

## **Spices Bibliography - 1994 (Part II)**

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### **Spices - General**

- Balakrishnan K V 1994 Green spice oleoresins. *Indian Spices* 18 (2&3) : 17.
- Balakrishnan Nair R 1994 Flavourings. Spices - their application and role in meat products. *Meat Focus International* 3 (10) : 417-412.
- Chelladurai A S S 1994 Spices in homeopathy medicines. *Indian Spices* 18 (2&3) : 21-22.
- George C K 1994 Indian spices export scenario. *Spice India* 7 (11) : 5-10.
- George C K 1994 Spice industry : a domestic and global overview. *Indian Horticulture* 39 (3) : 17-20.
- George C K 1994 Ensuring quality of spice exports - example of India. *International Trade Forum* No.2 : 14-15.
- Giese J 1994 Modern alchemy : use of flavors in food. *Food Technology (Chicago)* 48 (2) : 106-108.
- Hall Brierley J 1994 Spices : The story of Indonesia's spice trade. Oxford University Press, Kuala Lumpur, Malaysia.
- Joe B & Lokesh B R 1994 Role of capsaicin, curcumin and dietary n-3 fatty acids in lowering the generation of reactive oxygen species in rat peritoneal macrophages. *Biochimica et Biophysica Acta Molecular Cell Research* 1224 (2) : 255-263.
- Koshy John 1994 Organic production for spices in export captive forms. *Spice India* 7 (10) : 2-7.
- Krishnamoorthy B & Rema J 1994 Tree spices : crop improvement. *Spice India* 7 (11) : 24-31.
- Li T S C 1994 Use of stinging nettle as a potential organic fertilizer of herbs. *Journal of Herbs, Spices and Medicinal Plants* 2 (2) : 93-94.
- Manju Philip & Rohini Iyer 1994 Comparative developmental studies of two fungi forming vesicular arbuscular association with ginger and black pepper. *Journal of Plantation Crops* 22 (2) : 104-110.

- Md. Abdul Khader & Peter G B Vedamuthu 1994 Recent advances in seed spices in Tamil Nadu. Spice India 7 (7) : 12-15.
- Meena M R & Sethi V 1994 Antimicrobial activity of essential oils from spices. Journal of Food Science and Technology (Mysore) 31 (1) : 68-70.
- Menon K P G 1994 Export opportunities for value added spices. Spice India 7 (8) : 14-18.
- Nirmal Babu K & Ravindran P N 1994 Applications of plant cell and culture in spices. Spice India 7 (11) : 20-24.
- Nkama I, Badau M H, Collison E K, Mian W, Igene JO & Negbenebor CA 1994 Microflora of some dried spices and condiments sold in Maiduguri market, Nigeria. Journal of Food Science and Technology 31 (5) : 420-423.
- Padmakala Menon 1994 Spices and herbs in beauty therapy. Indian Spices 31 (4) : 10-11.
- Pande A & Bangale S 1994 Mycoflora associated with umbelliferous plant parts used in Ayurvedic medicines. Journal of Economic and Taxonomic Botany 18 (1) : 83-86.
- Peter K V 1994 Gearing up spices research to meet the emerging challenges. Indian Horticulture 39 (3) : 7-10.
- Pistrick K, Loumeyem M & Haddad M 1994 Field studies of plant genetic resources in South Tunisia 1993. Plant Genetic Resources News letter No. 98 : 13-17.
- Porter N G & Lammerink J P 1994 Effect of temperature, on the relative densities of essential oils and water. Journal of Essential Oil Research 6 (3) : 269-277.
- Reddy A C P & Lokesh B R 1994 Studies on anti - inflammatory activity of spice principle and dietary n-3 polyunsaturated fatty acids on carrageenan induced inflammation in rats. Annals of Nutrition and Metabolism 38 (6) : 349-359.
- Rethinam P, Edison S, Sadanandan AK & Johny AK 1994 Major achievements of AICRP on spices. Indian Cocoa, Areca nut and Spices Journal 18 (1) : 16-21.
- Sadanandan A K 1994 'Doubling our production of spices': aiming through infrastructure spread and research. AICRP Spices. Indian Horticulture 39 (3) : 10-17.
- Sadanandan AK & Johny AK 1994 Research highlights of AICRPS. Spice India 7 (2) : 11-20.
- Sharma R N 1994 Quality upgradation of spices and condiments : role of Bureau of Indian Standards. Indian Cocoa, Areca nut and Spices Journal 18 (2) : 56-57.

- Sheriff P A 1994 Spices Bibliography 1992. Journal of Spices and Aromatic Crops 3 (1) : 56-97.
- Sheriff P A 1994 Spices Bibliography 1993. Journal of Spices and Aromatic Crops 3 (2) : 170-198.
- Skelly C J 1994 Dictionary of Herbs, Spices, Seasonings and Natural Flavorings. Garland Publishing, USA.
- Sreekumar B 1994 Production and export of seed spices with special reference to Rajasthan. Spice India 7 (7) : 6-9.
- Sukumaran Achary K 1994 Processing and preservation of spices. Spice India 7 (12) : 6-14.
- Tantaoui - Elaraki A & Bartine H 1994 Fungal load of selected spices and their contamination by toxigenic *Aspergillus* species. Microbiologie, Aliments, et Nutrition 12 (2) : 231-236.
- Thankamani C K, Sivaraman K, Kandiannan K & Peter K V 1994 Agronomy of tree spices (clove, nutmeg, cinnamon and allspice) : a review. Journal of Spices and Aromatic Crops 3 (2) : 105-123.
- Thomas K G, Abraham C S & Velappan E 1994 Development of seed spices. Spice India 7 (7) : 2-6.
- Varun C L, Suchita Singh, Pandey K P & Singh B 1994 Influence of companion cropping of spices on the incidence of early shoot borer in sugarcane. Indian Sugar 44 (1) : 21-22.
- Veenakumari K, Prashanth Mohanraj & Ranganath HR 1994 New records of insect and mite pests of spice crops in Andaman Islands, India. Journal of Spices and Aromatic Crops 3 (2) : 164-166.
- Velappan E 1994 An integrated programme for spices development in India during VIII Five Year Plan. Indian Cocoa Areca nut and Spices Journal 18 (1) : 1-4.
- Yitzhaki A 1994 A computerised irrigation and fertilization system for spices. Hassadeh 74 (7) : 712, 747.
- Allspice (*Pimenta dioica*)**
- Haldankar P M, Nagwekar D D & Gunjate R T 1994 Effect of Paclobutrazol on induction of flowering and yield performance in allspice. Indian Cocoa, Areca nut and Spices Journal 18 (3) : 89-91.
- Nel A 1994 Allspice - the spice with three flavours. Inligtingsbulletin - Instituut vir Tropiese en Subtropiese Gewasse No. 259, 10.
- Basil (*Ocimum basilicum*)**
- Dutky E M & Wolkow P 1994 First report of *Fusarium* wilt of basil in Maryland. Plant Disease 78 (12) : 1217.

- Elia A, Damato G & Bianco V A 1994 Topping time, yield and quality of florence fennel and basil. *Acta Horticulturae* No. 362 : 75-82.
- Gupta S C 1994 Genetic analysis of some chemotypes in *Ocimum basilicum* var. *glabratum*. *Plant Breeding* 112 (2) : 135-140.
- Holcomb G E & Reed M J 1994 First report of *Fusarium* wilt of basil in Louisiana. *Plant Disease* 78 (12) : 1218.
- Keinath A P 1994 Pathogenecity and host range of *Fusarium oxysporum* from sweet basil and evaluation of disease control methods. *Plant Disease* 78 (12) : 1211-1216.

Kimura M, Ichimura M & Tomitakay 1994 Effects of watering on growth, yield, essential oil concentration and evapotranspiration of sweet basil. *Japanese Journal of Tropical Agriculture* 38 (1) : 65-72.

Thoppil J E & Jose J 1994 Intrapecific genetic control of major essential oil constituents in *Ocimum basilicum* Linn. *Nucleus (Calcutta)* 37 (1/2) : 30-33.

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

Agarwal A K, Singh M, Gupta N, Saxena R, Puri A, Verma A K, Saxena R P, Dubey C B & Saxena K C 1994 Management of giardiasis by an immuno-modulatory herbal drug pippali rasayana. *Journal of Ethnopharmacology* 44 (3) : 143-146.

