

Publications

Refereed Journal Articles

1. McDaniel, C.N. and Berry, S.J. 1967. Activation of the prothoracic glands of *Antheraea Polythemus*. *Nature* 214:1032-1034.
2. McDaniel, C.N. and Berry, S.J. 1973. Clearance of purines from the haemolymph of the cecropia silkworm. *J. Insect. Physiol.* 19:1705-1709.
3. McDaniel, C.N., and Berry, S.J. 1974. Effect of caffeine and aminophylline on adult development of the cecropia silkworm. *J. Insect. Physiol.* 20:245-252.
4. McDaniel, C.N., and Sussex, I.M. 1975. Host growth induced by genetic tumor grafts. *Nature* 256:319-320.
5. McDaniel, C.N., Johnson, E., Saum, T., and Berry, S.J. 1976. Ultrastructure of active and inhibited prothoracic glands. *J. Insect. Physiol.* 22:473-481.
6. Johnson, E., Saum, T., McDaniel, C.N., and Berry, S.J. 1976. Methylxanthine inhibition of neurosecretion in the brain and corpus cardiacum of cecropia. *J. Insect Physiol.* 22:713-723.
7. McDaniel, C.N., and Hsu, F.C. 1976. Position-dependent development of tobacco meristems. *Nature* 259:564-565.
8. Blackman, M.S., and McDaniel, C.N. 1978. Amino acid transport in suspension cultured plant cells. I. Methods and kinetics of L-leucine uptake. *Plant Science Letters* 13:27-34.
9. McDaniel, C.N. 1978. Determination for growth pattern in axillary buds of *Nicotiana tabacum* L. *Dev. Biol.* 66:250-255.
10. McDaniel, C.N. 1979. Haemolymph ecdysone concentrations in *Hyalophora cecropia* pupae, dauer pupae and adults. *J. Insect. Physiol.* 25:143-145.
11. McDaniel, C.N. 1980. Influence of leaves and roots on meristem development in *Nicotiana tabacum* L. cv. Wisconsin 38. *Planta* 148:462-467.
12. Blackman, M.S., and McDaniel, C.N. 1980. Amino acid transport in suspension cultured plant cells. II. Characterization of L-leucine uptake. *Plant Physiol.* 66:261-266.
13. Barnett, T., Altschuler, M., McDaniel, C.N., and Mascarenhas, J.P. 1980. Heat shock induced proteins in plant cells. *Dev. Genetics.* 1:331-340.
14. McDaniel, C.N., Lyons, R., and Blackman, M.S. 1981. Amino acid transport in suspension-cultured plant cells. IV. Biphasic saturable uptake kinetics of L-leucine in isolates from six *Nicotiana tabacum* plants. *Plant Science Letters* 23: 17-23.

15. McDaniel, C.N., Holterman, R.K., Bone, R.F., and Wozniak, P.M. 1982. Amino acid transport in suspension-cultured plant cells. III. Common carrier system for the uptake of L-arginine, L-aspartic acid, L-histidine, L-leucine, and L-phenylalanine. *Plant Physiol.* 69:246-249.
16. McDaniel, C.N., and Wozniak, P.M. 1982. Amino acid transport in suspension-cultured plant cells. V. Influence of L-leucine, carbon-free and nitrogen-free media on L-leucine uptake rate. *Planta* 154:110-114.
17. Singer, S.R., and McDaniel, C.N. 1982. Transport of the herbicide 3-amino-1,2,4-triazole by cultured tobacco cells and leaf protoplasts. *Plant Physiol.* 69:1382-1386.
18. Singer, S.R., and McDaniel, C.N. 1984. Selection of amitrole tolerant tobacco calli and the expression of this tolerance in regenerated plants and progeny. *Theor. Appl. Genet.* 67:427-432.
19. Singer, S.R., and McDaniel, C.N. 1985. Selection of glyphosate- tolerant tobacco calli and the expression of this tolerance in regenerated plants. *Plant Physiol.* 78:411-416.
20. Dennin, K.A., and McDaniel, C.N. 1985. Floral determination in axillary buds of *Nicotiana glauca*. *Dev. Biol.* 112:377-382.
21. Singer, S.R., and McDaniel, C.N. 1986. Analyzing growth in cell cultures: II. Effect of initial cell mass on growth. *Can. J. Bot.* 64:238-241.
22. Schneegurt, M.A., and McDaniel, C.N. 1986. Amino acid transport in suspension cultured plant cells. VI. Influences of pH buffers, calcium, and preincubation media on L-leucine uptake. *Plant Physiol.* 81:36-40.
23. Singer, S.R. and McDaniel, C.N. 1986. Floral determination in the terminal and axillary buds of *Nicotiana glauca* L. *Dev. Biol.* 118:587-592.
24. Singer, S.R. and McDaniel, C.N. 1987. Floral determination in internode tissues of dayneutral tobacco first occurs many nodes below the apex. *PNAS* 84:2790-2792.
25. Gebhardt, J.S. and McDaniel, C.N. 1987. Induction and floral determination in the terminal bud of *Nicotiana glauca* L. cv. Maryland Mammoth, a short-day plant. *Planta* 172: 526-530.
26. McDaniel, C.N. and Poethig, R.S. 1988. Cell lineage patterns in the shoot apical meristem of the germinating maize embryo. *Planta* 175:13-22, 1988.
27. McDaniel, C.N., Sangrey, K.A. and Singer, S.R. 1989. Node counting in axillary buds of *Nicotiana glauca* cv. Wisconsin 38, a dayneutral plant. *Amer. J. Bot.* 76: 403-408.
28. McDaniel, C.N., Sangrey, K.A. and Jegla, D.E. 1989. Cryptic floral determination: Stem explants from vegetative tobacco plants have the capacity to regenerate floral shoots. *Dev. Biol.* 134:473-478.

