

Publications: Legal

- Lim, D. and R. M. D. Makowski. 2023. Penn State Dickinson Law Profiles in Leadership Series – Feeding the World. January 11, 2023, at YouTube Penn State Dickinson Law.
- Makowski, R. 2020. Highlighted as a Pennsylvania Trailblazer. The Legal Intelligencer, Supplement. November 2020.
- McMorrow, R. G. Jr. and R. M. D. Makowski. 2011. MX: The Myriad DNA Case – An Update. MDDI Medical Device Industry News Products and Suppliers at <http://www.mddionline.com>.
- Conley, J. M. and R. M. D. Makowski. 2003. Back to the future: Rethinking the product of nature doctrine as a barrier to Biotechnology patents. Journal of the Patent and Trademark Office Service 85:301-334, 371-398.

Presentations: Legal

- Intellectual Property at FMC*. Guest lecturer at Penn State Dickinson Law School Patent Law course. February 21, 2023, virtual.
- FMC Women of Law Leaders: Breaking the Bias*. Invited panelist at the Women’s Initiative Network (WIN), FMC employee resource group. March 2022.
- Deploying DEI – Strategies to Maximize Workforce Engagement Through Diversity, Equity and Inclusion*. Invited panelist at the Association of Corporate Counsel (ACC) Greater Philadelphia Diversity Summit. February 7, 2022, Philadelphia, Pennsylvania.
- Resiliency: Taking a Closer Look at the Role of the IP Leader Over the Past Year*. Invited panelist at Consero Global IP Management and Life Sciences Virtual Forum. June 7, 2021.
- The “Bowman” and “Myriad” Supreme Court Decisions*. United States Patent and Trademark Office Biotechnology/Chemical/Pharmaceutical Customer Partnership Meeting. December 9, 2013, Alexandria, Virginia.
- Mayo v. Prometheus*. R. Makowski and H. Sauer. United States Patent and Trademark Office Biotechnology/Chemical/Pharmaceutical Customer Partnership Meeting. June 6, 2012, Alexandria, Virginia.
- The Myriad Case (Assoc. for Molecular Pathology v. USPTO): Its Implications for Patent Practitioners and The Biotech Industry*. United States Patent and Trademark Office Biotechnology/Chemical/Pharmaceutical Customer Partnership Meeting. September 13, 2011, Alexandria, Virginia.
- Whether and How to Protect Your Innovations: Initial Considerations*. Division of Chemistry and the Law, American Chemical Society (ASC) 41st Middle Atlantic Regional Meeting, April 11, 2010, Wilmington, Delaware.
- Patent Law: A Primer for In-House Counsel*. CLE invited speaker at the Delaware State Bar Association Corporate Counsel Section. May 12, 2008, Wilmington, Delaware.
- Pending USPTO Rules and Effect on the Patent Management Process*. Invited speaker at Patent Roundtable at the Corporation Service Company (CSC). Jan. 30, 2008, Wilmington, Delaware.
- DNA Function for Understanding Gene Patents*. Invited speaker at the University of North Carolina Law School course on Technology and Intellectual Property. Feb. 2001, Chapel Hill, North Carolina.

Publications: Scientific

- Makowski, R. M. D. and K. Mortensen. 1999. Latent infections and residues of the bioherbicide *Colletotrichum gloeosporioides* f. sp. *malvae* on non-target field crops under field conditions. Weed Science 47:589-595.