Anandaraj M & Sarma Y R 1994 Effect of vesicular arbuscular mycorrhiza on rooting of black pepper. *Journal of Spices and Aromatic Crops* 3 (1) : 39-42.

Anandaraj M & Sarma Y R 1994 Biological control of black pepper diseases. *Indian Cocoa, Areacanut and Spices Journal* 18 (1) : 22-23.

Anandaraj M, Sarma Y R & Ramachandran N 1994. *Phytophthora* root rot of black pepper in relation to age of the host and its culmination in foot rot. *Indian Phytopathology* 47 (2) : 203-206.

Anil Issac, Roy N C, Raju E Y, Joseph Mathew, Thomas Mathulla & Mathew A G 1994 Pungent principles of pepper. *International Pepper News Bulletin* 18 (2) : 7-12.

Chandrasekhar R 1994 Pepper in Assam. *Spice India* 7 (6) : 2-3.

Chaudhury R & Chandel K P S 1994 Germination studies and cryopreservation of seeds of black pepper - a recalcitrant species. *Cryo-letters* 15 (3) : 145-150.

Devasahayam S 1994 Management of insect pests of black pepper. *Spice India* 7 (8) : 27-31.

Devasahayam S & Abdulla Koya K M 1994 Natural enemies of major insect pests of black pepper in India. *Journal of Spices and Aromatic Crops* 3 (1) : 50-55.

Devasahayam S & Abdulla Koya K M 1994 Field evaluation of insecticides for the control of mussel scale (*Lepidosaphes piperis* Gr.) on black pepper (*Piper nigrum* L.). *Journal of Entomological Research* 18 (3) : 213-215.

Devasahayam S & Abdulla Koya K M 1994 Seasonal incidence of *Hexameris* sp. (Dor., Mermithidae) parasitising larvae of top shoot borer *Cydia hemidoxa* Meyr. (Lep., Tortricidae) on black pepper. *Journal of Applied Entomology* 117 (1) : 31-34.

Houghton P J, Astaniou A, Grange J M & Yates M 1994 Antibacterial activity (against *Plycobacterium tuberculosis*) of extracts and constituents of *Piper nigrum* and *Galipea officinalis*. *Journal of Pharmacy and Pharmacology* 46 (Suppl. 2) : 1042.

Ika Mustika, Alan Rachmat S & Sudradjat D 1994 The influence of organic matters on the growth of black pepper and antagonistic microorganisms. *International Pepper News Bulletin* 18 (2) : 19-24.

John M D & Jaiswal P K 1994 Physico-chemical characteristics of white pepper whole and powder. *Spice India* 7 (4) : 4-8.

Kandiannan K, Sivaraman K & Thankamani C K 1994 Growth regulators in black pepper production. *Indian Cocoa, Areacanut and Spices Journal* 18 (4) : 119-123.

Khapkin I S 1994 Prospects of using preparations from plants for regulating platelet aggregation. *Rastitel'nye Resursy* 30 (1&2) : 86-90.

Kurien S, Cheeran A & Babu N M 1994 Major pepper varieties on *Erythrina indica* live standard competition under different spacings. *Indian Cocoa, Areacanut and Spices Journal* 18 (3) : 75-79.

Mathew P G 1994 Nutrition of black pepper. *Spice India* 7 (10) : 9-14.

Mathew A G 1994 Starch in pepper. *International Pepper News Bulletin* 18 (3) : 6-8.

Mathew A G 1994 Blackening of pepper. *International Pepper News Bulletin* 18 (1) : 9-12.

Ong Foo Yong 1994 An overview of the principal patterns of the world supply and demand of pepper (*Piper nigrum*). *International Pepper News Bulletin* 18 (4) : 5-14.

Pandiarajan T, Varadharaju N & Gothandapani L 1994 Inclined belt separator for pepper. *Spice India* 7 (4) : 11.

Rachim Kartabratna 1994 The role of the Indonesian pepper in the world market. *International Pepper News Bulletin* 18 (1) : 13-19.

### *Spices bibliography*

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- Ramadasan A & Vasantha S 1994 Environmental stress reaction of black pepper. Spice India 7 (8) : 12-16.
- Ramana K V 1994 Efficacy of *Paecilomyces lilacinus* (Thom.) Samson in suppressing nematode infestation in black pepper. Journal of Spices and Aromatic Crops 3 (2) : 130-134.
- Ramana K V, Mohandas C & Santhosh J Eapen 1994 Plant parasitic nematodes and slow decline disease of black pepper. Technical Bulletin. National Research Centre for Spices, Calicut, Kerala.
- Ravindran P N & Nirmal Babu K 1994 Chemotaxonomy of South Indian *Piper*. Journal of Spices and Aromatic Crops 3 (1) : 6-13.
- Ravi Varma R T 1994 Pepper : Pioneering research at Panniyur. Spice India 7 (4) : 2-3.
- Remila K H & Neelakandan N 1994 Morphological abnormalities due to phyllody disease of black pepper. Phytomorphology 44 (1-2) : 111-114.
- Rifaheri & Tatang Hidayat 1994 Effects of treatments prior to sun drying on black pepper quality. International Pepper News Bulletin 18 (3) : 9-12.
- Sarma Y R, Anandaraj M & Rajan P 1994 *Phytophthora* : a threat to black pepper. Spice India 7 (11) : 70-14.
- Sasikumar B & Veluthambi K 1994 Kanamycin sensitivity of cultured tissues of *Piper nigrum* L. Journal of Spices and Aromatic Crops 3 (2) : 158-160.
- Sivakumar C & Wahid P A 1994 Effect of application of organic materials on growth and foliar nutrient content of black pepper. Journal of Spices and Aromatic Crops 3 (2) : 135-141.
- Sivaraman K, Thankamani C K & Kandiannan K 1994 Recent advances in the cultivation of pepper. Spice India 7 (8) : 7-12.
- Sreekumar B 1994 World supply and demand of white pepper. Spice India 7 (6) : 4-7.
- Thomas P P & Gopalakrishnan N 1994 A process for the production of unwrinkled dry ball shaped green pepper. International Pepper News Bulletin 18 (1) : 20-21.
- Unnikrishnan Nair P K, Mammootty K P, Sasikumaran S & Pillai V S 1994 *Phytophthora* foot rot of black pepper. A management study with organic soil amendments. International Pepper News Bulletin 18 (4) : 15-17.
- Caraway (*Carum carvi*)**
- Munshi A M, Zargar G H, Baba H & Singh T 1994 Cultivation of caraway should expand in Jammu and Kashmir. Indian Horticulture 39 (3) : 59-62.
- Putievsky E, Ravid U, Dudai N & Katzir I 1994 A new cultivar of caraway and its essential oil. Journal of Herbs, Spices and Medicinal Plants 2 (2) : 81-84.

### *Spices bibliography*

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- Rod J 1994 The effect of some herbs on soil infestation with clubroot. Ochrana Rostlin 30 (43) : 261-265.
- Toxopeus H & Lubberts H J 1994 Effect of genotype and environment on carvone yield and yield components of winter caraway in the Netherland. Industrial Crops and Products 3 (1/2) : 37-42.
- Wander J G N & Zwanepols S 1994 Culture of caraway. Proefstation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Netherland. No. 60, 40 pp.
- Zlatanov M 1994 Studies on phospholipid composition of glyceride oils of some representatives of the family Apiaceae. Fett Wissenschaft Technologie 96 (12) : 456-457.
- Cardamom (*Elettaria cardamomum*)**
- Chakravarthy A K 1994 Colouring pesticidal solutions for management of insect pests on cardamom. Spice India 7 (12) : 6-14.
- Eapen S J 1994 Effect of three granular pesticides on damage by thrips (*Sciothrips cardamomi* R.) in small cardamom. Journal of Entomological Research 18 (2) : 181-183.
- Govindaraju C, Venugopal M N & Sudharshan M R 1994 An appraisal of 'kokke kandu' - a new viral disease of small cardamom and 'katte' (mosaic) disease in Karnataka. Journal of Plantation Crops 22 (1) : 57-59.
- Hugh & Colleen Gantzer 1994 Cardamom : The contrary queen. Indian Spices 18 (2&3) : 18-19.
- International Plant Genetic Resources Institute 1994 Descriptions for cardamom. IPGRI, Italy, Rome.
- Jasvir Singh & Sudharshan M R 1994 Leaf beetle, *Lema fulimana* Jacoby : a pest of cardamom seedlings. Spice India 7 (10) : 18-21.
- Jasvir Singh, Tamil Selvan & Kumaresan D 1994 Record of soft scale (*Coccus hesperidium* Linn.) and its parasite (*Coccophagus ceroplastae* (Howard)) on cardamom. Journal of Spices and Aromatic Crops 3 (1) : 36-38.
- Korikanthimath V S & Rajendra Hegde 1994 Cardamom and arecanut mix-cropping system. Indian Cocoa, Areca nut and Spices Journal 18 (4) : 109-113.
- Kuriakose M J 1994 Increase cardamom yield by apiculture. Spice India 7 (5) : 6-12.
- Madhusoodanan K J, Kuruvilla K M & Radhakrishnan V V 1994 ICRI - 1 and ICRI - 2, two high yielding cardamom selections. Spice India 7 (5) : 2-5.
- Mohamad Mustafa M 1994 Trend, growth and stability in production and export of cardamom in India. Journal of Plantation Crops 22 (1) : 61-62.
- Rao Y S, Pradipkumar K, Mary Mathew K & Madhusoodanan K J 1994 Principles of plant tissue culture - cardamom. Spice India 7 (8) : 2-8.

