

UNICONAZOLE AND PACLOBUTRAZOL APPLICATION TO ANNUALS  
AS A LINER DIP

J.E. Barrett\*, C.A. Bartuska, and R.K. Schoellhorn

Environmental Horticulture Department, University of Florida, P.O. Box  
110670, Gainesville, FL 32611

The liner dip application technique involves dipping the roots and media of seedlings and rooted cuttings in a PGR solution prior to transplanting into final container. Seedlings of petunia (*Petunia x hybrida* 'Madness Midnight') and marigold (*Tagetes patula* 'Janie Spry') and rooted cuttings of verbena (*Verbena anadensis* 'Aztec Pink') were treated (30 sec.) with uniconazole as a liner dip at concentrations of 0.25 to 4.0 mg L<sup>-1</sup>. Concentrations producing final plant size approximately 50% of control plants were 1-2, 4 and 4 mg L<sup>-1</sup> for petunia, marigold and verbena, respectively. Paclobutrazol was applied as a liner dip to rooted cuttings of 'Priscilla' petunia (a vigorous cultivar) using concentrations of 1 to 16 mg L<sup>-1</sup>. Paclobutrazol has less activity than uniconazole on petunia and the 16-mg L<sup>-1</sup> treatment did not reduce final plant size by 25%. However, paclobutrazol at 80 mg L<sup>-1</sup>, as a media spray (sprayed on surface of media prior to transplanting) at 300 ml m<sup>-2</sup> produced a 25% reduction in final plant size.