

W.R. Sharp Resume
Page 2

GNP LLC Partner	1989-Present
Wellgen Inc. Director	1989-Present
Jersey Flora Inc. Director	1989-Present
Rutgers University Department of Plant Biology School of Environmental & Biological /Sciences Advisor/Consultant	1989-Present
The Ohio State University College of Arts & Sciences Advisory Committee	2003-Present
Global Institute for BioExploration Advisor/Consultant	2005-Present
Northeast Food Systems Consortium Steering Committee	1989-Present

Ohio State University 1969-1979

Courses Taught

Microbiology	640	General Cellular Biology
Microbiology	642	Cytodifferentiation
Microbiology	644	Plant Cell Tissue Culture
Botany	644	Plant Cell Tissue Culture
Microbiology	799	Seminar
Cell & Develop- mental Biology	799	Seminar

Graduate Students

Ph.D Students

Linda Caldas Harry
E. Sommer * Maro
R. Sondahl David
A. Evans * Sharon
Maraffa· Marinez
Molina·

M.S. Students

Antonio Natal Goncalves
Wei-Shen Shen
Rosa R. Raskin
Robert Reisner

- Co-Advisor

Organizer of Symposia

Organization of American States Training Course
Principles and Applications of Plant Cell Tissue Culture in
Agriculture, University of Sao Paulo, Piracicaba, S.P., Brazil July,
1972

Plant Cell and Tissue Culture: Principles and Applications An
International Symposium
Ohio State University, Columbus, Ohio 6-
7 September, 1997

Biotechnology for Plant Production
University of Sao Paulo
Piracicaba, S. P., Brazil
September, 1989

Honors

Fulbright Grantee	CENA, Univ. Sao Paulo	1971 & 1972
Org. Amer. States Fellow	CENA, Univ. Sao Paulo	1972 & 1973
CENEN Fellow	CENA, Univ. Sao Paulo	1972, 1974-1978
Foreign Correspondent	Sao Paulo Academy of Sciences	1987 - Present

W.R. "Rod" Sharp Conf. Facility Commemorating Scientific Collaboration & Friendship (1971 - 1988)	CEBTEC, Center for Biotechnology ESALQ School of Agronomy University of Sao Paulo Piracicaba, S.P. Brazil	
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Eminent Professor Research Medal Award	University of Sao Paulo	1999
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Other

Adjunct Professor	Ohio State University Department of Microbiology Columbus, Ohio 1981 - 1990	
Biotechnology Advisor	Department of Biology Beijing University Beijing, China 1989 - Present	
Adjunct Professor/Visiting Professor	Department of Plant Biology & Pathology Plant Biology Graduate Program Rutgers University New Brunswick, NJ 1982-Present	
Bostid Board, National Research Council, National Academy of Sciences		1985-1987
College of Agriculture Advisory Committee Ohio State University		1985-1988

Publications

Gordon, S. A., J. Shan-Miller, and W. R. Sharp (1966). Arabidopsis tissue culture. A. N. L. Annual reports.

Shen-Miller, J. and W. R. Sharp (1966). An Important medium for rapid initiation of Arabidopsis tissue culture from seed. Bull. Torrey Bot. Club 93:68-69.

Sharp, W. R. and D. Davidson (1968). The In vitro establishment of pith callus and nodal tumors of Brassica aleraceae. Plant Physiol. 44:468-470.

Sharp, W. R. and J. E. Gunckel (1969). Physiological comparisons of pith callus with crown gall and genetic tumors of Nicotiana glauca, N. langsdorfii and N. glauca-langsdorfi grown in vitro. II. Nutritional Physiology. Plant Physiol. 44:1073-1079.

Sharp, W. R. and J. E. Gunckel (1969). Physiological comparison of pith callus with crown gall and genetic tumors of Nicotiana glauca, N. langsdorfi and N. glauca-langsdorfi grown In vitro. I. Tumor induction and proliferation. Plant Physiol. 44:1059-1072.

Sharp, W. R., D. K. Dougall, and E. F. Paddock (1971). Haploids in Nicotiana and Lycopersicon. Bull. Torrey Bot. Club 98:219-222.