- Suseela Bhai, Joseph Thomas & Naidu R 1994 Evaluation of carrier media for field application of *Trichoderma* sp. in cardamom growing soils. Journal of Plantation Crops 22 (1) : 50-52.
- Tamil Selvan M, Jasvir Singh, Varadarasan S and Jayaram B M 1994 Outbreak of hairy caterpillars in cardamom plantations. Spice India 7 (10) : 21-25.
- Velmurugan P 1994 Keep quality of cardamom. Spice India 7 (8) : 5-7.

**Celery (*Apium graveolens*)**

- Booij R & Meurs E J J 1994 Flowering in celeriac (*Apium graveolens* L. var. *rapaceum* (Mill) D C): effects of photoperiod. Scientia Horticulturae 58 (4) : 271-282.
- Chao J C & Huang M J 1994 Comparative research of shangnong yuquin celery and its parents. Journal of Shanghai Agricultural College 12 (3) : 205-209.
- Dyduch J 1994 Celery cultivation for spring to autumn harvest. Acta Horticulturae No.371 : 275-282.
- Davis M G K & Graefius E 1994 First record of *Aphis helianthi* (Homoptera : Aphididae) as a pest of celery. Great Lakes Entomologist 27 (2) : 69-77.
- Martignon G, Casarotti D, Venezia A, Schiavi M & Malorgio F 1994 Nitrate accumulatin in celery as affected by growing system and N content in the nutrient solution. Acta Horticulturae No.361 : 583-589.
- Wijk C A P van & Zwanepol S 1994 Culture of self balancing celery. Profestation voor de Akkerbouw en de Groenteteelt in de Vollegrond, Netherlands No.62. 50 pp.

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

- Abou Hadid A F, El-Beltagy A S & Medany M A 1994 The effect of air temperature on fruit yield of sweet pepper grown under plastic houses in Egypt. Acta Horticulturae No. 366 : 93-98.
- Abou Hadid A F & Eissa M M 1994 Daily air temperature and relative humidity regimes in relation to plastic houses and open field conditions in Egypt. Acta Horticulturae No.366 : 113-118.
- Abou Hadid AF, El-Shinaway M Z, El-Oksh I, Gomaa H & El - Beltagy A S 1994 Studies on water consumption of sweet pepper under plastic houses. Acta Horticulturae No. 366 : 365-371.
- Abou Hadid A F, El-Shinaway M Z, El-Beltagy A S & Burrage S W 1994 A comparative study between sweet pepper grown in nutrient film technique and rockwool under protected cultivation. Acta Horticulturae No.361 : 513-518.

- Akhtar M & Mahmood I 1994 Prophylactic and therapeutic use of oil cakes and leaves of neem and castor extract for the control of root knot nematode on chilli. Nematologia Mediterranea 22 (2) : 127-129.
- Allagui M B 1994 Pepper growing in Tunisia : present and future. Capsicum and Eggplant Newsletter No.13 : 27-13.
- Allagui M B 1994 *Phytophthora nicotianae* var. *parasitica* resistance ability of some pepper varieties. Capsicum and Eggplant Newsletter No. 13 : 93-96.
- Ando Y, Akasaka Y & Nakatani F 1994 Searching for *Phytophthora* blight resistant sweet pepper stock. Annual Report of the Society of Plant Protection of North Japan. No 45 : 58-59.
- Anju Gupta, Dharam Singh & Maheshwari V K 1994 Effect of containers on the viability of fungicide treated chilli seeds. Seed Research 20 (2) : 160-161.
- Anwar S A, Trudgill D L & Phillips M S 1994 The contribution of variation in invasion and development rates of *Meloidogyne incognita* to host status differences. Nematologica 40 (4) : 579-586.
- Aquino L D, Ragozzino Q A, Zoina A & Scala F 1994 P. R Protein induction in pepper varieties during local and systemic necrotic responses to different viruses. Rivista di Patologia Vegetale 4 (3) : 109-115.
- Aree Tudanca P & Lopez Corzana B 1994 Effect of use of drop (thidiazuron) of GA<sub>3</sub> and of maltose in the *in vitro* multiplication of *Capsicum annuum* and *Capsicum baccatum* from cotyledons. Capsicum and Eggplant Newsletter No. 13 : 68-71.
- Armstrong A M 1994 Insecticides to combat damage by *Anthonomus eugenii* Cano in pepper var. *cubanella* in Puerto Rico. Journal of Agriculture of the University of Puerto Rico 78 (1&2) : 23-31.
- Azuine M A & Bhide S V 1994 Adjuvant chemoprevention of experimental cancer :catechin and dietary turmeric in forestomach and oral cancer models. Journal of Ethnopharmacology 44 (3) : 211-217.
- Awasthi M D 1994 Studies on dissipation and persistence of pyrethroid residues on chilli fruits for safety constants. Pesticide Research Journal 6 (1) : 80-83.
- Banaras M, Lownds N K & Bosland P W 1994 Relationship of physical properties to postharvest water loss in pepper fruits (*Capsicum annuum* L.). Pakistan Journal of Botany 26 (2) : 321-327.
- Baruah A & Borua P K 1994 Somatic chromosome study of six locally grown cultivars of chilli. Journal of Assam Science Society 36 (2) : 104-111.
- Basak A B 1994 A comparative study on dry weight loss due to major fruit rot diseases of chilli. Chittagong University Studies, Science 18 (1) : 129-131.

*Spices bibliography*

- Basak A B 1994 Mycoflora associated with chilli seeds collected from Bogra District. Chittagong University Studies, Science 18 (1) : 121-123.
- Basak A B, Fakir G A & Mridha M A U 1994 Studies on the prevalence of six major fruit rot diseases of chilli at different stages of fruit development in Chittagong District. Chittagong University Studies, Science 18 (1) : 125-128.
- Benavente J, Munoz A & Heredia A 1994 Ionic permeabilities of different isolated fruit cuticles calculated by conductivity and membrane potential measurements. Zeitschrift fur Naturforschung, Section C. Biosciences 49 (9-10) : 615-618.
- Benoit F & Ceustersmans N 1994 Growing pepper on ecologically sound substrates. Acta Horticulturae No. 361 : 167-178.
- Bidari V B & Reddy H R 1994 A survey on mosaic viruses and their distribution in different chilli cultivars in Karnataka. Mysore Journal of Agricultural Sciences 28 (1) : 52-59.
- Carter J V, Palafox J T P & Islas R P 1994 Rainbow trout (*Oncorhynchus mykiss*) pigmentation bioassay using chilli extracts (in Spanish). Archivos Latinoamericanos de Nutricion 44 (4) : 252-256.
- Chander M S 1994 Biochemical properties associated with resistance to powdery mildew in chillies. Plant Disease Research 9 (1) : 103-104.
- Chiesa A, Attwell P & Stoppani M I 1994 Influence of container size on seedling quality and earliness of pepper. Horticultura Argentina 13 (33) : 1-6.
- Chitra S, Sabitha K, Nalini N & Menon V P 1994 Influence of red chilli on lipids and bile acids in different tissues in experimental colon cancer. Indian Journal of Experimental Biology 32 (11) : 793-796.
- Chod J, Chodova D, Kocova M & Jokes M 1994 Occurrence of alfalfa mosaic virus on red pepper and investigation of susceptibility of some cultivars with respect to Hills reaction activity and chlorophyll content. Zahradnictvi 21 (1) : 27-36.
- Czarnowski M 1994 Endogenous  $\text{CO}_2$  concentration and pericarp diffusion resistance to  $\text{CO}_2$  in sweet pepper fruits. Folia Horticulturae 6 (1) : 31-39.
- Demir I 1994 Changes in seed quality during seed development in tomato and pepper. Acta Horticulturae No. 366 : 221-227.
- Demir I & Ellis R 1994 The effects of priming on germination and longevity of sequentially harvested pepper seed lots. Turkish Journal of Agriculture and Forestry 18 (3) : 213-217.
- Deruere J, Bouvier F, Steppuhn J, Klein A, Camara B & Kuntz M 1994 Structure and expression of two plant genes encoding chromoplast-specific proteins: occurrence of partially spliced transcripts. Biochemical and Biophysical Research Communications 199 (3) : 1144-1150.