- Makowski, R. M. D. and K. Mortensen. 1998. Latent infections and penetration of the bioherbicide agent *Colletotrichum gloeosporioides* f. sp. *malvae* in non-target field crops under controlled environmental conditions. Mycological Research 102:1545-1552.
- Mortensen, K. and R. M. D. Makowski. 1997. Effects of *Colletotrichum gloeosporioides* f. sp. *malvae* on plant development and biomass of non-target field crops under controlled and field conditions. Weed Research 37:351-360.
- Makowski, R. M. D. 1995. Round-leaved mallow (*Malva pusilla*) interference in spring wheat (*Triticum aestivum*) and lentil (*Lens culinaris*) in Saskatchewan. Weed Science 43:381-388.
- Mortensen, K. and R. M. D. Makowski. 1995. Tolerance of strawberries to *Colletotrichum gloeosporioides* f. sp. *malvae*, a mycoherbicide for control of round-leaved mallow (*Malva pusilla*). Weed Science 43:429-433.
- Makowski, R. M. D. 1995. Regulating microbial pest control agents in Canada: the first mycoherbicide. Proc. VIII Int. Symp. Biol. Contr. Weeds, 2-7 Feb. 1992, Lincoln University, Canterbury, New Zealand. E. S. Delfosse and R. R. Scott, eds. DSIR/ CSIRO, Melbourne, pp. 641-647.
- Mortensen, K. and R. M. D. Makowski. 1994. Rejection of a *Colletotrichum trifolii* strain, isolated from red clover, for biological control of black medic on the basis of pathogenicity to cultivated clovers. Biological Control 4:366-372.
- Makowski, R. M. D. 1993. Effect of inoculum concentration, temperature, dew period, and plant growth stage on disease of round-leaved mallow and velvetleaf by *Colletotrichum gloeosporioides* f. sp. *malvae*. Phytopathology 83:1229-1234.
- Makowski, R. M. D. and K. Mortensen. 1992. The first mycoherbicide in Canada: *Colletotrichum gloeosporioides* f. sp. *malvae* for round-leaved mallow control. Proceedings 1st International Weed Control Congress, Melbourne, Australia, 2:298-300.
- Grant, N. T., E. Prusinkiewicz, R. M. D. Makowski, B. Holmström-Ruddick, and K. Mortensen. 1990. Effect of selected pesticides on survival of *Colletotrichum gloeosporioides* f. sp. *malvae*, a bioherbicide for round-leaved mallow (*Malva pusilla*). Weed Technology 4:701-715.
- Grant, N. T., E. Prusinkiewicz, K. Mortensen, and R. M. D. Makowski. 1990. Herbicide interactions with *Colletotrichum gloeosporioides* f. sp. *malvae* a bioherbicide for round-leaved mallow (*Malva pusilla*) control. Weed Technology 4:716-723.
- Makowski, R. M. D. and K. Mortensen. 1990. *Colletotrichum gloeosporioides* f. sp. *malvae* as a bioherbicide for round-leaved mallow (*Malva pusilla*): Conditions for successful control in the field. Proc. VII Int. Symp. Biol. Contr. Weeds, 6-11 March 1988, Rome, Italy. Delfosse, E. S. (ed.). Ist. Sper. Patol. Veg. (MAF), pp. 513-522.
- Mortensen, K. and R. M. D. Makowski. 1990. Field efficacy at different concentrations of *Colletotrichum gloeosporioides* f. sp. *malvae* as a bioherbicide for round-leaved mallow (*Malva pusilla*). Proc. VII Int. Symp. Biol. Contr. Weeds, 6-11 March 1988, Rome, Italy. Delfosse, E. S. (ed.). Ist. Sper. Patol. Veg. (MAF), pp. 523-530.
- Makowski, R. M. D. and I. N. Morrison. 1989. The Biology of Canadian Weeds. 91. *Malva pusilla* Sm. (= *Malva rotundifolia* L.). Can. J. Plant Sci. 69:861-879.
- Mortensen, K., P. Harris, and R. M. D. Makowski. 1989. First occurrence of *Puccinia jaceae* var. *diffusae* in North America on diffuse knapweed (*Centaurea diffusa*). Can. J. Plant Pathol. 11:322-324.
- Boyle-Makowski, R. M. D. 1987. The importance of native pollinators in cultivated orchards: their abundance and activities in relation to weather conditions. Proc. Ent. Soc. Ont. 118:125-141.