Gunckel, J. E., W. R. Sharp, and C. W. West (1972). Root and shoot initiation In sweet potato explants as related to polarity and nutrient media variation. Bot. Gaz. 133:254-261.

Sharp, W. R., R. S. Raskin, and H. E. Sommer (1972). The use of nurse culture In the development of haploid clones in Lycopersicon. Planta 104:357-361.

Sharp, W. R., R. S. Raskin, and H. E. Sommer (1972). Haploidy In Lilium.

Caldas, L. S., W. R. Sharp, and O. J. Crocomo (1972). Plant Tissue Culture-Applied, CENA Publications, Piracicaba, Brazil, 350 pp.

Lugo, J., O. J. Crocomo, W. R. Sharp, and V. da Cruz (1972). Effect of gamma irradiation on protein levels In Phaseolus vulgaris. CENA Tech. Bull, CENA Press, Piracicaba, Brazil. 150 pp.

Sharp, W. R., L. S. Caldas, O. J. Crocomo, L. C. Monaco, and A. Carvalho (1973). Production of Coffea arabica callus of three ploidy levels and subsequent morphogenesis. Phyton. 31:67-74.

Wu, P. H. L. and W. R. Sharp (1973). A rapid technique for the detection of nicotine in developing tobacco seedlings. The Ohio J. Sci. 73:353-356.

Peters, J. E., P. H. L. Wu, W. R. Sharp, and E. F. Paddock (1974). Rooting and the metabolism of nicotine In tobacco callus cultures. *Physiol. Plant.* 31:97-100.

Padmanabhan, V., E. F. Paddock, and W. R. Sharp (1974). Plantlet formation from Lycopericon esculentum Mill. leaf callus. *Can. J. Bot.* 52: 1429-1432.

Crocomo, O. J., J. E. Peters, and W. R. Sharp (1975). Phaseolus tissue culture - A monograph. CENA Press, CENA, Piracicaba, S. P., Brazil. 92 pp.

Crocomo, O. J., J. E. Peters, and W. R. Sharp (1975). The induction of shoot and root morphogenesis In Phaseolus vulgaris. *Annals de Escola Superior de Agricultura "Lulz de Queiroz"* 32:327-334.

Peters, J. E., W. R. Sharp, T. Tegenkamp, I. Tegenkamp, E. F. Paddock, and O. J. Crocomo (1977). Haploid callus cells from anthers of Phaseolus vulgaris. *Phytomorph.* 27:79-85.

Crocomo, O. J., F.A.P.C. Carvalho, W. R. Sharp, G. Brandel, and P.C.T. Carvalho (1979). Hormonal control of cellular phenotype and induction of globular embryos In tissue cultures of Coffea arabica cv. *Catual. Revista Energla Nuclear & Agricultura* 1:41-47.

Sharp, W. R., P. O. Larsen, E. F. Paddock, and V. Raghavan (1979). *Plant Cell and Tissue Culture: Principles and Applications*. The Ohio State University Press, Columbus. 892 pp.

Sondahl, M. R., W. R. Sharp, L. C. Monaco, and A. Carvalho (1979). Agricultural applications of coffee tissue culture. In: *Plant Cell and Tissue Culture: Principles and Applications* (W. R. Sharp, P. O. Larsen, E. F. Paddock, and V. Raghavan, Eds.). The Ohio State University Press, Columbus, OH. p. 572-584.

Goncalves, A. N., M. A. Machado, L. S. Caldas, W. R. Sharp, and H. A. Mello (1979). Tissue culture of Eucalyptus. In: *Plant Cell and Tissue Culture: Principles and Applications*. (W. R. Sharp, P. O. Larsen, E. F. Paddock, and V. Raghavan, Eds.). The Ohio State University Press, Columbus, OH. p. 509-526.

Sondahl, M. R., T. L. Salisbury, and W. R. Sharp (1979). SEM characterization of embryogenic tissue and globular embryos during high frequency somatic embryogenesis In coffee callus cells. *Z. Pflanzenphysiol.* 94: 185-188.

