13 (3) : 653-656.

### Cumin (*Cuminum cyminum*)

Gora D R, Meena N L, Shivran P L & Shivran D R 1997 Dry matter accumulation and nitrogen uptake in cumin as affected by weed control and time of N application. Indian Journal of Agronomy 44 (4) : 666-667.

Hugh & Colleen Gantzer 1997 Cumin: The prehistoric spice. Indian Spices 34 (1/2) : 5-6.

### Fennel (*Foeniculum vulgare*)

Choudary G R, Sharma R K & Jain M P 1997 Production technology of fennel. Spice India 10 (6) : 17-20.

Puneet Agnihotri, Dashora S L & Sharma R K 1997 Variability, correlation and path analysis in fennel. Journal of Spices and Aromatic Crops 6 (1) : 51-54.

### Fenugreek (*Trigonella foenum-graecum*)

Bhanu Pratap Singh 1997 Improved fenugreek cultivation. Spice India 10 (3) : 10-11.

Mir Z, Acharya S N, Mir P S, Taylor W G, Zaman M S, Mears G J & Gooneswardene L A 1997 Nutrient composition, in vitro gas production and digestability of fenugreek and alfalfa forages. Canadian Journal of Animal Sciences 77 (1) : 119-125.

Taylor W B, Zamen M S, Mir Z, Mir P S, Acharya S N, Mears G J & Elder J L 1997 Analysis of steroid sapogenins from amber fenugreek by capillary gas chromatography and combined gas chromatography mass spectrometry. Journal of Agricultural and Food Chemistry 45 (3) : 753-760.

Yoshikawa M, Murakami T, Komatsu H, Murakami N, Yamahara J & Matsuda H 1997 Medicinal food stuffs IV. Fenugreek seeds (1) : Structures of trigoneosides Ia, Ib, IIa, IIb, IIIa and IIIb, new furostanol saponins from the seeds of Indian *Trigonella foenum - graecum* L. Chemical & Pharmaceutical Bulletin 45 (1) : 81-87.

### Garlic (*Allium sativum*)

Bradely D 1997 The good thing about garlic breath. New Scientist 153 (2066) : 44.

Cohen P 1997 Add olive oil, lemon and a clove of garlic. New Scientist 154 (2078) : 6.

Fossen T & Anderson O M 1997 Malonated anthocyanins of garlic. Food Chemistry 58 (3) : 215-217.

Gargil P 1997 Successful therapy using garlic against a pathogenic yeast. British Journal of Phytotherapy 4 (3) : 121-122.

Geng Z & Lak B H S 1997 Aged garlic extract modulates glutathione redox cycle and superoxide dismutase activity in vascular endothelial cells. Phytotherapy Research 11 (1) : 54-56.

Ghosh D K, Ahlawat Y S & Dutta Gupta M 1997 Production of virus free garlic plants by thermotherapy and meristem tip culture. The Indian Journal of Agricultural Sciences 67 (12) : 591-594.

Keusgen M 1997 TLC analysis of *Allium sativum* constituents. Planta Medica 63 (1) : 93-94.

Lawson L D & Block E 1997 Comments on garlic chemistry: Stability of s-(2-propenyl) 2-propene-1 sulfinothioate (allicin) in blood, solvents and simulated physiological fluids. Journal of Agricultural and Food Chemistry 45 (2) : 542.

Mahendran P P & Kumar N 1997 Influence of NPK and micronutrients on rubberisation of garlic. Spice India 10 (2) : 18-20.

Malik M N, Fenko M D, Shiekh A M & Wisniewski H M 1997 Isolation of a tocopherol (Vitamin E) from garlic. Journal of Agricultural and Food Chemistry 45 (3) : 817-820.