Boyle-Makowski, R. M. D. and B. J. R. Philogène. 1985. Pollinator activity and abiotic factors in an apple orchard. Can. Ent. 117:1509-1521.

Boyle, R. M. D. and B. J. R. Philogène. 1983. The native pollinators of an apple orchard: variations and significance. J. Hort. Sci. 58:355-363.

Publications: Book Chapters

Makowski, R. M. D. 1997. Foliar pathogens in weed biocontrol: ecological and regulatory constraints. In Ecological Interactions and Biological Control. D. A. Andow, D. W. Ragsdale and R. F. Nyvall (eds.). Westview Press. pp. 87-103.

Makowski, R. M. D. 1990. Regulating biocontrol: Problems and opportunities. A researcher's perspective. In Pest Control Canada. A reference manual. Sixth edition. E. H. Clutton (ed.), PACS Burlington, Ontario. pp. 1-7.

Publications: Abstracts

Makowski, R. M. D. and J. D. Miller. 1995. Metabolites from fungal pathogens used as bioherbicides: opportunities and risks. Can. J. Plant Pathol.

Makowski, R. M. D. and J. D. Miller. 1995. Phytotoxic metabolites of *Colletotrichum gloeosporioides* f. sp. *malvae*, a mycoherbicide for round-leaved mallow control. Proc. VIII Int. Symp. Biol. Contr. Weeds, 2-7 Feb. 1992, Lincoln University, Canterbury, New Zealand. Delfosse, E. S. and R. R. Scott (eds.). DSIR/CSIRO, Melbourne, p. 703.

Mortensen, K. and R. M. D. Makowski. 1995. Effect of the mycoherbicide, *Colletotrichum gloeosporioides* f. sp. *malvae*, on control of round-leaved mallow in strawberries. Proc. VIII Int. Symp. Biol. Contr. Weeds, 2-7 Feb. 1992, Lincoln University, Canterbury, New Zealand. Delfosse, E. S. and R. R. Scott (eds.). DSIR/CSIRO, Melbourne, p. 523.

Makowski, R. M. D. and J. D. Miller. 1993. Phytotoxic metabolites of *Colletotrichum gloeosporioides* f. sp. *malvae*, a mycoherbicide for round-leaved mallow control. Abstracts 6th International Congress of Plant Pathology, Aug. 1993, Montreal, p. 59.

Makowski, R. M. D. and K. Mortensen. 1993. Effect of a mycoherbicide, *Colletotrichum gloeosporioides* f. sp. *malvae*, on non-target crop plants under controlled and field conditions. Abstracts 6th International Congress of Plant Pathology, Aug. 1993, Montreal, p. 59.

Makowski, R. M. D. 1992. Identification of *Colletotrichum gloeosporioides* f. sp. *malvae* for registration and patenting. Plant Protection Quarterly 7:172.

Makowski, R. M. D. and K. Mortensen. 1990. Registration requirements for bioherbicides: environmental toxicology and food residue of *Colletotrichum gloeosporioides* f. sp. *malvae* on crop plants. Expert Committee on Weeds, Minutes (ECW Western Section), poster session.

Makowski, R. M. D. and K. Mortensen. 1990. Tolerance of safflower and sugar beet varieties to *Colletotrichum gloeosporioides*. Expert Committee on Weeds, Western Section, Research Reports. 4 Abstracts.

Makowski, R. M. D. 1989. Carry-over and field persistence of *Colletotrichum gloeosporioides* f. sp. *malvae*, a mycoherbicide for control of *Malva pusilla* Sm. Can. J. Plant Pathol. 11:194.

Makowski, R. M. D. and K. Mortensen. 1989. Tolerance of wheat, flax, lentil, canola, mustard, safflower, sunflower, and sugar beet varieties to *Colletotrichum gloeosporioides*. Expert Committee on Weeds, Western Section, Research Reports. 16 Abstracts.

