

## REFERENCES

- Bird, S.B., J.E. Herrick, M.M. Wander, and S.F. Wright. 2002. Spatial heterogeneity of aggregate stability and soil carbon in semi-arid rangeland. *Environ. Pollut.* 116: 445-455.
- Bradford, M.M. 1976. A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein-dye binding. *Anal. Biochem.* 72: 248-254.
- Dazzo, F.B. and S.F. Wright. 1996. Production of anti-microbial antibodies and their use in immunofluorescence microscopy. In A.D.L. Akkermans et al. (eds.) *Molecular Microbial Ecology Manual*. p. 1-27. Kluwer Academic Publishers.
- Franzluebbers, A.J., S.F. Wright, and J.A. Stuedemann. 2000. Soil aggregation and glomalin under pastures in the Southern Piedmont USA. *Soil Sci. Soc. Am. J.* 64: 1018-1026.
- Giovannetti, M., and B. Mosse. 1980. An evaluation of techniques for measuring vesicular arbuscular mycorrhizal infection in roots. *New Phytol.* 84: 489-500.
- Goding, J. W. 1986. *Monoclonal Antibodies: Principles and Practice*. Academic Press, New York.
- Gonzalez-Chavez M.C., R. Carillo-Gonzalez, S.F. Wright, and K.A. Nichols. 2004. The role of glomalin, a protein produced by arbuscular mycorrhizal fungi, in sequestering potentially toxic elements. *Environ. Pollut.* In Press.
- Hurrell, J. G. R. 1982. *Monoclonal hybridoma antibodies: Techniques and applications*. CRC Press, Boca Raton, FL.
- Lovelock, C.E., S.F. Wright, and K.A. Nichols. 2004. Using glomalin as an indicator for arbuscular mycorrhizal hyphal growth: an example from a tropical rainforest soil. *Soil Biol. Biochem.* In Press.
- Lovelock, C.E., S.F. Wright, D.A. Clark, R.W. Ruess. 2004. Stocks of glomalin produced by arbuscular mycorrhizal fungi in soil across a tropical rainforest landscape. *J. Ecol.* In press.
- Millner, P.D., and D.G. Kitt. 1992. The Beltsville method for soilless production of vesicular-arbuscular mycorrhizal fungi. *Mycorrhiza*. 2:9-15.
- Nichols, K.A. 2003. Characterization of glomalin, a glycoprotein produced by arbuscular mycorrhizal fungi. Ph.D. Dissertation. University of Maryland, College Park, MD.
- Nichols, K.A., S.F. Wright, M.A. Liebig, J.L. Pikul Jr. 2004. Functional significance of glomalin to soil fertility. In: Proc. of the Great Plains Soil Fertility Conference. March 2-3. Denver, CO. In Press.
- Nichols, K.A. and S.F. Wright. 2004. Isolation and comparison of extractable soil organic matter fractions. *Soil Biol. Biochem.* Submitted for review 1/12/04.
- Nichols, K.A. and S.F. Wright. 2004. Contributions of soil fungi to organic matter in agricultural soils. In F. Magdoff and R. Weil (Eds.). *Functions and Management of Soil Organic Matter in Agroecosystems*. CRC Press. In Press.
- Rillig, M.C., S.F. Wright, M.F. Allen, and C.B. Field. 1999. Rise in carbon dioxide changes soil structure. *Nature* 400: 628.

- Rillig, M.C., S.F. Wright, and V.T. Eviner. 2002. The role of arbuscular mycorrhizal fungi and glomalin in soil aggregation: Comparing effects of five plant species. *Plant Soil* 238: 325-333.
- Rillig, M.C., S.F. Wright, B.A. Kimball, P.J. Pinter, G.W. Wall, M.J. Ottman, and S.W. Leavitt. 2001a. Elevated carbon dioxide and irrigation effects on water stable aggregates in a Sorghum field: a possible role for arbuscular mycorrhizal fungi. *Glob. Change Biol.* 7: 333-337.
- Rillig, M.C., S.F. Wright, K.A. Nichols, W.F. Schmidt, M.S. Torn. 2001. Large contribution of arbuscular mycorrhizal fungi to soil carbon pools in tropical forest soils. *Plant Soil.* 233: 167-177.
- Wright, S.F. 1994. Serology and Conjugation of Antibodies. In R.W. Weaver et al. (eds.) *Methods of Soil Analysis, Part 2. Microbiological and Biochemical Properties.* p. 593-618. SSSA Book Series, no. 5. Madison, WI, USA.
- Wright, S.F. 2000. A fluorescent antibody assay for hyphae and glomalin from arbuscular mycorrhizal fungi. *Plant Soil* 226: 171-177.
- Wright, S.F. and R.L. Anderson. 2000. Aggregate stability and glomalin in alternative crop rotations for the central Great Plains. *Biol. Fertil. Soils* 31: 249-253.
- Wright, S.F., M. Franke-Snyder, J.B. Morton, and A. Upadhyaya. 1996. Time-course study and partial characterization of a protein on hyphae of arbuscular mycorrhizal fungi during active colonization of roots. *Plant Soil* 181: 193-203.
- Wright, S.F. and L. Jawson. 2001. A pressure cooker method to extract glomalin from soils. *Soil Sci. Soc. Am. J.* 65 (6): 1734-1735.
- Wright, S.F. and P.D. Millner. 1994. Dynamic processes of vesicular-arbuscular mycorrhizae: A mycorrhizosystem within the agroecosystem. In J.L. Hatfield and B.A. Stewart (eds.) *Advances in Soil Science. Soil Biology: Effects on Soil Quality.* p. 29-59. Lewis Publishers. Boca Raton, FL, USA.
- Wright, S.F. and J.B. Morton. 1989. Detection of vesicular-arbuscular mycorrhizal fungus colonization of roots by using a dot-immunoblot assay. *Appl. Environ. Microbiol.* 55: 761-763.
- Wright, S.F., J.B. Morton, and J.E. Sworobuk. 1987. Identification of a vesicular-arbuscular mycorrhizal fungus by using monoclonal antibodies in an enzyme-linked immunosorbent assay. *Appl. Environ. Microbiol.* 53: 2222-2225.
- Wright, S.F., J.L. Starr, and I.C. Paltineanu. 1999. Changes in aggregate stability and concentration of glomalin during tillage management transition. *Soil Sci. Soc. Am. J.* 63: 1825-1829.
- Wright, S.F. and A. Upadhyaya. 1996. Extraction of an abundant and unusual protein from soil and comparison with hyphal protein of arbuscular mycorrhizal fungi. *Soil Sci.* 161: 575-585.
- Wright, S.F., and A. Upadhyaya. 1998. A survey of soils for aggregate stability and glomalin, a glycoproteins produced by hyphae of arbuscular mycorrhizal fungi. *Plant Soil* 198: 97-107.

- Wright, S.F., and A. Upadhyaya. 1999. Quantification of arbuscular mycorrhizal fungi activity by the glomalin concentration on hyphal traps. *Mycorrhiza* 8: 283-285.
- Wright, S. F., A. Upadhyaya and J. S. Buyer. 1998. Comparison of N-linked oligosaccharides of glomalin from arbuscular mycorrhizal fungi and soils by capillary electrophoresis. *Soil Biol. Biochem.* 30: 1853-1857.
- Zola, H. 1987. Monoclonal antibodies: A manual of techniques. CRC Press, Boca Raton, FL.