

Publications of Grass & Cereal Biotechnology Research

Refereed Journal Articles and Book Chapters:

- Conger, B. V., G. E. Hanning, D. J. Gray and J. K. McDaniel, Direct embryogenesis from mesophyll cells of orchardgrass, *Science* 221, 1983, 850-851.
- Gray, D. J., B. V. Conger and G. E. Hanning, Somatic embryogenesis in suspension and suspension-derived callus cultures of *Dactylis glomerata*, *Protoplasma* 122, 1984, 196-202.
- Gray, D. J. and B. V. Conger, Influence of dicamba and casein hydrolysate on somatic embryo number and culture quality in cell suspensions of *Dactylis glomerata* (Gramineae), *Plant Cell Tiss. Org. Cult.* 4, 1985, 123-133.
- Gray, D. J. and B. V. Conger, Time-lapse light photomicrography and scanning electron microscopy of somatic embryo ontogeny from cultured leaves of *Dactylis glomerata* (Gramineae), *Trans. Amer. Microsc. Soc.* 104, 1985, 395-399.
- Gray, D. J. and B. V. Conger, Somatic embryo ontogeny in tissue cultures of orchardgrass, *In: R. Henke, K. W. Hughes, M. J. Constantin, and A. Hollaender, Eds., Tissue Culture in Forestry and Agriculture*, Plenum Press, New York, 1985, pp. 49-57.
- Gray, D. J., Quiescence in monocotyledonous and dicotyledonous somatic embryos induced by dehydration, *In: Proc. Symp. Synthetic Seed Technology for the Mass Cloning of Crop Plants: Problems and Perspectives*, 22nd. Int. Hort. Cong., Davis, Calif., HortScience 22, 1987, 810-814.
- Gray, D. J., Introduction to the symposium, *In: Proc. Symp. Synthetic Seed Technology for the Mass Cloning of Crop Plants: Problems and Perspectives*, 22nd Int. Hort. Cong., Davis, Calif., HortScience 22, 1987, pp. 796-797.
- Conger, B. V., R. N. Trigiano and D. J. Gray, Cell culture of the Poaceae (Gramineae), *Proc. NATO Advanced Study Institute on "Plant Cell Biotechnology"*, Vol. H18, Springer-Verlag, Heidelberg, 1988, pp. 49-61.

- Gray, D. J., Somatic cell culture and embryogenesis in the Poaceae, Chapter 3, *In: M. J. Kasperbauer (Ed.), Biotechnology in Tall Fescue Improvement*, CRC Press, Boca Raton, FL, 1990, pp. 25-57.
- Gray, D. J., Synthetic seed for clonal propagation of crop plants, Proc. 3rd Int. Symp. Seeds, *In: R. B. Taylorson (Ed.) Recent Advances in the Development and Germination of Seeds*, NATO ASI Series, Series A: Life Sciences, Plenum, New York, 1990, pp. 29-45.
- Gray, D. J. and A. Purohit, Quiescence and dormancy in somatic embryos, *In: Y. P. S. Bajaj (Ed.) Biotechnology in Agriculture and Forestry*, vol. 17, High-tech and Micropropagation, I. Springer-Verlag, Heidelberg, 1991, pp. 382-394.
- Gray, D. J., R. N. Trigiano and B. V. Conger, Liquid suspension culture production of orchardgrass somatic embryos and their potential for the breeding of improved varieties, *In: K. Redenbaugh (Ed.) SynSeeds: Applications of Synthetic Seeds to Crop Improvement*. CRC Press, Boca Raton, 1992. pp. 351-366.
- Gray, D. J., Non-zygotoc embryogenesis, Topic chapter, *In: R. N. Trigiano, D. J. Gray (Eds.), Plant Tissue Culture Concepts and Laboratory Exercises*, CRC Press, 1996, pp. 133-147.
- Gray, D. J., B. V. Conger and R. N. Trigiano, Somatic embryogenesis from leaves of orchardgrass, Laboratory exercise, *In: R. N. Trigiano and D. J. Gray (Eds.), Plant Tissue Culture Concepts and Laboratory Exercises*, CRC Press, 1996, pp. 149-160.
- Li, Z. J. and N Murai (1995) Agronomic trait evaluation of field-grown transgenic rice plants containing the hygromycin resistance gene and the maize *Activator* element. *Plant Science* 108:219-227.
- Li, Z. J., QJ Xie, MC Rush and N Murai (1992) Fertile transgenic rice plants generated via protoplasts from the U.S. cultivar Labelle. *Crop Science* 32:810-814.

Abstracts:

- Gray, D. J., B. V. Conger and D. D. Songstad, Desiccated quiescent somatic embryos of orchardgrass for use as synthetic seeds, *In Vitro Cell. Dev. Biol.* 23, 1987, 29-33.
- Conger, B. V., D. J. Gray and R. N. Trigiano, In vitro culture of the Gramineae, *ACEVIV* 3, 1988, 19-28.

Conger, B. V., J. C. Hovanesian, R. N. Trigiano and D. J. Gray, Somatic embryo ontogeny in suspension cultures of orchardgrass, *Crop Sci.* 29, 1989, 448-452.

Gray, D. J. and A. Purohit, Somatic embryogenesis and development of synthetic seed technology, *Critical Rev. Plant Sci.* 10, 1991, 33-61.

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Gray, D. J., R. N. Trigiano and B. V. Conger, Classroom exercises in the study of orchardgrass somatic embryogenesis, *Proc. Workshop Novel Laboratory Exercises in Plant Tissue Culture, HortTechnology* 4, 1994, 322-325.