

PATRICK MCNAMARA, Ph.D.

Professor
Pharmaceutical Sciences

Research Interests

Dr. McNamara's primary interest is in pharmacokinetic and pharmacodynamic research with a particular emphasis on drug transport. His most recent work has focused on the mechanisms of drug transfer into milk; pharmacokinetic and pharmacodynamic consequences of drug exposure in the newborn; and the use of microdialysis to examine the interaction of drugs competing for the MDR transporter in the blood brain barrier. The research utilizes current technology including cell culture, whole animal and clinical studies, microdialysis, high performance liquid chromatography, computer model fitting and simulations.



Selected Research Publications/Presentations

McNamara PJ, Burgio D and Yoo SD. Pharmacokinetics of cimetidine during lactation: species difference in cimetidine transport into rat and rabbit milk. *J Pharmacol Exper Therap*, 261:918-923, 1992.

Oo CY, Burgio DE, Kuhn RC, Desai N and McNamara PJ. Pharmacokinetics of caffeine and its demethylated metabolites in lactation: predictions of milk to serum concentration ratios. *Pharm Res*, 12:313-316, 1995.

Small DS and McNamara PJ. Acitretin elimination in sprague-dawley rats pretreated with phenobarbital or naphthoflavone. *Drug Metab Dispos*, 23:463-472, 1995.

Oo CY, Kuhn RC, Desai N and McNamara PJ. Active transport of cimetidine into human milk. *Clin Pharmacol Therap*, 54:548-555, 1995.

Burgio D, Gosland MP and McNamara PJ. Modulation effects of cyclosporine on etoposide pharmacokinetics and CNS distribution in the rat utilizing Microdialysis. *Biochem Pharmacol*, 51:987-992, 1996.