- Martin N, Bardisa L, Pantoja C, Barra E, Demetrio C, Valenzuela J, Barrios M & Sepulveda M J 1997 Involvement of calcium in the cardiac depressant actions of a garlic dialysate. *Journal of Ethnopharmacology* 55 (2) : 113-118.
- Mason J R & Linz G 1997 Repellency of garlic extract to European starlings. *Crop Protection* 16 (2) : 107-109.
- Pezzutti A & Crapiste G H 1997 Sorptional equilibrium and drying characteristics of garlic. *Journal of Food Engineering* 31 (1) : 113.
- Rapier S, Breheret S, Talou T & Bessiere J M 1997 Volatile flavour constituents of fresh *Marasmius alliaceus* (Garlic Marasmius). *Journal of Agricultural and Food Chemistry* 45 (3) : 820-826.
- Sadaria S G, Malavia D D, Khanpara V D, Dudhatra M G, Vyas M N & Mathukia R K 1997 Irrigation and nutrient requirement of garlic under South Saurashtra region of Gujarat. *Indian Journal of Agricultural Sciences* 67 (9) : 402-404.
- Shukla A, Pathak S C & Agrawal R K 1997 Evaluation of some plant extracts as repellents against shoot and fruit borer, *Earias vittella* Fab. in okra crop. *Geobios* 24 (1) : 35-39.
- Smeets K, Van Damme E J M, Verhaert P, Barre A, Rouge P, Van Leuren F & Peumans W J 1997 Isolation characterisation and molecular cloning of the mannose binding lectins from leaves and roots of garlic. *Plant Molecular Biology* 33 (1) : 223-235.
- Smeets K, Van Damme E J M & Peumans W J 1997 Developmental regulation of lectin and alliinase synthesis in garlic bulbs and leaves. *Plant Physiology* 113 (3) : 765-773.
- Velisek J, Kubek R & Davidek J 1997 Chemical composition and classification of culinary and pharmaceutical garlic based products. *Zeitschrift Fur Lebensmittel Unterschung und Forschung A* 204 (2) : 161.
- Ginger (*Zingiber officinale*)**
- Bone K 1992 Ginger. *British Journal of Phytotherapy* 4 (3) : 110-120.
- Dai Y, Kou J P & Liu L H 1997 Anti-allergic effect of an aqueous extract of Wu-Hu-Tang. *Journal of Ethnopharmacology* 55 (2) : 127-132.
- Jayachandran B K & Nizam S A 1997 Shade response of *Phyllosticta* leaf spot in ginger. *Spice India* 10 (12) : 16-17.
- Kanjilal P B, Sarma M N, Siddique I H, Kotoky R, Pathak M G & Singh R S 1997 Yield and quality of ginger grown in Nagaland, India. *Journal of Spices and Aromatic Crops* 6 (1) : 43-47.
- Pranje P 1997 Evaluation of topical applications of herbal formulations in *Aene vulgaris*: a single-blind randomised comparative study. *Journal of Medicinal*

- and Aromatic Plant Sciences
- and Aromatic Plant Sciences 19 (2) : 414-418.
- Remashree A B, Sherlja K K, Unnikrishnan K & Ravindran P N 1997 Histological studies on ginger rhizome (*Zingiber officinale* Rosc.). *Phytomorphology* 47 (1) : 67-75.
- Large cardamom (*Amomum subulatum*)**
- Abraham V A 1997 Large cardamom disease control. *Spice India* 10 (8) : 23-24.
- Srinivasa H S 1997 Disease control of large cardamom. *Spice India* 10 (3) : 16-17.
- Mustard (*Brassica* spp.)**
- Beena A Khan, Annie Abraham & Leelamma S 1997 Anti oxidant effects of curry leaf and mustard seeds, *Brassica juncea* in rats fed with high fat diet. *Indian Journal of Experimental Biology* 35 (2) : 148-151.
- Bijan K Mandal, Arun K Barik, Tapan K Jana, Sanjay Saha & Asok Saha 1997 Comparative suitability of Indian mustard in intercropping with lentil (*Lens culinaris*) and gram (*Cicer arietinum*) under rainfed condition. *The Indian Journal of Agricultural Sciences* 67 (3) : 102-106.
- Blaylock M J, Salt D E, Dushenkov S, Zakharova O, Gussman C, Kapulnik Y, Ensley B D & Raskin I 1997 Enhanced accumulation of Pb in Indian mustard by soil-applied chelating agents. *Environmental Science and Technology* 31 (3) : 860-866.
- Bora P C 1997 Effect of gypsum and lime on performance of *Brassica* varieties under rainfed conditions. *Indian Journal of Agronomy* 42 (1) : 155-158.
- Chen B Y, Cheng B F, Liu H L & Fu T D 1997 The Chinese mustard resources. *Crucifera Newsletter* No. 19: 7-8.
- Chung S K, Osawa T & Kawakishi S 1997 Hydroxyl radical scavenging effects of spices and scavengers from brown mustard. *Bioscience, Biotechnology and Biochemistry* 61 (1) : 118-123.
- Deekshitulu V V R & Subbaiah G 1997 Nitrogen sulphur requirement of Indian mustard clayey soils of Krishna-Godavari zone of Andhra Pradesh. *The Indian Journal of Agricultural Sciences* 67 (10) : 483-485.
- Dileep Kachroo & Arvind Kumar 1997 Nitrogen and sulphur fertilization in relation to yield attributes and seed yield of Indian mustard. *Indian Journal of Agronomy* 42 (1) : 145-148.
- Dileep Kachroo & Arvind Kumar 1997 Nitrogen and sulphur fertilization in relation to yield attributes and seed yield of Indian mustard. *Indian Journal of Agronomy* 42 (1) : 145-148.
- Getinet A, Rakow G, Raney J P & Downey R K 1997 The inheritance of erucic

