

PETER CROOKS, MSc., Ph.D., C.Chem., FRSC, FRPharmS

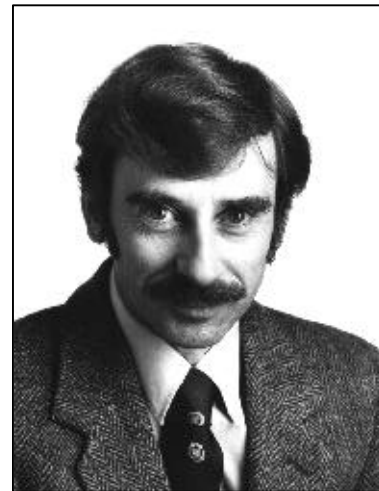
Professor
Pharmaceutical Sciences

Research Interests

Dr. Crooks is carrying out research in two major areas:

1. He has an active program in the development of new centrally active drugs, especially those of use in pain suppression and in the treatment of cognitive disorders such as Alzheimer's disease and Parkinson's Syndrome. He is also investigating the central pharmacology and biotransformation of nicotine, in order to elucidate the mechanism of its reported beneficial effects in the treatment of Alzheimer's disease.

2. A second area of interest is in the design, synthesis and evaluation of novel prodrugs and codrugs for ophthalmic delivery in the treatment of conditions such as corneal neovascularization, posterior capsular opacification, angiogenesis, and proliferative vitreoretinopathy.



Research Publications/Presentations

Gary D. Byrd, M.S. Uhrig, William S. Caldwell, J. Donald deBethizy, Peter A. Crooks, Alain Ravard, and Robert M. Riggs "Direct Determination of Cotinine-N-Glucuronide in Urine Using Thermospray Liquid Chromatography/Mass Spectrometry." *Biological Mass Spectrom.*, 1994, 23, 103-07.

William S. Caldwell, J. Donald deBethizy, Peter A. Crooks and Gary D. Byrd, "Modern Instrumental Methods for Studying Mechanisms of Toxicity." Invited chapter in: *Principles and Methods in Toxicology*, Third Edition, A. Wallace Hayes ed., Chapter 37, New York, Raven Press, pp. 1335-1390, 1994.

Alain Ravard and Peter A. Crooks, "Synthesis of [Methyl-d3]-Labeled Cis- and Trans-3'-Hydroxycotinine"., *J. Labelled Comp. Radiopharm.*, 1994, 34, 1001-1009.

Niranjan M. Deo and Peter A. Crooks, "Synthesis of 2-Cyanomethyl-1-methylpiperidine." *Synth. Commun.*, 1995, 25 (5), 691-701.

Linda P. Dwoskin, LiHong Teng, Susan T. Buxton, Alain Ravard, Nirajan Deo, YingShi Guo and Peter A. Crooks "Minor Alkaloids of Tobacco Release [3H]-Dopamine from Superfused Rat Striatal Slices"., *Eur. J. Pharmacol.*, 1995, 276, 195-199.