*Spices bibliography*

- Ettez R Z, Gul A & Tuzel Y 1994 Effects of various growing media on eggplant and pepper seedling quality. Acta Horticulturae No. 366 : 257-264.
- Esiyok D, Ozzambak E & Eser B 1994 The effect of stem pruning on the yield and earliness of greenhouse peppers. Acta Horticulturae No. 366 : 293-300.
- Falusi O A & Morakinyo J A 1994 Intra and interspecific by hybridization in the genus *Capsicum*. African Crop Science Journal 2 (2) : 169-171.
- Gatz A 1994 Callus formation and organogenesis from capsicum cotyledons in *in vitro* culture. Zeszyty Problemowe Postepow Nauk Rolniczych 414 : 379-386.
- Gatz A & Rogozinska J 1994 *In vitro* organogenetic potential of cotyledon and leaf explants of *Capsicum annuum* L. cv. Bryza. Acta Societas Botanicorum Poloniae 63 (3&4) : 255-259.
- Green S K & Kim J S 1994 Sources of resistance to viruses of pepper: a catalog. Technical Bulletin, Asian Vegetable Research and Development Center No. 20 : 64 pp.
- Gulshan Lal 1994 Pod and seed attributes of chilli plant C - 1 in response to varying levels of nitrogen and spacing. Seed Research 20 (2) : 96-98.
- Hajnalka L D & Hevesi M 1994 Results of breeding for resistance against bacterial diseases of paprika. Novenyvedelem 30 (12) : 574-576.
- Halbrendt J M & Jing G 1994 Nematode suppressive rotation crops for orchard renovation. Acta Horticulturae No. 363 : 49-56.
- Hobbs H A, Black L L, Johnson R R & Valverde R A 1994 Differences in reactions among tomato spotted wilt virus isolates to three resistant *Capsicum chinense* lines. Plant Disease 78 (12) : 1220.
- Houlne G, Schantz M L, Meyer B, Pozueta Romero J & Schantz R 1994 A chromoplast-specific protein in *Capsicum annuum*: characterization and expression of the corresponding gene. Current Genetics 26 (5/6) : 524-527.
- Huang Y T, Liu H L & Lu Y T 1994 The use of white burley tobacco for isolation of sweet pepper viruses. Plant Pathology Bulletin 3 (2) : 91-100.
- Huszka T & Kiss K F 1994 The effect of virus infection on the pigment content of spice pepper (*Capsicum annuum* L.). Capsicum and Eggplant Newsletter No.13 : 86-87.
- Jarvis W R, Khosla S K & Barrie S D 1994 *Fusarium* stem and fruit rot of sweet pepper in Ontario greenhouse. Canadian Plant Disease Survey 74 (2) : 131-134.
- Jeong C S, Yooke & Nagaoka M 1994 Effect of  $\text{CO}_2$  enrichment on net photosynthesis in *Capsicum annuum* L. Journal of the Korean Society for Horticultural Science 35 (6) : 581-586.

*Spices bibliography*

- John T D 1994 Guntur chilli market yard : the biggest in Asia. Spice India 7 (10) : 7-9.
- Kakibuchi K & Fujime Y 1994 Micromorphological observations of ovule development in some solanaceous vegetables. Technical Bulletin of the Faculty of Agriculture, Kagawa University 46 (2) : 71-77.
- Kousik C S, Sanders D C & Ritchie D F 1994 Yield of bell peppers as impacted by the combination of bacterial spot and a single hail storm : will copper sprays help ? Hort Technology 4 (4) : 356-358.
- Lakshmi N, Nalini P & Srivalli T 1994 Cytogenetical studies on some auto and asynaptic triploids obtained in an intervarietal cross male sterile xzob of *Capsicum annuum* L. Proceedings of the Indian National Science Academy, Part B, Biological Sciences 60 (2) : 151-156.
- Leedo H D & Hevesi M 1994 Possibilities of resistance to new bacterial disease in pepper (*Pseudomonas syringae* pv. *syringae*). Capsicum and Eggplant Newsletter No.131 : 90-92.
- Li P H 1994 Amelioration of chilling injury in chilling sensitive vegetables by mefluidide and GLK 8903. Acta Horticulturae No.323 : 355-362.
- Mani M T & Marimuthu T 1994 Effect of decomposed coconut coirpith, fungicides and biocontrol agents on damping off of chillies and dry root rot of blackgram. Indian Journal of Mycology and Plant Pathology 24 (1) : 20-23.
- Mathur Kamlesh Singh R D & Kalpana Bhatnagar 1994 *Leptosphaerulina trifolii* on chillies. Indian Phytopathology 47 (3) : 276-277.
- Mednyanszky Z S, Szabo A S & Simon J 1994 Effect of synergolux treatment on vegetables during storage. Acta Horticulturae No. 368 : 281-284.
- Monteiro A A 1994 Outlook on growing techniques of greenhouse solanaea in mild winter climate. Acta Horticulturae No.366 : 21-32.
- Nicola S & Basoccu L 1994 Pretransplant nutritional conditioning affects pepper seedling growth and yield. Acta Horticulturae No. 361 : 519-526.
- Nuez F, Diez M J, Rosello S, Lacasa A, Jorda E, Martin M & Costa J 1994 Genetic resistance to TSWV (tomato spotted wilt virus) in *Capsicum* spp. Capsicum and Eggplant Newsletter No.13 : 86-87.
- Padem H & Alan R 1994 The effects of some substrates and foliar fertilizers on growth and chemical composition of peppers under greenhouse conditions. Acta Horticulturae No. 366 : 453-460.
- Pakyurek A Y, Abak K, Sari N & Guler H Y 1994 Influence of mulching on earliness and yield of some vegetables grown under high tunnels. Acta Horticulturae No. 366: 155-160.