- acid content in Ethopian mustard. Canadian Journal of Plant Science 77 (1) : 33-43.
- Gurjar B S & Chauhan D V S 1997 Yield attributes and seed yield of Indian mustard as influenced by varieties, fertility levels and spacing in Harsi Command Area. Indian Journal of Agronomy 42 (1) : 142-145.
- Gururaja Rao G & Yadav R K 1997 Growth and yield of Indian mustard as influenced by foliar application of potassium on saline black soils. The Indian Journal of Agricultural Sciences 67 (6) : 277-280.
- Hoking P J, Kirkegaard J A, Angus J F, Gibson A H & Koetz E A 1997 Comparison of canola, Indian mustard and Linola in two contrasting environments. 1. Effects of nitrogen fertilizer on dry matter production, seed yield and seed quality. Field Crops Research 49 (2-3) : 107-127.
- Irvine D A, Earley J P, Cassidy D P & Harvey S P 1997 Biodegradation of sulfur mustard hydrolysate in the sequencing batch reactor. Water Science and Technology 35 (1) : 67-75.
- Jaggi R C & Sharma D K 1997 Effect of sulphur and phosphorus on yield and uptake by Indian mustard. Indian Journal of Agronomy 42 (2) : 352-356.
- Khafi H R, Porwal B L, Mathukia R K & Malavia D D 1997 Effect of nitrogen, phosphorus and foliar applied agro-chemicals on Indian mustard. Indian Journal of Agronomy 42 (1) : 152-154.
- Lekh Raj, Singh V P, Prakash Kumar & Berwal K K 1997 Stability analysis in reproductive traits in rapeseed, Indian mustard and Ethopian mustard. The Indian Journal of Agricultural Sciences 67 (4) : 168-171.
- Marcone M F, Yada R Y, Aroonkamonsri W & Kakuda Y 1997 Physio chemical properties of purified isoforms of the 12S seed globulin from mustard seed. Bioscience, Biotechnology and Biochemistry 61 (1) : 65.
- Moodie M, Finch R P & Marshall G 1997 Analysis of genetic variation in wild mustard using molecular markers. Weed Science 45 (1) : 102-108.
- Patel M G & Patel J R 1997 Relation between insect damage and yield of Indian mustard sown on different dates in Gujarat. The Indian Journal of Agricultural Sciences 67 (4) : 157-159
- Patel R H & Meisher T G 1997 Effect of farmyard manure, nitrogen and source of fertilizer on growth, yield attributes and yield of Indian mustard. The Indian Journal of Agricultural Sciences 67 (6) : 237-241.
- Prasad S N, Ratan Singh & Chauhan V 1997 Intercropping of gram with Indian mustard and linseed on conserved moisture in South-eastern Rajasthan. The Indian Journal of Agricultural Sciences 67 (8) : 287-291.
- Ravender Singh & Bhargava G P 1997 Conjunctive use of brackish water for raising Indian mustard on Fluventic Eutrochrept and Vertic Ustochrept soils of Western India. The Indian Journal of Agricultural Sciences 67 (1) : 42-44.
- Sadhu A C, Malavia D D, Mathukia R K & Khanpara V D 1997 Water and nutrient management in Indian mustard and their residual effect on rainy season groundnut. Indian Journal of Agronomy 42 (2) : 342-347.
- Samui R C & Pintoo Bandopadhyay 1997 Effect of source, level and method of application of sulphur on Indian mustard. The Indian Journal of Agricultural Sciences 67 (8) : 305-308.
- Samiullah & Khan N A 1997 Improving performance of *Brassica juncea* cultivars by seed treatment with pyridoxine. New Zealand Journal of Crop and Horticultural Science 25 (1) : 43-49.
- Sanjeev Kumar, Jagrup Singh & Dhingra K K 1997 Leaf area index relationship with solar-radiation interception and yield of Indian mustard as influenced by plant population and nitrogen. Indian Journal of Agronomy 42 (2) : 348-351.
- Sharma S K, Ram Mohan Rao D S & Singh D P 1997 Effect of crop geometry and nitrogen on yield and attributes of *Brassica* species. Indian Journal of Agronomy 42 (2) : 357-360.
- Singh A K, Singh D V & Chauhan L S 1997 Screening for sources of resistance in rapeseed and Indian mustard for rot caused by *Sclerotinia sclerotiorum*. The Indian Journal of Agricultural Sciences 67 (7) : 324-325.
- Sweeden M B & McLeod P J 1997 Aphicide persistence on spinach and mustard greens. Journal of Economic Entomology 90 (1) : 195-199.
- Tejver Singh Tomer, Subey Singh, Sandeep Kumar & Savita Tomer 1997 Response of Indian mustard to nitrogen, phosphorous and sulphur fertilization. Indian Journal of Agronomy 42 (1) : 148-151.
- Tripathi M L, Kurmvanshi S M & Namdeo K N 1997 Effect of starch polymer and N-triacontanol on growth and yield of Indian mustard. Indian Journal of Agronomy 42 (1) : 194-195.
- Velasco L, Fernandez Martinez J M & Deltaro A 1997 Induced variability for C18 unsaturated fatty acids in Ethopian mustard. Canadian Journal of Plant Science 77 (1) : 91.
- Velasco L, Fernandez Martinez J M & Deltaro A 1997 Use of near infrared reflectance spectroscopy to screen Ethopian mustard for seed weight. Agronomy Journal 89 (1) : 151.
- Verma U N, Pal S K, Singh M K & Thakur R 1997 Productivity, energetics and competition function of wheat + Indian mustard intercropping under varying fertilizer level. Indian Journal of Agronomy 42 (2) : 201-204.

