

RESEARCH AROUND THE WORLD

Dr Ken Cockshull of Horticulture Research International has trawled through recent scientific publications to compile his personal selection of research from around the world. His current compilation is of work that has a bearing on the production of glasshouse crops (actual or potential) but the intention is to cover all the major commodity areas during the coming year. We hope that this broader approach gives members an idea of the huge amount of scientific research that is being undertaken and published throughout the world. Furthermore, each reference is given in sufficient detail to enable members to consult the original research papers, if they so wish.

Research Around The World January 2004 Glasshouse Crops

- Changes in activities of acid invertase isoforms affect sugar accumulation and composition during ripening of tomato fruit. Husain S, N'Tchobo H, Nguyen-Quoc B, Kingston-Smith A H, Thomas B J & Foyer C H, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 182.
- Compatibility of acaricide residues with *Phytoseiulus persimilis* and their effects on *Tetranychus urticae*. Cote K W, Lewis E E & Schultz P B, 2002. *HortScience* **37**; 906.
- Diurnal temperature alternations (DIF/drop) affect chlorophyll content and chlorophyll a/chlorophyll b ratio in *Melissa officinalis* L. and *Ocimum basilicum* L., but not in *Viola x wittrockiana* Gams. Vagen I M, Moe R & Ronglan E, 2003. *Scientia Horticulturae* **97**; 153.
- Effect of assimilate availability on flower characteristics and plant height of cut chrysanthemum; an integrated study. Carvalho S M P & Heuvelink E, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 711.
- Effect of photoperiod and daily light integral on flowering of five *Hibiscus* sp. Warner R M & Erwin J E, 2003. *Scientia Horticulturae* **97**; 341.
- Effect of soilless potting media and water management on development of fungus gnats (Diptera: Sciaridae) and plant growth. Olson D L, Oetting R D & van Iersel M W, 2002. *HortScience* **37**; 919.
- Effect of the different timing of AMF inoculation on plant growth and flower quality of chrysanthemum. Sohn B K, Kim K Y, Chung S J, Kim W S, Park S M, Kang J G, Rim Y S, Cho J S, Kim T H & Lee J H, 2003. *Scientia Horticulturae* **98**; 173.
- Effects of high temperature on tomato summer fruit quality. Mulholland B J, Edmondson R N, Fussell M, Basham J & Ho L C, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 365.
- Effects of photoperiod on leaf greenness of four bedding plant species. Langton F A, Adams S R & Cockshull K E, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 400.
- Evaluation of captured rainwater and irrigation runoff for greenhouse foliage and bedding plant production. Chen J, Beeson R C Jr, Yeager T H, Stamps R H & Felter L A, 2003. *HortScience* **38**; 228.
- Evaluation of recycled rockwool as a component of peat-based mixtures for geranium (*Pelargonium peltatum* L.) production. Riga P, Álava S, Usón A, Blanco F, Garbisu C, Aizpurua A, Tejero T & Iarrea A, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 213.
- Far-red light absorbing photoselective plastic films affect growth and flowering of chrysanthemum cultivars. Li S, Rajapakse N C & Young R E, 2003. *HortScience* **38**; 284.

- Floral transition in lisianthus (*Eustoma grandiflorum*). Zaccari M & Edri N, 2002. *Scientia Horticulturae* **95**; 333.
- Flowering of *Primula malacoides* in response to photoperiod and temperature. Karlsson M G & Werner J W, 2002. *Scientia Horticulturae* **95**; 351.
- Growth and photosynthetic response of tomato to nutrient solution concentration at two light levels. Schwarz D, Kläring H-P, van Iersel M W & Ingram K T, 2002. *Journal of the American Society for Horticultural Science* **127**: 984.
- Influence of nutrient solution concentration and a root pathogen (*Pythium aphanidermatum*) on tomato root growth and morphology. Schwarz D & Grosch R, 2003. *Scientia Horticulturae* **97**; 109.
- Influence of photoselective films and growing season on stem growth and flowering of six plant species. Cerny T A, Faust J E, Layne D R & Rajapakse N C, 2003 *Journal of the American Society for Horticultural Science* **128**; 486.
- Inheritance of resistance to two-spotted spider mite and glandular leaf trichomes in wild tomato *Lycopersicon pimpinellifolium* (Jusl.) Mill.. Fernández-Muñoz R, Salinas M, Álvarez M & Cuartero J, 2003. *Journal of the American Society for Horticultural Science* **128**; 188.
- Leafminer resistance in lettuce. Mou B & Liu Y-B, 2003. *HortScience* **38**; 570.
- Photocontrol of flowering and extension growth in the long-day plant pansy. Runkle E S & Heins R D, 2003. *Journal of the American Society for Horticultural Science* **128**; 479.
- Rapid determination of nitrogen status in pansy. Altland J E, Gilliam C H, Keever G J, Edwards J H, Sibley J L & Fare D C, 2003. *HortScience* **38**; 537.
- Response of sweet pepper (*Capsicum annuum* L.) genotypes to *Agrobacterium tumefaciens* as a means of selecting proper vectors for genetic transformation. Dabauza M & Peña L, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 65.
- Short-term temperature change affects the carbon exchange characteristics and growth of four bedding plant species. Van Iersel M W, 2003. *Journal of the American Society for Horticultural Science* **128**; 100.
- Solution electrical conductivity and ratio of nitrate to other nutrients affect accumulation of nitrate in hydroponic lettuce. Gent M P N, 2003. *HortScience* **38**; 222.
- Stem extension and subsequent flowering of seedlings grown under a film creating a far-red deficient environment. Runkle E S & Heins R D, 2002. *Scientia Horticulturae* **96**; 257.
- Subirrigation vs drip-irrigation: Effects on yield and quality of soilless-grown cherry tomato. Santamaria P, Campanile G, Parente A & Elia A, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 290.
- Temperature integration and DIF in cut chrysanthemum. Körner O & Challa H, 2003. *Journal of Horticultural Science & Biotechnology* **78**; 335.
- The effects of leaf removal and of modifying temperature set-points with solar radiation on tomato yields. Adams S R, Woodward G C & Valdés V M, 2002. *Journal of Horticultural Science & Biotechnology* **77**; 733.
- Ultraviolet-blocking greenhouse plastic films for management of insect pests. Costa H S, Newman J & Robb K, 2003. *HortScience* **38**; 465.
- Uniconazole application to container medium surface prior to planting bedding plants. Barrett J E, Schoellhorn R K, Bartuska C A, Clark D G & Nell T A, 2003. *HortScience* **38**; 169.

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