

Dr. James D. Burton - Publications

Refereed Journal Publications

- Burton, J.D., J.W. Gronwald, D.A. Somers, B.G. Gengenbach, and D.L. Wyse. 1987. Inhibition of Plant Acetyl-Coenzyme A Carboxylase by the Herbicides Sethoxydim and Haloxyfop. *Biochem. Biophys. Res. Comm.* 148:1039-1044.
- Burton, J.D. and N.E. Balke. 1988. Glyphosate Uptake by Suspension-Cultured Potato Cells. *Weed Sci.* 36:146-153.
- Burton, J.D., J. W. Gronwald, D.A. Somers, B.G. Gengenbach, and D.L. Wyse. 1989. Inhibition of Corn Acetyl-CoA Carboxylase by Cyclohexanedione and Aryloxyphenoxypropionate Herbicides. *Pest. Biochem. Physiol.* 34:76-85.
- Stoltenberg, D.E., J.W. Gronwald, D.L. Wyse, and J.D. Burton. 1989. The influence of Sethoxydim and Haloxyfop on Acetyl-Coenzyme A Carboxylase Activity in Tolerant and Susceptible *Festuca* Species. *Weed Sci.* 37:512-516.
- Parker, W.B., F. Kieth, D.A. Somers, J.D. Burton, B.G. Gengenbach, and D.L. Wyse. 1989. Characterization of Sethoxydim and Haloxyfop Tolerant Mutants Selected from Tissue Culture. *Plant Physiol.* 92:1220-1225.
- Parker, W.B., L.C. Marshall, J.D. Burton, D.A. Somers, D.L. Wyse, J.W. Gronwald, and B.G. Gengenbach. 1990. dominant mutations Causing Alterations in Acetyl-Coenzyme A Carboxylase Confer tolerance to cyclohexanedione and aryloxyphenoxypropionate herbicides in *maize*. *Proc. Natl. Acad. Sci.* 87:7175-7179.
- Burton, J.D., J.W. Gronwald, D.A. Somers, B.G. Gengenbach, and D.L. Wyse. 1991. Kinetics of Inhibition of Acetyl-CoA Carboxylase by Sethoxydim and Haloxyfop. *Pest. Biochem. Physiol.* 39:100-109.
- Burton, J.D. and E.P. Maness. 1992. Constitutive and Inducible Bentazon Hydroxylation in Shattercane (*Sorghum bicolor*) and Johnsongrass (*S. halapense*). *Pest. Biochem. Physiol.* 44:40-49.
- Catanzaro, C.J., J.D. Burton, and W.A. Skroch. 1993. Graminicide Resistance of Acetyl-CoA Carboxylase from Ornamental Grasses. *Pest. Biochem. Physiol.* 45:147-153.
- Catanzaro, C.J., W.A. Skroch, and J.D. Burton. 1993. Response of ornamental grasses to graminicides. *Weed Tech.* 7:326-330.
- Burton, J.D., E. P. Maness, D.A. Monks and D.K. Robinson. 1994. Sulfonylurea Selectivity and Safener Activity in 'Landmark' and 'Merit' Sweet Corn. *Pestic. Biochem. Physiol.* 48:163-172.
- Robinson, D.K., D.W. Monks, and J.D. Burton. 1994. Effect of Naphthalic Anhydride, CGA 154 281 and BAS 145 138 Seed Treatments on Sweet Corn Tolerance to Nicosulfuron. *Weed Science.* 42:614-617
- Ferreira, K.L. H.D. Coble, and J.D. Burton. 1995. Effect of DPX-PE350 on Fluazifop Activity. *Weed Sci.* 43:184-191
- Sunderland, S.L., J.D. Burton, H.D. Coble, and E.P. Maness. 1995. Physiological Mechanism for Tall Ironingglory (*Ipomoea purpurea*) Tolerance to DPX-PE350. *Weed Sci.* 43:21-27
- Robinson, D.K., D.W. Monks, and J.D. Burton. 1996. Safening Influence of LAB 145 138 on Nicosulfuron, Terbufos and Bentazon Interactions in Sweet Corn (*Zea mays*). *Weed Sci.* 44:339-344.
- Roe, R.M.J.D. Burton and R.J. Kuhr, (Eds) 1997. Herbicide Activity: Toxicology, Biochemistry and Molecular Biology. IOS Press, Amsterdam
- Ma, G., H.D. Coble, F.T. Corbin, and J.D. Burton. 1997. Physiological mechanisms for differential responses of three weed species to prosulfuron. *Weed Sci.* 45:642-647.