Yadav K S & Yadav N S 1997 Nutrient uptake and yield of Indian mustard as influenced by sowing time and irrigation. Indian Journal of Agronomy 42 (1) : 159-161.

Yadav R P, Yadav K S, Srivastava U K & Rakesh K Sharma 1997 Efficiency of isoproturon for weed control in Indian mustard. Indian Journal of Agronomy 42 (1) : 162-164.

#### Nutmeg (*Myristica fragrans*)

Krishnamoorthy B 1997 A super nutmeg selection. Spice India 10 (9) : 2-4.

#### Oregano (*Origanum vulgare*)

Kokkini S, Karousou R, Dardioti A, Krigas N & Lanaras T 1997 Autumn essential oils of Greek oregano. Phytochemistry 44 (5) : 883-887.

Zheng S, Wang X, Gao L & Shen X 1997 Studies on the flavonoid compounds of *Origanum vulgare* L. Indian Journal of Chemistry 36B (1) : 104-106.

#### Parsley (*Petroselinum crispum*)

Eckeykaltenbach A, Kiefer E, Grosskopf E, Ernst D & Sandermann H 1997 Differential transcript induction of parsley pathogenesis - related proteins and of a small heat shock protein by ozon and heat shock. Plant Molecular Biology 33 (1) : 343-351.

Grimmig B & Matern U 1997 Structure of the parsley caffeoyl - CoA O-methyltransferase gene harbouring a novel elicitor responsive cis acting element. Plant Molecular Biology 33 (1) : 323-343.

#### Rosemary (*Rosmarinus officinalis*)

Andrade P, Ferreres F, Gil M I & Tomas - Barberan F A 1997 Determination of phenolic compounds in honeys with different floral origin by capillary zone electrophoresis. Food Chemistry 60 (1) : 79-84.

Arnold N, Valentini G & Bellomana B 1997 Comparative study of the essential oils from *Rosmarinus eriocalyx* Jordan & Fourr from Algeria and *R. officinalis* L. from other countries. Journal of Essential Oil Research 9 (2) : 167-175.

Basaga H, Tekkaya C & Acikel F 1997 Antioxidative and free radical scavenging properties of rosemary extract. Food Science and Technology 30 (1) : 105-109.

Domokos J, Hethelyi E, Palinkas J & Szirmai S 1997 Essential oil of rosemary of Hungarian origin. Journal of Essential Oil Research 9 (1) : 41-45.

Mateo R & Bosch-Reig F 1997 Sugar profiles of Spanish unifloral honeys. Food Chemistry 60 (1) : 33-41.

Matsunaga K, Lu X C, Yasuda H, Ito M, Takiguchi T & Ohizuni Y 1997 Effect of Chinese and Paraguayan medicinal plants on the duration of immobility of mice in the forced swimming test. Natural Medicines 51 (1) : 63-66.