*Spices bibliography*

- Peter K V 1994 Production technology and package of practices in chilli. Spice India 7 (5) : 14-23.
- Peter K V 1994 Trend in production, cultivation, processing and storage of chillies, herbal and miscellaneous spices. Indian Cocoa Areacnut and Spices Journal 18 (1) : 5-9.
- Qian Z L, Ding L P & Cao S C 1994 Effect of low temperature stress on pepper (*Capsicum annuum*) seedling lipid peroxidation level and protective enzyme activity. Acta Horticulturae Sinica 21 (2) : 203-204.
- Ramalingam M S 1994 A chilli growers experience. Spice India 7-(6) : 8-9.
- Ramanathan A & Sivaprakasam K 1994 Effect of seed treatment with antagonists and fungicides on seed viability and seedling vigour of chilli. Seed Research 20 (2) : 134-137.
- Rylaski I, Aloni B, Karni L & Zaidman Z 1994 Flowering, fruitset, fruit development and fruit quality under different environmental conditions in tomato and pepper crops. Acta Horticulturae No. 366 : 45-55.
- Siti Aishah Hassan, Ramlan Z A & Inon S 1994 Influence of potassium fertiliser and mulching on growth and yield of chilli. Acta Horticulturae No. 369 : 311-317.
- Siwek P, Cebula S, Libik A & Mydlarz J 1994 The effect of mulching on change in microclimate and on the growth and yield of sweet pepper grown in plastic tunnels. Acta Horticulturae No. 366 : 161-167.
- Sreenivasa M N 1994 Biological deterrent activities of V A mycorrhiza and *Trichoderma harziannum* on *Sclerotium rolfsii* at different P-levels in chilli. Environment and Ecology 12 (2) : 319-321.
- Sreenivasa M N 1994 V A mycorrhiza in conjunction with organic amendments improve growth and yield of chilli. Environment and Ecology 12 (2) : 312 314.
- Stevanovic D, Mijatovic M, Obradovic A & Zdravkovic M 1994 Red pepper diseases and possibilities of preventing them by growing resistant varieties. Selekeija i Semenarstvo 1 (1) : 89-91.
- Taborda M L & Silveria H L 1994 Growth regulators and plant production in paprika pepper nurseries. Acta Horticulturae No. 366 : 265-269.
- Thompson A H, Botha W J, Uys MDR 1994 *Phytophthora capsici* (Oomycota: Fungi), a first report from South Africa. South African Journal of Botany 60 (5) : 257-260.
- Tsuda S, Fujisawa I, Hanada R, Hidaka S, Higo K I, Kameya-Iwaki M & Tomaru K 1994. Detection of tomato spotted wilt virus RNA in individual thrips by reverse transcription and polymerase chain reaction. Annals of the Phytopathological Society of Japan 60 (1) : 99-103.

*Spices bibliography*

- Ucko O 1994 Control of the western flower thrips (*Frankliniella occidentalis*) on bio-organic pepper (*Capsicum*) by mass trapping on blue sticky sheets. *Hassssadeh* 74 (9) : 959-961.
- Veeresham C, Kokate C K, Venkateswarlu V & Babu V R 1994 Influence of DL-DOPA and L-tyrosine on bioproduction of capsaicin in callus cultures of *Capsicum annuum* Linn. *Indian Journal of Experimental Biology* 32 (3) : 223-224.
- Vicchi V & Talame M 1994 Severe infections of TSWV on capsicum crops in greenhouses in Marche. *Informatore Agrario* 50 (20) : 71-73.
- Ward A R & Golob P 1994 The use of plant materials to control insect infestation of cured fish. *Tropical Science* 34 (4) : 401-408.
- Workman P J, Dymock J J, Martin N A & Ennis I L 1994 The potential for biological control of thrips in greenhouse capsicums using the predatory mite *Amblyseius cucumeris*. In: Poppy AJ(Ed.) *Proceedings of the 47th New Zealand Plant Protection Conference*, New Zealand, 9-11 August 1994. New Zealand Plant Protection Society, New Zealand Institute for Crop & Food Research Ltd., Auckland, New Zealand.
- Yang Y H 1994 Determination of capsaicin in pepper fruit by vanillin - sodium nitrite colorimetry. *Analytical Laboratory - Fenxi Shiyanshi* 13 (3) : 46-48.
- Zaharah A, Vimala P & Ismail E A E 1994 Management of bris sandy soil for chilli and tomato production in peninsular Malaysia. *Acta Horticulturae No. 369* : 299-305.
- Zhou Z X, Zhang Z J, Jig Y J, Jiang Q Y & Mi J J 1994 *In vitro* plant regeneration from cotyledon explants of *Capsicum annuum*. *Acta Agriculturae Boreali Sinica* 9 (2) : 59-63.
- Ziv O, Shifris E, Grinberg S, Fallik E & Sadeh A 1994 Control of *Leveillula taurica* mildew on pepper plants. *Hassssadeh* 74 (5) : 526-532.
- Cinnamon (*Cinnamomum* spp.)**
- Calderone N W, Shimanuki H & Allen-Wardell G 1994 An *in vitro* evaluation of botanical compounds for the control of the honeybee pathogens *Bacillus larvae* and *Ascospaera apis*, and the secondary invader *B. alvei*. *Journal of Essential Oil Research* 6 (3) : 279-287.
- Haldankar P M, Nagwekar D D, Patil J L & Gunjate R T 1994 Varietal screening for yield and quality in cinnamon. *Indian Cocoa, Areca nut and Spices Journal* 18 (3) : 79-82.
- Ibrahim Jantan, Rasadah Mat Ali & Goh S H 1994 Toxic and antifungal properties of the essential oil of *Cinnamomum* species from Peninsular Malaysia. *Journal of Tropical Forest Science* 6 (37) : 286-292.
- Jiratko J 1994 Effect of plant extracts on blue mould of citrus fruit and grey mould (*Botrytis cinerea* Pers.). *Ochrana Rostlin* 30 (4) : 273-282.

*Spices bibliography*

- Khader Khan H 1994 Pests of cinnamon, a tree spice and their management. *Spice India* 7 (1) : 14-17.
- Kermasha S, Goetghebeur M & Dumont J 1994 Separation and characterization of pepper contaminated cinnamon using HPLC analysis. *Food Science and Technology* 27 (6) : 578-583.
- Krishnamoorthy B & Rema J 1994 Air layering in cassia. *Journal of Spices and Aromatic crops* 3 (1) : 48 - 49.
- Mukherjee P S & Nandi B 1994 Poultry feed preservation from fungal infection by cinnamon oil. *Journal of Mycopathological Research* 32 (1) : 1-5.
- Nath S C, Hazarika A K & Singh R S 1994 Essential oils of leaves of *Cinnamomum tamala* Nees. Eberm from North East India. *Journal of Spices and Aromatic Crops* 3 (1) : 33-35.
- Ranaware V S, Nawale R N & Khandekar R G 1994 Effect of rooting media and wood maturity on rooting in air layering of cinnamon. *Spice India* 7 (6) : 19-21.
- Sriharan R, Jacob V J & Balasubramaniam S 1994 Thin layer chromatographic analysis of essential oil from *Cinnamomum* species. *Journal of Herbs, Spices and Medicinal Plants* 2 (2) : 49-63.
- Clove (*Eugenia caryophyllus*)**
- Ho S H, Cheng L P L & Tan HTW 1994 Potential of cloves (*Syzygium aromaticum* (L) Merr. and Perry as a grain protectant against *Tribolium castaneum* (Herbst) and *Sitophilus zeamais* Motsch. *Postharvest Biology and Technology* 4 (1-2) : 179 183.
- Krishnamoorthy B & Rema J 1994 Three promising morphological variants in clove from Tamil Nadu, India. *Journal of Spices and Aromatic Crops* 3 (2) : 168.
- Krihnamoorthy B & Rema J 1994 Characterization of seedling progenies of elite lines of clove. *Indian Cocoa, Areca nut and Spices Journal* 18 (3) : 82-85.
- Korikanthimath V S, Rajendra Hegde, Venugopal M N, Sivaraman K & Krishnamoorthy B 1994 Multistoried cropping systems with coffee, clove and pepper. *Indian Coffee* 58 (10) : 3-5.
- Prasada Rao G S L H V & Siby Sebastian 1994 Estimation of leaf area in tree crops. *Journal of Plantation Crops* 22 (1) : 44-46.
- Rema J & Krishnamoorthy B 1994 Approach grafting of clove. *Indian Horticulture* 39 (3) : 53-55.
- Rema J & Krishnamoorthy B 1994 Vegetative propagation of clove, *Eugenia caryophyllus* (Sprengel) B & H. *Tropical Agriculture* 71 (2) : 144-146.
- Coriander (*Coriandrum sativum*)**
- Cahoon E B, Dormann P & Chlrogge J B 1994 Petroselinic acid biosynthesis and production in transgenic plants. *Progress in Lipid Research* 33 (1/2) : 155-163.

