

Marsha C. Black, PhD

Department of Environmental Health Science
College of Public Health
University of Georgia
Athens, GA 30602-2102

(706) 542-0998 (Phone)
(706) 542-7472 (Fax)
mblack@uga.edu
<http://www.uga.edu/publichealth/ehs>

Education:

PhD	Ecology	University of Tennessee	1989
BA	Comprehensive Science	Converse College	1975

Academic and Research Experience:

7/06-present Interim Department Head, Department of Environmental Health Science, College of Public Health, The University of Georgia, Athens, GA
7/00 – 7/06 Associate Professor and Undergraduate Coordinator (7/01-present), Department of Environmental Health Science, The University of Georgia, Athens, GA
1/95 - 6/00 Assistant Professor, Department of Environmental Health Science, The University of Georgia, Athens, GA
8/90 - 12/94 Assistant Professor, Department of Zoology, Oklahoma State University, Stillwater, OK
5/89 - 7/90 Postdoctoral Research Associate, Department of Biology, University of Joensuu, Joensuu, Finland

Peer-reviewed Publications

1. Chong, K.P., R.M. Burch, M. Black, E. Maloney, D.J. Jollow, and P.V. Halushka. 1983. Vasopressin stimulates thromboxane synthesis in isolated hamster hepatocytes: Relationship to hepatocyte calcium content. *Prostaglandins* 26:397-408
2. McCarthy, J.F., B.D. Jimenez, G.R. Southworth, D.M. DiToro, and M.C. Black. 1986. Anomalous binding of organic contaminants may be artifactual due to radiochemical impurities. *Water Research* 20:1251-1254.
3. McCarthy, J.F. and M.C. Black. 1987. Partitioning between dissolved organic macromolecules and suspended particulates: Effects on bioavailability and transport of hydrophobic organic contaminants in aquatic systems. In: W. J. Adams, G. A. Chapman, and W. G. Landis (Eds.), *Aquatic Toxicology and Hazard Assessment: Tenth Volume, ASTM STP 971*. American Society for Testing and Materials, Philadelphia, PA, pp. 233-246.
4. Black, M.C. and J.F. McCarthy. 1988. Dissolved organic macromolecules reduces the uptake of organic contaminants by the gills of rainbow trout (*Salmo gairdneri*). *Environmental Toxicology and Chemistry* 7:593-600.
5. Black, M.C. and J.F. McCarthy. 1990. Effects of sublethal exposure to chlorine on the uptake of polychlorinated biphenyl congeners by rainbow trout, *Salmo gairdneri* (Richardson). *Aquatic Toxicology* 17:275-290.
6. Black, M.C., D.S. Millsap, and J.F. McCarthy. 1991. Effects of acute temperature change on respiration and toxicant uptake by rainbow trout, *Salmo gairdneri*. *Physiological Zoology* 64:145-168.
7. Halbrook, R.S., J.M. Loar, S.M. Adams, M.C. Black, et al., 1992. Tennessee's East Fork Poplar Creek: A biological monitoring and abatement program. *Canadian Technical Report of Fisheries and Aquatic Sciences*: 187-189.
8. Ewing, M.S., M.C. Black, V. S. Blazer, and K. M. Kocan. 1994. Plasma chloride and gill epithelial response of channel catfish to infection with *Ichthyophthirius multifiliis*. *Journal of Aquatic Animal Health* 6:187-196.
9. Black, M.C., K. Björkroth, and A. Oikari. 1995. Probing the routes, rates, and mechanisms of xenobiotic elimination by rainbow trout (*Oncorhynchus mykiss*) with a physiological chamber.

Environmental Toxicology and Risk Assessment - Third Volume, ASTM STP 1218, pp. 351-364. Jane S. Hughes, Gregory R. Biddinger, and Eugene Mones, (Eds.), American Society for Testing and Materials, Philadelphia.