Crocomo, O. J., W. R. Sharp, M. T. V. de Carvalho (1979). Controle da morfogenese e desenvolvimento de plantas em cultura de tecido de cana-de-acucar - resultados experimentais. *Proceeding of the 1st Congresso da Sociedade Brasileira de Tecnicos Acucareiros (STAB)*,

Sharp, W. R. and M. R. Sondahl (1980). Production of haploid plants. Proceedings of the Second Latin American Botanical Congress, University of Brasilia Press, Brasilia.

Spahlinger, D. A, M. R. Sondahl, and W. R. Sharp (1979). A histological study of high frequency and low frequency somatic embryos In cultured leaf explants of Coffea arabica L. Z. Pflanzenphysiol. 94:101-108.

Sondahl, M. R., M. Chapman, and W. R. Sharp (1980). Protoplast liberation, cell wall reconstitution, and callus proliferation In Coffea arabica L. tissues. Turrialba 30:161-165.

Caldas, L. S., W. R. Sharp, and O. J. Crocomo (1980). Callus cultures from seeds and anthers of Sesamum Indicum L. Revista Energia Nuclear & Agricultura 26:403-411.

Sharp, W. R., M. R. Sondahl, L. S. Caldas, and S. F. Maraffa (1980). The physiology of asexual embryogenesis. In: Horticultural Reviews II, J. Janick, ed. AVI Publishing Company, Westport.

Sondahl, M. R., D. A Evans, and W. R. Sharp (1980). Coffee cell culture. In: Newsletter of the International Plant Tissue Culture Association 30:2-7, Japan.

Tonin, G. S., M. T. V. C. Debyshire, W. R. Sharp, and O. J. Crocomo (1981). Amino acids In the callus growth and root morphogenesis of bean (phaseolus vulgaris) leaves In vitro. Turrialba 31:245-252.

Evans, D. A, W. R. Sharp, and C. E. Flick (1981). Plant regeneration from cell cultures. In: Horticultural Reviews, Vol. III. J. Janick, ed. AVI Publishing Co., Inc., Westport. p. 268-310.

Evans, D. A, C. E. Flick, and W. R. Sharp (1981). Growth and behavior of cell cultures: Embryogenesis and organogenesis. In: Plant Tissue Culture: Methods and Applications in Agriculture. T. A Thorpe, Ed. Academic Press, NY. p. 45-113.

Sharp, W. R. and D. A Evans (1981). Patterns of plant regeneration: Opportunities for cloning or production of genetic variability. IAPTC Newsletter 35:2-8.

Maraffa, S. B., W. R. Sharp, H. K. Tayama, and T. A. Fretz (1981). Apparent asexual embryogenesis In cultured leaf sections of Hova. Z. Pflanzenphysiol. 102:45-55.

Sharp, W. R. and D. A Evans (1981). Plant tissue culture: The foundation for genetic engineering In higher plants. pp. 23-38. In: Proc. Int. Symposium on Genetic Engineering, O. J. Crocomo, Ed.

Evans, D. A and W. R. Sharp (1982). Application of tissue culture technology in the agricultural industry. Univ. of Guelph Press. pp. 209-231.

Sharp, W. R., D. A Evans, C. E. Flick, and H. E. Sommer (1982). Strategies and specifications for management of in vitro plant propagation. In: U.S.D.A. Symposium on Plant Propagation, W. Meudt, Ed. Allanheld, Osumum; Totowa, NJ. pp. 287-303.

Evans, D. A, and W. R. Sharp (1982). Application of tissue culture technology in the agricultural industry. In: D. Tomes, et al., Eds. Techniques and Application of Plant Cell and Tissue Culture to Agriculture and Industry. Univ. of Guelph Press. p. 209-231.

Sharp, W. R. and D. A. Evans, and M. R. Sondahl (1982). Application of somatic embryogenesis to crop improvement. In: A. Fujiwara, Ed. Plant Tissue Culture 1982. Proceedings of Vth International Congress of Plant Tissue Culture, Japan. pp. 759-762.

Flick, C. E., D. A. Evans, and W. R. Sharp (1983). Organogenesis. In: D. A Evans, et al., Eds. Handbook of Plant Cell Culture, Vol. I Macmillan Press, pp. 13-81.

Evans, D. A, J. E. Bravo, and W. R. Sharp (1983). Applications of tissue culture technology to development of improved crop varieties. Biotech '83. Proceedings of the International Conference on the Commercial Applications and Implications of Biotechnology. pp. 491-511.

