

Christopher S. Mazur, Research Biologist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: My current research focuses on the *in vitro* metabolism (ADME) of foreign chemicals using microsomal assays, hepatocyte cell cultures, transfected cell lines and vesicle assays to characterize transport and biotransformation processes.

Select Publications:

Mazur, C.S., Marchitti, S.A., Zastre, J. 2015. P-glycoprotein inhibition by the agricultural pesticide propiconazole and its hydroxylated metabolites: Implications for pesticide-drug interactions. *Toxicology Letters*, 232:37-45.

Mazur, C.S., Marchitti, S.A., Dimova, M., Kenneke, J.F., Lumen, A., Fisher, J. 2012. Human and rat ABC transporter efflux of Bisphenol A and Bisphenol A glucuronide: interspecies comparison and implications for pharmacokinetic assessment. *Toxicological Sciences*, 128:317-325

Mazur, C.S., Kenneke, J.F., Hess-Wilson, J.K., Lipscomb, J.C. 2010. Differences between human and rat intestinal and hepatic Bisphenol A glucuronidation and the influence of alamethicin on *in vitro* kinetic measurements. *Drug Metabolism and Disposition*, 38:2232-2238

Mazur, C.S., Kenneke, J.F., Goldsmith, M.R., Brown, C.C. 2009. Contrasting influence of NADPH and a NADPH-regenerating system on the metabolism of carbonyl-containing compounds in hepatic microsomes. *Drug Metabolism and Disposition*, 37:1801-1805.

Mazur, C.S., Kenneke, J.F. 2008. Cross-species comparison of conazole fungicide metabolites using rat and rainbow trout (*Onchorhynchus mykiss*) hepatic microsomes and purified CYP 3A4. *Environmental Science and Technology*, 42:947-954.

Mazur, C.S., J.F. Kenneke, C.T. Tebes-Stevens, M.S. Okino and J.C. Lipscomb. 2007. *In Vitro* Metabolism of the Fungicide and Environmental Contaminant trans-bromuconazole and Implications for Risk Assessment. *Journal of Toxicology and Environmental Health, Part A*. 70:1241-1250.

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Education:

- M.S. Zoology and Physiology/Water Resource Division, University of Wyoming, 1995
- B.A. Environmental Science/Biology, Mansfield University, 1993

Professional Experience:

- Research Biologist, USEPA, ORD, NERL-ERD, Athens, GA 1996–present