Makowski, R. M. D. and K. Mortensen. 1988. Tolerance of wheat, flax, lentil, canola, mustard, safflower, sunflower varieties to *Colletotrichum gloeosporioides*. Expert Committee on Weeds, Western Section, Research Reports. 14 Abstracts.

Makowski, R. M. D. 1987. A fungal bioherbicide (*Colletotrichum gloeosporioides*) for round-leaved mallow (*Malva pusilla* Sm.) control: Its field persistence. Abstract. Expert Committee on Weeds, Minutes (ECW Western Section), poster session. p. 38.

Makowski, R. M. D. 1986. A new bioherbicide for control of round-leaved mallow (*Malva pusilla* Sm.). Abstract. Expert Committee on Weeds, Minutes (ECW Western Section), poster session. p. 23.

Publications: Miscellaneous

Makowski, R. M. D. (ed.) 1993. Proceedings of the first annual meeting of the Canadian Forum for Biological Control. Sept. 1993, Saskatoon, Saskatchewan, Canada. 55 pp.

Makowski, R. M. D. 1987. The evaluation of *Malva pusilla* Sm. as a weed and its pathogen *Colletotrichum gloeosporioides* (Penz.) Sacc. f. sp. *malvae* as a bioherbicide. Ph.D. Dissertation, University of Saskatchewan, Saskatoon. 225 pp.

Agriculture Canada. 1984. Compendium of Licensed Varieties/Compendium de variétés homologuées, Potatoes/Pommes de terre. Agriculture Canada, Ottawa. Publ. No. A54-7/1-1984. (Original in French and English prepared by R. M. D. Boyle, translated later into eight other languages).

Kelleher, J. S. and R. M. D. Boyle. 1984. The Canadian Agricultural Insect Pest Review. Ten-year index, Volumes 51-60, 1973-82. Agriculture Canada, Ottawa. 158 pp.

Kelleher, J. S. and R. M. D. Boyle. 1983. The Canadian Agriculture Insect Pest Review, Volume 60, 1982. Agriculture Canada, Ottawa. 91 pp.

Boyle, R. M. D. 1981. Significance of native pollinators in apple orchards. M. Sc. Dissertation. University of Ottawa, Ottawa. 129 pp.

Presentations: Scientific/Academic

Biological control of weeds. Invited speaker at the University of Delaware course on Integrated Pest Management. April 1999, Newark, Delaware.

The Use of Power Point and Multi-Media Technology in the Classroom. Presented at workshop on "Technology in Teaching" at the Annual Faculty Development Meeting, Wilmington College. Oct. 1998, New Castle, Delaware.

Bioherbicides: Discovery, development, commercialization, and the future? Invited speaker at the DuPont Agricultural Products Biology Seminar Series, Stine-Haskell Research Centre. March 1997, Newark, Delaware.

Plant pathogens used as bioherbicides: Is there a future? The BioMal story. Presented at the 52nd annual meeting of the American Phytopathological Society, Potomac Division, Virginia Polytechnic Institute. March 1995, Blacksburg, Virginia.

Biological control of weeds using plant pathogens. Invited speaker at University of Delaware graduate course on Current topics in plant pathology. March 1995, Newark, Delaware.

Metabolites from fungal pathogens used as bioherbicides: opportunities and risks. Second International Bioherbicide Workshop. Aug. 1993, Montréal, Québec, Canada.

Environmental constraints on bioherbicide efficacy and how to overcome them. Invited presentation and discussion chair, Second International Bioherbicide Workshop. Aug. 1993, Montréal, Québec, Canada.