Evans, D. A and W. R. Sharp (1983). Single gene mutations In tomato plants regenerated *horn* tissue culture. Science 221:949-951.

Sharp, W. R. and D. A. Evans (1984). Haploid Plants, Chapter 13. In: Contemporary Bases for Crop Breeding Vose and S. Blixt, Eds. Pergamon Press, pp. 347-381.

Evans, D. A., W. R. Sharp, and J. E. Bravo (1984). Application of tissue culture for crop Improvement. In: W. R. Sharp, et al., Eds. Handbook of Plant Cell Culture, Vol. 2. Macmillan Press, pp. 47-68.

Sharp, W. R., D. A Evans, and P. V. Ammirato (1984). Plant genetic engineering: designing crops to meet food industry specification. Food Technology 38: 112-119.

Evans, D. A., W. R. Sharp, and H. P. Medina-Filho (1984). Somaclonal and gametoclonal variation. Amer. J. Bot. 71(6):759-774.

Sharp, W. R., D. A. Evans, and P. V. Ammirato (1984). Plant genetics poised to revolutionize agriculture. European Chemical News Biotechnology Supplement, May.

Ammirato, P. V., D. A. Evans, C. E. Flick, R. J. Whitaker, and W. R. Sharp (1984). Biotechnology and agricultural Improvement. Trends In Biotechnology 2(3):1-6.

Evans, D. A. and W. R. Sharp (1986). Somaclonal and Gametoclonal Variation. In: D. A. Evans, W. R. Sharp, P. V. Ammirato, Eds. Handbook of Plant Cell Culture, Vol. 4. Macmillan Press. pp. 43-97.

Sharp, W. R. and D. A. Evans (1986). Plant Cell Culture: The foundation for genetic engineering In higher plants. In: O. J. Crocomo, W. R. Sharp, D. A. Evans, J. E. Bravo, T. C. A. Tavares, E. F. Paddock, Eds. Biotechnology of Plants and Microorganisms. Ohio State University Press, Columbus, OH, pp. 69-84.

Crocomo, O. J., W. R. Sharp, D. A. Evans, J. E. Bravo, T. C. A. Tavares, E. F. Paddock (1986). Biotechnology of Plants and Microorganisms. Ohio State University Press, Columbus. 473 p.

Sharp, W. R., R. J. Whitaker, M. R. Sondahl, D. A. Evans, J. E. Bravo, J. F. Marsden, and T. J. Orton (1986). Opportunities for biotechnology development of new edible vegetable oil products. JOACS 63(5):594-600.

Evans, D. A., W. R. Sharp, and J. E. Bravo (1986/87). Plant somaclonal variation and mutagenesis. Nestle Research News, pp. 63-71.

Sharp, W. R. (1986). Use of biotechnology In the development of plants with added value for Industry. XI Simposio Anual, Volume II, pp. 1-8; CESP /CPFL/ELETROPAULO/COMGAS; Secretaria da Industria, Comercio, Ciencia e Tecnologia Fundacao de Amparo a Pesquisa do Estado de Sao Paulo.

Crocomo, O. J., W. R. Sharp & M. Melo (eds) (1991), Biotecnologia Para Producao Vegetal, Biotechnology for Plant Production, CEBTEC, ESALQ, University of Sao Paulo Press, 539p., Sao Paulo.

Sharp, W. R. (1991), New Horizons In the Improvement of Plants. In: O. J. Crocomo, W. R. Sharp and M. Melo (eds) (1991). Biotecnologia Para Producao Vegetal, Biotechnology for Plant Production, CEBTEC, ESALQ, University of Sao Paulo Press, 539 pp, Sao Paulo.

Davidson, D. & W. R. Sharp (1993) Plant Based Pharmaceuticals, In: PHYTOpharmaceuticals, Ed. M. Balick, Columbia University Press, New York.

Sharp, W. R. with D. A. Evans, F. A. Ammirato, Y. Yamada, and Y. Bajaj (1985-1990), Volumes 1-6, The Handbook of Plant Cell Culture, McGraw Hill Publishing, New York.