*Spices bibliography*

- Dhirendra Singh, Sharma R K, Sanjeev Agarwal & Edison S 1994 Quality improvement in coriander. Spice India 7 (7) : 15-18.
- Douglas M, McGimpsey J & Perry N 1994 Essential oils in New Zealand. Horticulture in New Zealand 5 (2) : 22-25.
- Glumova N V, Guzhova N V, Merzylak MN & Chivkunova O B 1994 Possible involvement of oxygen radical in the damage of coriander plants by *Ramularia coriandri*. Russian Journal of Plant Physiology 41 (1) : 114-117.
- John T D 1994 Coriander development in Andhra Pradesh. Spice India 7 (1) : 4-5.
- Lal S P 1994 A note on *Pringsheimia oldenlandiae* Chona, Munjal and Kapoor. Indian Journal of Mycology and Plant Pathology 24 (1) : 69-71.
- Murphy D J, Richards D, Taylor R, Capdeville J, Guillemot J C, Grism R, Fairbairn D & Bowra S 1994 Manipulation of seed oil content to produce industrial crops. Industrial Crops and Products 3 (1/2 special issue) : 17-27.
- Sanjeev Agrawal, Choudhary G R & Sharma R K 1994 Improving the yield of essential oil in coriander. Indian Cocoa, Areacanut & Spices Journal 18 (2) : 45-48.
- Sarada B, Venkateswarlu G, Subbaiah G & Venkateswara Reddy A 1994 Performance of coriander cultivars at different dates of sowing. Andhra Agricultural Journal 41 (1-4) : 18-21.
- Simandi B, Deak A, Kemeny S, Vigh L, Lemberkovics E, Kery A & Weinbrenner Z 1994 Production of (*Coriandrum sativum* and *Zea mays*) plant extracts by super critical fluid extraction. Elelmezesi Ipar 48 (3) : 69-72.
- Szuiko-Lacza J 1994 Architecture and inner structure of *Coriandrum sativum* L. Akademiai Kiadoacute, Budapest, Hungary.
- Venkateswarlu K, Eswara Reddy S & Narayana Reddy Y 1994 Potassium uptake efficiency of certain coriander cultivars sown at different dates. Indian Cocoa Areacanut and Spices Journal 18 (3) : 92-93.
- Cumin (*Cuminum cyminum*)**
- Bhati D S, Sharma R K & Agarwal H R 1994 Effect of sowing dates on cumin productivity. Spice India 7 (4) : 15.
- Kalpana Bhatnagar, Kamlesh Mathur & Sharma B S 1994 *Microascus cirrosus* on cumin - new host record. Indian Phytopathology 47 (2) : 214.
- Paliwal K K 1994 Growing cumin under limited irrigation. Indian Cocoa, Areacanut and Spices Journal 18 (3) : 93.
- Parihar G N & Singh R 1994 Effect of cultural and herbicidal weed management on the yield of cumin. Annals of Arid Zone 33 (4) : 309-313.
- Sanjeev Agrawal 1994 Quality aspects for cumin export. Spice India 7 (12) : 18-25.

*Spices bibliography***Fennel (*Foeniculum vulgare*)**

- Bhati D S 1994 Dodder (*Cuscuta reflexa* Roxb.), a severe parasitic weed on fennel. Journal of Spices and Aromatic Crops 3 (2) : 152-154.

- Kashyap R K, Chauhary O P & Thakral K K 1994 Influence of management practices on the incidence of *Systole albipennis* Walker in fennel seeds. Journal of Spices and Aromatic Crops 3 (2) : 124-129.

**Fenugreek (*Trigonella foenum graecum*)**

- Bhardwaj P K, Dasgupta D J, Prashar B S & Kaushal S S 1994 Effective reduction of LDL cholesterol by indigenous plant product. Journal of the Indian Medical Association 92 (3) : 80-81.

- Jain S C & Madhu Agrawal 1994 Effect of mutagens on steroid sapogenins in *Trigonella foenum graecum* tissue cultures. Fitotevapia 65 (4) : 367-370.

- Mansour E H & Eladawy T A 1994 Nutritional potential and functional properties of heat treated with germinated fenugreek seeds. Food Science and Technology 27 (6) : 568-573.

- Mandam A R & Maiti R G 1994 Efficacy of different herbicides for weed control in fenugreek. Environment and Ecology 12 (1) : 138-142.

**Garlic (*Allium sativum*)**

- Ahonen & Kokkola M 1994 The influence of low preplanting temperatures on growth and yield of Finnish local garlic strains 'Joutseno' and 'Rautjarvi'. Advances in Horticultural Science 8 (4) : 215-219.

- Bisht I S & Agarwal R C 1994 Modelling and relationship between purple biotech and yield loss in garlic and effect of leaf damage on bulb yield. Annals of Applied Biology 125 (2) : 293-301.

- Caruso P, D'Anna F, Palazzolo E & Panno M 1994 Behaviour of garlic cultivars and land races in Sicily. Colture Protette 23 (12) : 79-85.

- Choi D J, Yoon J T, Lee H S & Choi D W 1994 Field test for seed bulb productivity of in vitro cultured garlic multiple shoots. Journal of the Korean Society for Horticultural Science 35 (6) : 553 - 558.

- Coroci C A, Arguello J A & Orioli G A 1994 Biochemical changes in garlic during storage following Y irradiation. International Journal of Radiation Biology 65 (2) : 263-266.

- Dobrzanki W & Kuzminska M 1994 The influence of freeze drying para-meters and storage time on the antibacterial property of garlic. Biuletyn Warzywniczy 41 : 127-134.

- Gvozdanovic - Varga J, Takae A & Vasic M 1994 New clones of spring garlic. Selekeija i Semenarstvo 1 (1) : 65-68.

*Spices bibliography*

- Hahn S J 1994 Characteristics of introduced garlic cultivars and effects of low temperature pretreatment and night interruption in protected winter culture. *Journal of the Korean Society for Horticultural Science* 35 (6) : 559-573.
- Kalola R H & Singh S P 1994 Storability of garlic genotypes under ambient temperature. *Indian Journal of Agricultural Research* 28 (3) : 197-200.
- Kapuler A M & Gurusiddiah S 1994 The twenty protein amino acid free in the juices of our common vegetables and herbs. *Journal of Home and Consumer Horticulture* 1 (1) : 3-18.
- Kudou R, Fujime Y & Amimoto K 1995 Effects of plant growth regulators and sampling positions on organ formation of garlic. *Technical Bulletin of Faculty of Agriculture, Kagawa University* 47 (1) : 15-22.
- Martin N, Bardisa L, Pantoja C, Vargas M, Quezada P & Valenzuela J 1994 Anti-arrhythmic profile of a garlic dialysate assay in dogs and isolate atrial preparations. *Journal of Ethnopharmacology* 43 (1) : 1-8.
- Miller C H, Hamilton S M & Teel R W 1994 Effects of compounds of plant origin on the mutagenicity and metabolism of the tobacco - specific nitrosamine NNK. *Phytotherapy Research* 8 (6) : 342-347.
- Nagae S, Ushijime M, Hatono S, Imai J, Kasuga S, Matsuura H, Itakura Y & Higashi Y 1994 Pharmacokinetics of the garlic compound S - allylcysteine. *Planta Medica* 60 (3) : 214-217.
- Ozturk Y, Aydin S, Kosar M & Baser KHC 1994 Endothelium dependent and independent effects of garlic on rat aorta. *Journal of Ethnopharmacology* 44 (2) : 109-116.
- Perez H A, Rosa M De La & Apitz R 1994 *In vitro* activity of ajoene against rodent malaria. *Antimicrobial Agents and Chemotherapy* 38 (2) : 337-339.
- Prakash S, Dakshinamurthy A & Shukla B D 1994 Status of garlic storage and processing in India. *Spice India* 7 (8) : 20-25.
- Rekka E A & Kourounakis P N 1994 Investigation of the molecular mechanism of the antioxidant activity of some *Allium sativum* ingredients. *Pharmazie* 49 (7) : 539-540.
- Reuter H D & Sendi A 1994 *Allium sativum* and *Allium ursinum* : Chemistry, pharmacology and medicinal applications. In: Wagner H & Farnsworth N R (Eds.) *Economic and Medicinal Plant Research* Vol. 6. pp. 55-115. Academic Press Ltd., London.
- Satti S M E & Lopez M 1994 Effects of storage temperature on growth and bulb formation in four garlic cultivars. *Pakitan Journal of Botany* 26 (1) : 161-167.
- Sharma S R, Dakshinkar N P, Dhoot V M & Sapre V A 1994 Evaluation of crude extract of garlic in dermatophytosis of calves. *International Journal of Animal Sciences* 9 (2) : 239-240.