10. Martin, L.K., Jr. and M.C. Black. 1995. An aquatic cage design for evaluating exposure routes in *in-situ* xenobiotic studies. *Progressive Fish-Culturist* 57:323-325.
11. Martin, L.K., Jr. and M.C. Black. 1996. Biomarker assessment of the effects of petroleum contamination on channel catfish. *Ecotoxicology and Environmental Safety* 33:80-86.
12. Black, M.C., J.R. Ferrell, R.C. Horning, and L.K. Martin, Jr. 1996. DNA strand breakage in freshwater mussels (*Anodonta grandis*) exposed to lead in the laboratory and field. *Environmental Toxicology and Chemistry* 15:802-808.
13. Black, M.C., S.M. Westerfield, J.I. Belin, and K.B. Van Vreede. 1997. Biomarker assessment of environmental contamination: *In-situ* studies with freshwater mussels, pp. 193-196, K. J. Hatcher (ed.), *Proceedings of the Georgia Water Resources Conference*, Univ. of Georgia, Athens, GA
14. Westerfield, S.M. and M.C. Black. 1997. Comparison of constant voltage and field inversion gel electrophoresis methods for measuring DNA strand breakage in freshwater bivalves. *Toxicology Methods* 7:111-122.
15. Hitchcock, D.R., M.C. Black and P.L. Williams. 1997. Assessing toxicity trends in municipal and industrial wastewaters using the nematode *Caenorhabditis elegans*. *Archives of Environmental Contamination and Toxicology* 33:252-260.
16. Black, M.C. and J.I. Belin. 1998. Evaluating sublethal indicators of stress in Asiatic clams (*Corbicula fluminea*) caged in an urban stream, pp. 76-91 in: E.E. Little, A. J. Delonay, and B.M. Greenberg (eds.), *Environmental Toxicology and Risk Assessment: Seventh Volume, ASTM STP 1333*, American Society for Testing and Materials, West Conshohocken, PA
17. Martin, L.K., Jr. and M.C. Black. 1998. Biomarker assessment of the effects of strip-mine contamination on channel catfish. *Ecotoxicology and Environmental Safety* 41:307-320.
18. Conners, D.E., S.M. Westerfield, A. Feyko, M.C. Black, 1999. Lead accumulation in soft tissues and shells of Asiatic clams (*Corbicula fluminea*), pp.597-600, In: K. J. Hatcher (ed.), *Proceedings of the Georgia Water Resources Conference*, University of Georgia, Athens, GA.
19. Van Vreede, K.B., D.L. MacIntosh, M.C. Black. 1999. Estimation of time-to-gravid for freshwater mussels (*Utterbackia imbecilis*) in the laboratory: Effect of temperature conditioning. *Environmental Toxicology and Chemistry* 18:1469-1473.
20. Belin, J.I., T.A. McCaskey, and M.C. Black. 2000. Evaluating the efficiency of toxicity abatement in a constructed wetland with *Ceriodaphnia dubia*. *Journal of Toxicology and Environmental Health Part A*, 60:101-115.
21. Barfield, M.L., J.L. Farris, and M.C. Black. 2001. Biomarker and bioaccumulation responses of Asian clams exposed to aqueous cadmium. *Journal of Toxicology and Environmental Health Part A* 63:495-510.
22. Black, M.C. and P.L. Williams. 2001. Preliminary assessment of metal toxicity in the Middle Tisza River (Hungary) Flood Plain. *Journal of Soils and Sediments* 1: 203-206.
23. Fischer, J.G., H.P. Glauert, T. Yin, M.L. Sweeney-Reeves, N. Larmonier and M.C. Black. 2002. Moderate iron overload enhances lipid peroxidation in livers of rats, but does not affect NF-kappa N activation induced by the peroxisome proliferator, Wy-14,643. *Journal of Nutrition* 132: 2525-2531.
24. Konwick, B., Xia, K. and M. Black. 2003. Toxicity of biosolid elutriates from different wastewater treatment processes to *Ceriodaphnia dubia*, pp. 814-817. In K.J. Hatcher (ed), *Proceedings of the 2003 Georgia Water Resources Conference*, Univ. of Georgia, Athens, GA.
25. Augspurger, T., A.E. Keller, M.C. Black, W.G. Cope, and F.J. Dwyer. 2003. Water quality guidance for protection of freshwater mussels (Unionidae) from ammonia exposure. *Environmental Toxicology and Chemistry* 22:2569-2575.

26. Conners, D.E. and M.C. Black. 2004. Evaluation of lethality and genotoxicity in the freshwater mussel *Utterbackia imbecillis* (Bivalvia: Unionidae) exposed singly and in combination to chemicals used in lawn care. *Archives of Environmental Contamination and Toxicology* 46:362-371
27. Henry, T.B., J-W Kwon, K.L. Armbrust, and M.C. Black. 2004. Acute and chronic toxicity of five selective serotonin reuptake inhibitors in *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 23:2229-2233.
28. Konwick, B.J., A.T. Fisk, A.W. Garrison, J.K. Avants and M.C. Black. 2005. Acute enantioselective toxicity of fipronil and its desulfinyl photoproduct to *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 24:2350-2355.
29. Konwick, B.J., A.W. Garrison, M.C. Black, J.K. Avants, and A.T. Fisk. 2006. Bioaccumulation, biotransformation, and metabolite formation of fipronil and chiral legacy pesticides in rainbow trout. *Environmental Science and Technology* 40:2930-2936.

Books and Book Chapters

1. Henshel, D.S., M.C. Black and M.C. Harrass, 1999. *Environmental Toxicology and Risk Assessment: Eighth Volume, ASTM STP 1364*, American Society of Testing and Materials, W. Conshohocken, PA
2. Black, M.C. 2000. Chapter 30, Collection of Body Fluids, pp.513-527, In: G.K. Ostrander, ed., *Handbook of Experimental Animals: The Laboratory Fish*, Academic Press, London.
3. Black, M.C. 2000. Chapter 31, Routes of Administration for Chemical Agents, pp. 529-542, In: G.K. Ostrander, ed., *Handbook of Experimental Animals: The Laboratory Fish*, Academic Press, London.
4. Ankley, G.T., M.C.Black, J. Garric, T.H. Hutchinson and T. Iguchi. 2005. A framework for assessing the hazard of pharmaceutical materials to aquatic species, in R. Williams (ed), *Human Pharmaceuticals: Assessing the Impact on Aquatic Ecosystems*. SETAC Press, Pensacola, FL

Awards

- Spirit of Environmental Health Science Award, Association of Environmental Health Science Academic Programs (2005)
- Class 13, ESCOP/ACOP Leadership Development Program (2003-04)
- ASTM Award of Merit, American Society of Testing and Materials (2002)
- International Fellow, University of Georgia (1999-2000)
- Teaching Award of Merit, National Association of Colleges and Teachers of Agriculture and the College of Agricultural and Environmental Sciences, Univ. of Georgia (1999)

Membership and Service to Professional Societies

- SETAC-- Society of Environmental Toxicology and Chemistry (member since 1984)
- Board of Directors 2000-03
 - Co-Chair Educational Committee (2001-2004)
 - Editorial Board: *Environmental Toxicology and Chemistry* (1999-2002)