- Burton, J.D. 1997. Acetyl-coenzyme A carboxylase inhibitors. In: *Herbicide Activity: Toxicology, Biochemistry and Molecular Biology*. R.M. Roe, J.D. Burton and R.J. Kuhr, Eds). IOS Press, Amsterdam. Pg 187-205.
- Wahlers, R.L. Burton, J.D. Maness, E.P. And Skroch, W.A. 1997. Physiological characteristics of a stem cut and blade delivery method of application. *Weed Sci.* 45:746-749.
- Wahlers, R.L. Burton, J.D. Maness, E.P. And Skroch, W.A. 1997. A stem cut and blade delivery method of herbicide application for weed control. *Weed Sci.* 45:829-832.
- Burton, J.D. 1997. The search for novel herbicide target sites: explorations off the beaten pathway. *Weed Sci.* 45:600.
- Patton, C.A. Ranney, T.G. Burton, J.D. And Walgenbach, J.F. 1997. Feeding responses of Japanese beetle to naturally occurring metabolites found in Rosaceous plants. *J. Environ. Hort.* 15(4):222-227.
- Patton, C.A. Ranney, T.G. Burton, J.D. And Walgenbach, J.F. 1997. Natural pest resistance of Prunus taxa to feeding by adult Japanese beetles: role of endogenous allelochemicals in host plant resistance. *J. Soc. Hort Sci.* 122(5):668-672.
- Fulcher, A.F., T.G. Ranney, J.D. Burton, J.F. Walgenbach, and D.A. Danehower. 1998. Role of foliar phenolics in host plant resistance of Malus Taxa to adult Japanese Beetles. *Hort Sci.* 33:862-865
- Feusi, M.E.S., J.D. Burton, J.D. Williamson, and D.M. Pharr. 1999. Galactosyl-sucrose metabolism and UDP-galactose pyrophosphorylase from Cucumis Mels L. Fruit. *Physiologia Plantarum* 106:9-16.
- Henson, S.E., W.A. Skroch, J.D. Burton, and A.D. Worsham. 2003. Herbicide efficacy using the Burch Wet Blade application system. *Weed Technology* 17:320-324.
- Troxler, S.C., I.C. Burke, W.D. Smith, J.D. Burton, J. Wilcut. 2003. Absorption, translocation and metabolism of CGA 362622 in purple and yellow nutsedge. *Weed Sci.* 51:13-18
- S. Chris Reberg-Horton, J.D. Burton, D.A. Danehower, G. Ma, D. W. Monks, J.P. Murphy, N.N. Ranells, J.D. Williamson, and N.G. Creamer. 2005. Changes Over Time In The Allelochemical Content Of Ten Cultivars Of Rye (*Secale Cereale* L.). *J. Chem. Ecol.* 31:179-193
- M. Finney, D.A. Danehower, and J.D. Burton. 2005. A Gas Chromatographic Method for the Analysis of Allelopathic Natural Products in Rye (*Secale cereale* L.). *J. Chromatography A*, 1066:249-253.
- Pedersen, M.K., J.D. Burton, and H.D. Coble. 2006. Effect of cyclanilide, ethephon, auxin transport inhibitors and temperature on leaf defoliation in bean plants. *Crop Science* 46:1666-1672
- Burke, I. C., J. D. Burton, J. W. Wilcut, and J. Cranmer. 2006. Mechanism of resistance to clethodim in a johnsongrass (*Sorghum halepense*) biotype. *Weed Sci.* 54:401-506.
- Burke, I. C., W. E. Thomas, J. D. Burton, J. F. Spears, and J. W. Wilcut. 2006. A seedling assay to screen aryloxyphenoxypropionic acid and cyclohexanedione resistance in johnsongrass (*Sorghum halepense*). *Weed Technol.* 20:950-955.
- Burke, I. C., J. B. Holland, A. C. York, J. D. Burton, and J. W. Wilcut. 2007. Johnsongrass (*Sorghum halepense*) pollen expresses ACCase target-site resistance. *Weed Technol.* 21:(In Press).