*Spices bibliography*

- Sheen L Y, Leu Y Ji, Kang Z C, Lin S J & Tsai S J 1994 Qualitative and quantitative analysis of possible active components in garlic based health foods. *Journal of the Chinese Nutrition Society* 19 (4) : 395-405.
- Sushama Koul, Manju Sambyal & Grewal S 1994 Embryogenesis and plantlet formation in garlic. *Journal of Spices and Aromatic Crops* 3 (1) : 43-47.
- Sutarya R & Dijk P Van 1994 Virus diseases of shallot and garlic in Java and prospects for their control. *Acta Horticulturae No. 369* : 134-143.
- Svenen L, Rattan S I S & Clark B F C 1994 Testing garlic for possible antiaging effects on long term growth characteristics, morphology and macro molecular synthesis of human fibroblast in culture. *Journal of Ethnopharmacology* 43 (2) : 125-133.
- Yanasaki T, Li L & Lau B H S 1994 Garlic compounds protect vascular endothelial cells from hydrogen peroxide induced oxidant injury. *Phytotherapy Research* 8 (7) : 408-412.
- Ginger (*Zingiber officinale*)**
- Aeschbach R, Loliger J, Scott B C, Murcia A, Butler J, Halliwell B & Aruoma O I 1994 Antioxidant actions of thymol, arvacrol, 6-gingerol, zingerone and hydroxytyrosol. *Food and Chemical Toxicology* 32 (1) : 31-36.
- Bhat S R, Chandel K P S & Kackar A 1994 *In vitro* induction of rhizomes in ginger. *Indian Journal of Experimental Biology* 32 (5) : 340-344.
- Chauhan H L, Patel M H & Patel D D 1994 Control of rhizome rot of ginger. *Spice India* 7 (3) : 10-17.
- Dake G N 1994 Integrated management of bacterial wilt of ginger. *Spice India* 7 (11) : 14-17.
- Davis T A 1994 Fire ginger. *Spice India* 7 (8) : 8-11.
- Dogra S P, Korla B N & Sharma P P 1994 *In vitro* clonal propagation of ginger. *Horticultural Journal* 7 (1) : 45-50.
- Konoshima T, Takasaki M, Kozuka M & Tokuda H 1994 Anti tumor promoting activities of kampo prescriptions. II. Inhibitory effects of shouseiryu-to on two-stage carcinogenesis of mouse skin tumors and mouse pulmonary tumors. *Journal of Pharmaceutical Society of Japan* 114 (4) : 248-256.
- Kotani S 1994 Disease cycle of blast of ginger and mioga caused by *Pyricularia zingiberi* Nishikado. *Annals of the Phytopathological Society of Japan* 60 (5) : 644-647.
- Leena George 1994 Production trends in ginger in Kerala. *Spice India* 7 (5) : 28-30.
- Lumb A B 1994 Effect of dried ginger on human platelet function. *Thrombosis and Haemostasis* 71 (1) : 110-111.

- Nwachukwu E C, Ene L S O & Mbanaso E N A 1994 Radiation sensitivity of two ginger varieties to gamma irradiation. *Tropenlandwirt* 95 (April) : 99-103.
- Ofuya T I & Okuku I E 1994 Insecticidal effect of some plant extracts on the cowpea aphid *Aphis cracivora* Koch (Homoptera: Aphididae). *Anzelger fur Schadingskunde, Pflanzenschutz, Umweltchutz* 67 (6) : 127-129.
- Okwuowulu P A 1994 Ginger in South Eastern Nigeria II. The field response of uncoated ginger Yatsun biri for rapid seed ginger production. *Journal of Spices and Aromatic Crops* 3 (1) : 1-5.
- Ravindran P N, Sasikumar B, George J K, Ratnambal M J, Babu K N, Zachariah J T & Nair R R 1994 Genetic resources of ginger and its conservation in India. *Plant Genetic Resources Newsletter* No.98 : 1-4.
- Mustard (*Brassica juncea*)**
- Bhadoria R B S & Chauhan D V S 1994 Effect of fertilizer and weed control in Indian mustard. *Indian Journal of Agronomy* 39 (4) : 690-692.
- Choudhary J K & Thakuria R K 1994 Response of Indian mustard and toria to sowing date under rainfed conditions. *Indian Journal of Agronomy* 39 (4) : 687-688.
- Gupta R B L 1994 Assessment of losses due to mosaic virus in mustard. *Annals of Arid Zone* 33 (4) : 71-73.
- Kanwat P M & Kumawat K C 1994 Effect of date of sowing on the incidence of aphid, *Liaphis erysimi* (Kalt) on mustard. *Annals of Arid Zone* 33 (4) : 61-63.
- Katiyar R K & Rohit Chamola 1994 A note on incorporation of resistance to *Alternaria* leaf spot into *Brassica juncea* from *B. carinata*. *New Botanist* 21 (1-4) : 131-133.
- Lenk R, Agosti R D & Greppin H 1994 NMR examination of intact mustard seeds (in French). *Archives Des Sciences* 47 (3) : 297.
- Mohammed F 1994 On increasing mustard productivity with an inexpensive source of leaf-applied phosphorus. *Journal of Agronomy and Crop Science* 173 (5) : 354.
- Mondal R K & Paul N K 1994 Growth analysis using classical and functional techniques in relation to soil moisture in mustard. *Journal of Agronomy and Crop Science* 173 (3-4) : 230-241.
- Padmani D R, Porwal B L & Patel J C 1994 Effect of levels of irrigation, nitrogen and jalashkti on growth and yield of Indian mustard. *Indian Journal of Agronomy* 39 (4) : 599-604.
- Sahoo C R & Sahoo S C 1994 Studies on the effect of different oil cakes and two nematicides in the control of lesion nematode, *Pratylenchus zeae* in rice. *Annals of Plant Protection Sciences* 2 (1) : 30-32.

- Sarma N N & Sarma D 1994 Response of toria and Indian mustard varieties to sowing dates in hills zone of Assam. *Indian Journal of Agronomy* 39 (4) : 685-687.
- Saran G, Rana D S & Pachauri D K 1994 Production potential of potato and Indian mustard under different planting patterns and fertility levels. *Indian Journal of Agronomy* 39 (4) : 539-544.
- Singh Y, Gaur N S & Singh D 1994 Response of Indian mustard and lentil to nitrogen, phosphorus and potassium in Western Uttar Pradesh. *Indian Journal of Agronomy* 39 (4) : 688-690.
- Yadav R N, Bhan S & Uttam S K 1994 Effect of sowing date, variety and plant population on growth and yield of rainfed Indian mustard. *Indian Journal of Agronomy* 39 (4) : 682-685.
- Nutmeg (*Myristica fragrans*)**
- Gils C Van & Cox P A 1994 Ethnobotany of nutmeg in the spice islands. *Journal of Ethnopharmacology* 42 (2) : 117-124.
- Johny Manithottam 1994 Vegetative propagation in nutmeg. *Spice India* 7 (2) : 5-7.
- Madhusudanan K V & Babu V 1994 Recalcitrancy, viability and germination in nutmeg seeds. *Journal of Plantation Crops* 22 (1) : 25-29.
- Naseema A & Sulochana K K 1994 A new leaf spot of nutmeg. *Indian Phytopathology* 47 (4) : 439.
- Oregano (*Origanum vulgare*)**
- Kozlowski D & Szezyglewska D 1994 Biology of germination of medicinal plant seeds Vd. *Origanum vulgare* L. seeds. *Herba Polonica* 40 (3) : 79-82.
- Skwarek T, Tynecka Z, Glowniak K & Lutostanska E 1994 Plant inducers of interferons. *Herba Polonica* 40 (1&2) : 42-49.
- Parsley (*Petroselinum crispum*)**
- Conn E E & McCue K F 1994 Regulation of the shikimate pathway in suspension cultured cells of parsley. In: Ryu DDY & Furusaki S J. (Eds.) *Advances in Plant Biotechnology*. Elsevier Science, Amsterdam, Netherlands.
- Davis R M, Winterbottom C Q, Mircetich S M & Valencia J 1994 First report of *Phytophthora* root rot of parsley. *Plant Disease* 78 (11) : 1122.
- Feldbrugge M, Sprenger M, Dinkelbach M, Yazaki K, Harter K & Weisshaar B 1994 Functional analysis of a light responsive plant bZIP transcriptional regulator. *Plant Cell* 6 (11) : 1607-1621.
- Frohnmyer H, Hahlbrock K & Schafer E 1994 A light responsive in vitro transcription system from evacuated parsley protoplasts. *Plant Journal* 5 (3) : 437-449.