Milhau G, Valentin A, Benoit F, Mallie M, Bastide J M, Pelissier Y & Bessiere J M 1997 In vitro anti malarial activity of eight essential oils. Journal of Essential Oil Research 9 (3) : 329-333.

Pearson D A, Frankel E N, Aeschbach R & German J B 1997 Inhibition of endothelial cell mediated oxidation of low-density lipoprotein by rosemary and plant phenolics. Journal of Agricultural and Food Chemistry 45 (3) : 578-582.

Ravid U, Putievsky E, Ratzir L, Lewinsohn E & Dudai N 1997 Identification of (IR) (+)- verbenone in essential oils of *Rosmarinus officinalis* L. Flavour and Fragrance Journal 12 (2) : 109-112.

Singletary K W & Rokusek J T 1997 Tissue specific enhancement of xenobiotic detoxification enzymes in mice by dietary rosemary extract. Plant Foods for Human Nutrition 50 (1) : 47-53.

#### Saffron (*Crocus sativus*)

Dufresne C, Cormier E & Dorion S 1997 In vitro formation of crocetin glucosyl esters by *Crocus sativus* callus extract. Planta Medica 63 (2) : 150-153.

Garcia E 1997 Salivating for saffron - Spain starts to look for the genes that make the spice. Scientific American 276 (4) : 24-25.

Lattoo S K, Sapru Dhar R & Dhar A K 1997 Temporal variation in saffron. Journal of Spices and Aromatic Crops 6 (1) : 57.

Straubinger M, Jezussek M, Waibel R & Winterhalter P 1997 Novel glycosidic constituents from saffron. Journal of Agricultural and Food Chemistry 45 (5) : 1678-1681.

Tarantilis P A & Polissiou M G 1997 Isolation and identification of the aroma components from saffron. Journal of Agricultural and Food Chemistry 45 (2) : 459-463.

Van Calsteren M R, Bissonnette M C, Cormier F, Dufresne C, Ichi T, Le Blane J C Y, Perreault D & Roewar I 1997 Spectroscopic characterization of crocetin derivatives from *Crocus sativus* and *Gardenia jasminoides*. Journal of Agricultural and Food Chemistry 45 (4) : 1055-1062.

#### Thyme (*Thymus vulgaris*)

Tarayre M & Thompson J D 1997 Population genetic structure of the gynodioecious *Thymus vulgaris* L. in Southern France. Journal of Evolutionary Biology 10 (2) : 157-175.

Venskutonis P R 1997 Effect of drying on the volatile constituents of thyme and sage. Food Chemistry 59 (2) : 219-229.

### **Turmeric (*Curcuma* spp.)**

- Alkofahi A, Batshoun R, Owais W & Najib N 1997 Biological activity of some Jordanian medicinal plant extracts. Pt. II. *Fitoterapia* 68 (2) : 163-168.
- Price L C & Buescher R W 1997 Kinetics of alkaline degradation of the food pigments curcumin and curcuminoids. *Journal of Food Science* 62 (2) : 267-270.
- Saini G S 1997 New technology for turmeric cultivation (Hindi). *Spice India* 10 (1) : 14-18.
- Saroj Kumar Jha 1997 Kandhamal - The paradise of turmeric in Orissa. *Spice India* 10 (6) : 2.
- Sasikumar B 1997 A weak and awkward patent - The turmeric patent. *Indian Spices* 34 (1/2) : 17.
- Selvaraj P K, Krishnamoorthy V V, Manickasundaram James Martin G & Ayyaswamy M 1997 Effect of irrigation schedules and nitrogen levels on the yield of turmeric through drip irrigation. *The Madras Agricultural Journal* 84 (6) : 347-348.
- Semwal A D, Sharma G K & Arya S S 1997 Antioxygenic activity of turmeric in sunflower oil and ghee. *Journal of Food Science and Technology* (Mysore) 34 (1) : 67-70.
- Thampi P S S 1997 The wonderland of turmeric. *Spice India* 10 (4) : 5.

### **Vanilla (*Vanilla* spp.)**

- Kauzinger A, Juchelka D & Mosandl A 1997 Progress in the authenticity assessment of vanilla 1. Inflation of authenticity profiles. *Journal of Agricultural and Food Chemistry* 45 (5) : 1752-1757.
- Remaud G S, Martin Y L, Martin G G & Martin G J 1997 Detection of sophisticated adulterations of natural vanilla flavours and extracts: Application of the SNIF-NMR method to vanillin and p-hydroxybenzaldehyde. *Journal of Agricultural and Food Chemistry* 45 (3) : 859-866.