- Foliar pathogens in weed biocontrol: ecological and regulatory constraints.* Invited speaker at the Symposium on Ecological Interactions and Biological Control, University of Minnesota, Oct. 1992, Minneapolis, Minnesota.
- Regulating microbial pest control agents in Canada: the first mycoherbicide.* Presented at the VIII International Symposium on Biological Control of Weeds, Feb. 1992, Canterbury, New Zealand.
- Identification of Colletotrichum gloeosporioides f. sp. malvae for registration and patenting.* Presented at the 1st International Bioherbicide Workshop, Feb. 1992, Orange, N. S. W., Australia.
- The first mycoherbicide in Canada: Colletotrichum gloeosporioides f. sp. malvae for round-leaved mallow control.* Presented at the 1st International Weed Control Congress, Feb. 1992, Melbourne, Australia.
- Biological Control of Weeds.* Invited speaker at the Saskatchewan Institute of Agrologist, 1990, Regina Branch meeting, Regina, Saskatchewan, Canada.
- Registration requirements for bioherbicides: environmental toxicology and food residue of Colletotrichum gloeosporioides f. sp. malvae on crop plants.* Poster presented at Biocontrol Symposium, October 1990, Calgary, Alberta, Canada.
- Regulating biocontrol: problems and opportunities. A researcher's perspective.* Invited speaker at the Canadian Pest Management Society, 69th Annual Conference of the Agricultural Institute of Canada, July 9-13, 1989, McGill University, Montréal, Québec, Canada.
- Carry-over and field persistence of Colletotrichum gloeosporioides f. sp. malvae, a mycoherbicide for control of Malva pusilla Sm.* Presented at the Canadian Phytopathological Society annual meeting, July 1989, McGill University, Montréal., Québec, Canada.
- Effects of weather conditions on abundance and activities of pollinators in orchards.* Invited speaker at the Ontario Horticultural Crops Conference and Trade Show, Pollinators and Bees Symposium, Feb. 1989, Toronto, Ontario, Canada.
- Colletotrichum gloeosporioides f. sp. malvae as a bioherbicide for round-leaved mallow (Malva pusilla): conditions for successful control in the field.* Presented at the VII International Symposium on Biological Control of Weeds, March 1988, Rome, Italy.
- Biocontrol of weeds: bioherbicides.* Invited speaker at the Canadian Pest Management Society, Annual Conference of the Agricultural Institute of Canada, July 1986, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.
- The importance of native pollinators in cultivated orchards: their abundance and activities in relation to weather conditions.* Invited speaker at Symposium on Alternate Pollinators, 1986, University of Guelph, Guelph, Ontario, Canada.
- Canada and the Commonwealth Agricultural Bureaux in international-biological control.* Presented with Drs. K. P. Karl and F. D. Bennett at the Entomological Societies of America, Canada, and Ontario, 1982 joint annual meeting, Toronto, Ontario, Canada.
- The importance of native pollinators in cultivated orchards.* Presented at the 31st annual meeting of the Entomological Society of Canada, 1981, Banff, Alberta, Canada.
- The activity of wild pollinators in apple orchards.* Presented at the 30th annual meeting of the Entomological Society of Canada, 1980, Québec, Québec, Canada.
- The variations and significance of wild pollinators in apple orchards.* Presented at the 29th annual meeting of the Entomological Society of Canada, 1979, Vancouver, B.C., Canada.

Compiler or Editor

- Makowski, R. M. D. 2000. Laboratory Manual, SCI 105 Physical Science. Wilmington College, New Castle, Delaware.
- Kelleher, J. S. and M. A. Hulme. 1984. Biological control programmes against insects and weeds in Canada 1969-1980. Commonwealth Agricultural Bureaux, Farnham Royal, England. 410 pp.
- Spencer, E. Y. 1981. Guide to the chemicals used in crop protection. Agriculture Canada. Publ. No. A43-1093/1982E. 595 pp.
- Lee, D. S., C. R. Gilbert, C. H. Hocutt, R. E. Jenkins, D. E. McAllister and J. R. Stauffer, Jr. 1980. Atlas of North American freshwater fishes. North Carolina State Museum of Natural History. 854 pp.

Patents

United States Patent No. 5,296,369.