*Spices bibliography*

- Kabsakalis V & Tsolaki A 1994 Fluoride content of vegetables irrigated with waters of high fluoride levels *Fresenius Environmental Bulletin* 3 (6) : 377-380.
- Kolke S T & Saenz G S 1994 Occurrence of powdery mildew on parsley in California. *Plant Disease* 78 (12) : 1219.
- Osada S 1994 Bacterial rot of parsley caused by *Pseudomonas marginalis* pv. *marginalis* (Brown 1918) Stevens 1925. Annual Report of the Society of Plant Protection of North Japan No.45 : 80-83.
- Rosemary (*Rosmarinus officinalis*)**
- Al-Hader A A, Hasan Z A & Aquel M B 1994 Hyperglycemic and insulin release inhibitory effects of *Rosmarinus officinalis*. *Journal of Ethnopharmacology* 43 (3) : 217-221.
- Boatto G, Pintore G, Palomba M, Simone F. De, Ramundo E & Iodice C 1994 Composition and antimicrobial activity of inula helenium and *Rosmarinus officinalis* essential oils. *Fitoterapia* 65 (3) : 279-280.
- Kreis P, Dietrich A & Mosandl A 1994 Chiral compounds of essential oils: Pt 18 : On the authenticity assessment of the essential oil of *Rosmarinus officinalis* L. *Pharmazie* 49 (10) : 761-765.
- Miroshnichenko Yu A 1994 Some medicinal plants of Arab folk medicine. *Rastitel'nye Resursy* 30 (3) : 106-109.
- Misra P & Chaturvedi H C 1994 Shoot bud differentiation in leaf segments of *Rosmarinus officinalis* L. *In vitro histology and scanning electron microscopy*. *Indian Journal of Experimental Biology* 32 (4) : 288-291.
- Mohan L 1994 *Sclerotinia* rot in rosemary. *Indian Phytopathology* 47 (4) : 443.
- Sawabe A & Okamoto T 1994 Natural phenolics as antioxidants and hypotensive materials. *Bulletin of the Institute for Comprehensive Agricultural Sciences, Kinki University* No.2 : 1-11.
- Spiro M & Chen S S 1994 Kinetics of solvent extraction of essential oil from rosemary leaves. *Flavour and Fragrance Journal* 9 (4) : 187-200.
- Saffron (*Crocus sativus*)**
- Ashok Ahuja, Sushma Koul, Ram G & Kaul B L 1994 Somatic embryogenesis and regeneration of plantlets in saffron, *Crocus sativus* L. *Indian Journal of Experimental Biology* 32 (2) : 135-140.
- Cappelli C 1994 Occurrence of *Fusarium oxysporum* f.sp. *gladioli* on saffron in Italy. *Phytopathologia Mediterranea* 33 (1) : 93-94.
- Cappelli C & Donato G D 1994 Attacks of *Fusarium oxysporum* Schlecht in crops of saffron in Abruzzo. *Informatore Agrario* 50 (25) : 75-76.
- Munshi A M 1994 Effect of N P and K on the floral yield and corm production in saffron (*Crocus sativus* L.) under rainfed conditions. *Indian Cocoa, Areca nut and Spices Journal* 18 (2) : 41-45.

*Spices bibliography***Thyme (*Thymus vulgaris*)**

Ceylan A, Bayram E & Ozay N 1994 The effect of N fertilizer on the yield and quality of *Thymus vulgaris* L. in ecological conditions of Bornova Izmir. *Turkish Journal of Agriculture and Forestry* 18 (4) : 249-255.

McGimpsey J A, Douglas M H, Klink J W Van, Beauregard D A & Perry N B 1994 Seasonal variation in essential oil yield and composition from naturalized *Thymus vulgaris* L. in New Zealand. *Flavour and Fragrance Journal* 9 (6) : 347-352.

**Turmeric (*Curcuma longa*)**

Chhabra M B, Rajinder Kumar & Gupta S K 1994 Efficacy of dermoceut (herbal) cream against mange in camel and buffalo. *Indian Veterinary Journal* 71 (2) : 167-169.

Gajendran G, Mohamed Jalaludin S, Thirumurthy S & Chinnaswami K N 1994 Influence of rhizome treatment on growth and yield of turmeric. *Spice India* 7 (3) : 6-8.

Iyengar M A, Rao M P, Rao S G & Kamath M S 1994 Antiinflammatory activity of volatile oil of *Curcuma longa* leaves. *Indian Drugs* 31 (11) : 528-531.

Lahiri Mousumi & Bhide S V 1994 Studies on possible protective effects of plant derived phenols and the vitamin precursors - B carotene and a tocopherol on 7,12 dimethylbenz (a) anthracene induced tumour initiation events. *Phytotherapy Events* 8 (4) : 237-240.

Nageshwar Rao T G 1994 Turmeric rhizome rot and its management. *Spice India* 7 (11) : 17-20.

Nandi, Lenka D & Singh D N 1994 Path analysis in turmeric. *Indian Cocoa, Areca nut and Spices Journal* 18 (2) : 54-55.

Palarpawar M Y & Ghurde V R 1994 Variability in *Colletotrichum curcumae*, the incitant of leaf spot of turmeric in Vidarbha. *Indian Phytopathology* 47 (2) : 207-210.

Prasad Babu M B B, Narasimha Rao P V & Bhanuprasad V 1994 On nutrition of turmeric in relation to manganese, copper and zinc. *Andhra Agricultural Journal* 41 (1-4) : 21-27.

Pulla Reddy A C & Lokesh B R 1994 Effect of dietary turmeric on iron induced lipid peroxidation in the rat liver. *Food and Chemical Toxicology* 32 (3) : 279-283.

Rao P S, Ramakrishnan M, Srinivas C, Meenakumari K & Manohar Rao A 1994 Short duration, disease resistant turmerics for Northern Telangana. *Indian Horticulture* 39 (3) : 55-57.

Rao V P, Rao A M, Ramakrishna M & Rao P S 1994 Leaf area estimation by linear measurements in turmeric. Annals of Agricultural Research 15 (2) : 231-233.

Sangeeta Kaul & Krishnakant T P 1994 Effect of retinol deficiency and curcumin on turmeric feeding on brain Na<sup>+</sup> K<sup>+</sup> adenosin triphosphatase activity. Molecular and Cellular Biochemistry 137 (2) : 101-107.

Sasikumar B, Ravindran P N & Johnson George K 1994 Breeding ginger and turmeric. Indian Cocoa, Arecaut and Spices Journal 18 (1) : 10-12.

Satheesan K V, Geroge M V, Vijayakumar K & Ramadasan A 1994 Estimation of leaf area in turmeric under two agroecological conditions. Journal of Spices and Aromatic Crops 3 (1) : 14-18.

Shahi R P, Shahi B G & Yadava H S 1994 Stability analysis for quality characters in turmeric. Crop Research (Hisar) 8 (1) : 112-116.

Sheshagiri K S & Uthaiah B C 1994 Effect of nitrogen, phosphorus and potassium levels on growth and yield of turmeric in the hill zone of Karnataka. Journal of Spices and Aromatic Crops 3 (1) : 28-32.

Sheshagiri K S & Uthaiah B C 1994 Performance of turmeric varieties in the hill zone of Karnataka, India. Journal of Spices and Aromatic Crops 3 (2) : 161-163.

Sivaraman K & Palaniappan S P 1994 Turmeric - maize and onion inter cropping systems. 1. Yield and land use effeciency. Journal of Spices and Aromatic Crops 3 (1) : 19-27.

Verghese J 1994 Curcumin - the pigment pool of *Curcuma longa* rhizome. Indian Spices 31 (4) : 12-16.

### **Vanilla (*Vanilla planifolia*)**

Kuriachen P M & Madhusoodanan K J 1994 Vanilla pollination - how ? Spice India 7 (2) : 22-25.

Sankaran P G, Kuruvilla K M & Madhusoodanan K J 1994 Correlations between biometrical characters in vanilla. Journal of Spices and Aromatic Crops 3 (2) : 155-157.

Shadakshari Y G, Uthaiah B C & Chandrasekaraiah S C 1994 A new method of hand pollination in vanilla. Journal of Spices and Aromatic Crops 3 (2) : 167.

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