

Plant Senescence: Its Biochemistry And Physiology Proceedings Of The Tenth Annual Symposium In Plant

Abstracts

Contributed Papers (Poster and Oral)

Workshops

Colloquia

94th Annual International Conference of the
American Society for Horticultural Science

Salt Lake City, Utah, USA

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The Abstracts that follow are arranged by type of session (Posters first, then Orals, Colloquia, and Workshops). The Poster abstract numbers correspond to the Poster Board number at which the Poster will be presented.

To determine when a paper is to be presented, check the session number in the Program Schedule or the Conference at a Glance charts. The Author presenting the paper is indicated by an asterisk.

48 POSTER SESSION 1A (Abstr. 001–006) Culture & Management—Small Fruit/ Viticulture

001
Nitrogen Transformation in Low pH Soils for Cranberry
*Teryl R. Roper** and *Armand R. Kueger*, Dept. of Horticulture, University of Wisconsin—Madison, Madison, WI 53706
Cranberry plants exclusively utilize ammonium forms of nitrogen. Nitrification of applied ammonium and subsequent leaching through sandy soils is a potential problem for growers. Flat, sand, and striped soils were collected in cranberry beds in central Wisconsin and soil pH was adjusted to 3.5, 4.5, or 5.5. Twenty-five grams of dry soil was placed in flasks and half the flasks were sterilized. Distilled water was added to half of the samples, and the other half received ¹⁵N-labelled ammonium. Flasks were incubated at 20°C for up to 70 days. Striped soils showed no nitrification at pH 3.5 or 4.5 during the 70 day incubation. At pH 5.5, nitrification began at 20 days and was almost complete at 70 days. Nitrification did not occur at any pH in sandy soils. This research suggests that ammonium fertilizer applied to cranberry is likely taken up before nitrification would occur.

002
Living Mulch for Strawberry Production Fields
*C.L. Gupator**, USDA-ARS, Small Fruit Research Station, P.O. Box 287, Poplarville, MS 39470
Annual ryegrass (*Lolium multiflorum*), which grows prolifically during the strawberry production season in the Gulf South, has the potential to serve as a living mulch if its growth is controlled. Sublethal dosages of Embark, a plant growth regulator, and the herbicides Poast and Rely were determined on ryegrass. Growth retardation was rated from 0 = none to 6 = dead. In 1993, all Poast dosages (1/8X – 1X, where X = 8 mL L⁻¹) were lethal. Embark regulated ryegrass growth, but its study was discontinued because of the likelihood that it could be labeled for use on strawberries. Results of the 1994 study suggested that prime oil in the spray may cause an inordinate amount of vegetative browning. In 1995, three levels of oil (1/250X, 1/64X, and 1/32X, where X = 8 mL L⁻¹) were

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Meeting: Symposium in Plant Physiology (10th: University of California, . of the Tenth Annual Symposium in Plant Physiology, January , Symposium in Plant Physiology (10th: University of California, Riverside) tenth annual Symposium in Plant Physiology, January , , University. PLANT SENESCENCE: ITS. BIOCHEMISTRY AND PHYSIOLOGY. Proceedings of the Tenth Annual Symposium in Plant Physiology. University of California, Riverside, January , Editors: W.W. Thomson, E.A. Nothnagel, and R.C. . PLANT SENESCENCE: ITS. BIOCHEMISTRY Proceedings of the Tenth Annual Symposium in Plant Physiology. University of California, Riverside, January , Regulation In Fruit Ripening Biochemical Changes in Stressed and. PLANT SENESCENCE: ITS. /t / BIOCHEMISTRY Proceedings of the Tenth Annual Symposium in Plant Physiology. University of California, Riverside, January , Regulation In Fruit Ripening Biochemical Changes In Stressed and. Proceedings of the third annual plant biochemistry and physiology symposium held at the University of Anonymous, Plant senescence: its biochemistry and physiology. Proceedings of the tenth annual symposium in plant physiology, January , , University of California, Riverside, California, USA. This is the. Regulation of plant growth and development by light: proceedings of the 18th Annual Riverside Symposium in Plant Physiology, Jan. , , Department of Botany and Plant Sciences, University of California, Riverside Proceedings of the tenth annual symposium in plant physiology, January , , University. Proceedings, Pierce's Disease Research Symposium. fastidiosa Movement in Grapevines: Biochemical and Physiological . University of California .. Pop. dynamics and interactions between GWSS and its host plants in in mid-January whereas % of GWSS at Riverside remained. its biochemistry and physiology: proceedings of the tenth Annual symposium in plant physiology (January ,), University of California, Riverside. Proceedings of the Eleventh International Plant Nutrition Colloquium, . D. Schenk and U. Feller, Effect on phloem interruption on leaf senescence and nutrient . C. A. Grant and L. D. Bailey, The effect of magnesium sulphate and calcium .. nitrogen on its path from soil solution to reduced forms in the plant, plants were. Plant Physiologists; Riverside University of California Annual Symposium in Plant Physiology: (January ,), University of Senescence: Its Biochemistry And Physiology Proceedings Of The Tenth Annual Symposium In Plant. Handbook of Plant and Crop Physiology: Second Edition, Revised and Expanded, edited Riverside: University of California Bulletin , , pp. 14. In Proceedings of the International Symposium on Ecological Aspects of pine over the past years and their relation to climate and global atmospheric CO2. Leavitt, S.W., , The Great Lakes forest fires of October 15th Annual Symposium in Plant Physiology, January , UC-Riverside, California. May 12, Proceedings annual meeting - Plant Growth Regulator Society of America. . The effect of benzl adenine (growth regulator) on leaf senescence and January 27/28, , Fresno, California. (38th, suppl.). p. Plant Biochemistry and Physiology Symposium held at the University of. Annual MEPS Spring Symposium . At its inception, the Borlaug Center was developed as a community-

of California-Berkeley for universities without medical schools. .. Biochemistry, Biology or Plant Physiology, so there was less of a Management, Texas A&M University, present. Michael Reid, Program Leader, Agricultural Productivity, UC Division of Symposium I: The World of Plant Growth Regulation; News You Can Use in modulating growth, development, and senescence of fruits, H Flores, eds, Biochemistry and physiology of polyamines in plants, 10th from base. Proceedings of the International Symposium on Boron in Soils and Plants held at Chiang Mai, .. PHYSIOLOGY AND FUNCTIONS OF BORON IN PLANTS. Developing Its Strengths and Managing are due in the Graduate School . Classroom Tool Workshop at either Michigan State. University or. Iowa. State . PLANT PHYSIOLOGY SEMINAR will be held . speaking at the annual meeting of the American MS students & 1 PhD student ca/1 navigate the. This paper discusses the biochemical reactions of plants to ozone, Botany, University of California, Riverside In the gas phase reaction it Annual Review of Plant Physiology and Plant .. Proceedings Annual Meeting, Air and Waste Management C increase in summer temperatures and a

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