29. McDaniel, C.N., King, R.W. and Evans, L.T. 1991. Floral determination and *in vitro* floral differentiation in isolated shoot apices of *Lolium temulentum* L. *Planta* 185:9-16.
30. Gebhardt, J.S. and McDaniel, C.N. 1991. Flowering response of *Nicotiana tabacum* L. day-neutral and short-day cultivars: Interactions among roots, genotype, leaf ontogenic position and growth conditions. *Planta* 185:513-517.
31. Smith, S.M.E. and McDaniel, C.N. 1992. The *Maryland Mammoth* allele and rooting perturb the fate of florally determined apices in *Nicotiana tabacum*. *Dev. Biol.* 153:176-184.
32. McDaniel, C.N. and Hartnett, L.K. 1993. Floral stimulus activity in tobacco stem pieces. *Planta* 189:577-583.
33. McDaniel, C.N., Hartnett, L.K. and Sangrey, K.A. 1996. Regulation of node number in day-neutral *Nicotiana tabacum*: a factor in plant size. *Plant J.* 9:55-61.
34. McDaniel, C.N. and Hartnett, L.K. 1996. Flowering as metamorphosis: two sequential signals regulate floral initiation in *Lolium temulentum*. *Development* 122:3661-3668.
35. Smith, S.M.E., McDaniel, C.N. and Hartnett, L.K. 1997. The *Maryland Mammoth* allele reduces floral stimulus activity in stem piece explants of *Nicotiana tabacum* L. *Amer. J. Bot.* 84:873-878.
36. Crone, W. and McDaniel, C.N. 1997. Flowering response to transplanting and rooting in *Arabidopsis thaliana* (*Brassicaceae*). *Int. J. of Plant Sci.* 158:231-235.
37. McDaniel, C.N. and Gowdy, J.M. 1998. Markets and biodiversity loss: Some case studies and policy considerations. *The International Journal of Social Economics* 25:1454-1465.
38. Gowdy, J.M. and McDaniel, C.N. 1999. The physical destruction of Nauru: An example of weak sustainability. *Land Economics* 75:333-338.
39. McDaniel, C.N. 1999. Rapid flowering in *Nicotiana tabacum* L. *Sexual Plant Reproduction.* 12:123-124.
40. McDaniel, C.N. and Borton, D.N. 2002. Increased Energy Use Causes Biological Diversity Loss and Undermines Prospects for Sustainability. *BioScience* 52:929-93
41. McDaniel, C.N., Lister, B.C., Hanna, M.H., and Roy, H. 2007. Increased Learning Observed in Redesigned Introductory Biology Course that Employed Web-enhanced, Interactive Pedagogy. *CBE—Life Sciences Education* 6:243-249.
42. Borton, D., McDaniel, C., and Stoner, H. 2010. Achieving Climate-Positive, Energy-Positive Homes: 60 Years of Northeast Climate Housing. *Proceedings*

of ASME 2010 4th International Conference on Energy Sustainability, May
17-22, 2010, Phoenix, AR, ES2010-90075.