

BIOGRAPHICAL SKETCH

Mary A. Bittner

EDUCATION AND POSTDOCTORAL TRAINING

1968-1972	Viterbo College, La Crosse, WI B.S. in Chemistry and Biology, Summa cum laude
1972-1978	University of Michigan, Ann Arbor, MI Ph.D. in Pharmacology, mentor R.W. Ruddon
1984-1989	Department of Pharmacology, University of Michigan (laboratory of Dr. Ronald Holz)

ACADEMIC APPOINTMENTS

1989-1993	Research Investigator, Department of Pharmacology University of Michigan
1993-	Assistant Research Scientist, Department of Pharmacology University of Michigan

EMPLOYMENT

1972	Research Technician, Bureau of Sport Fisheries and Wildlife, La Crosse, WI (summer)
1972-1978	Predoctoral Fellow, The University of Michigan Department of Pharmacology, Ann Arbor, MI
1978-1982	Staff Scientist, The Proctor & Gamble Company, Miami Valley Laboratory, Cincinnati, OH

ACADEMIC AND PROFESSIONAL HONORS

1968	Wisconsin Honor Scholarship
1968-1972	Viterbo College Scholarship
1968-1972	National Honor Society Scholarship
1971	Argonne National Laboratory Student Trainee
1972	B.S. Summa Cum Laude, Viterbo College
1972-1976	NIH Traineeship, The University of Michigan
1985-1986	American Heart Association of Michigan Advanced Postdoctoral Fellowship

PUBLICATIONS

1. Kawatski, J.A. and Bittner, M.A. (1975) Uptake, elimination and biotransformation of the lampicide 3-trifluoromethyl-4-nitrophenol (TFM) by larvae of the aquatic midge *Chironomus tentans*. *Toxicology* 4, 183-194
2. Bittner, M.A. and Ruddon, R.W. (1976) Induction and decay of aryl hydrocarbon hydroxylase activity in mouse 3T3 cells. *Mol. Pharmacol.* 12, 966-976

3. Bittner, M.A. and LaHann, T.H. (1984) Biphasic time course of capsaicin-induced substance P depletion: Failure to correlate with thermal analgesia in the rat. *Brain Res.* **322**, 305-309
4. Bittner, M.A., Holz, R.W., and Neubig, R.R. (1986) Guanine nucleotide effects on catecholamine secretion from digitonin-permeabilized adrenal chromaffin cells. *J. Biol. Chem.* **261**, 10182-10188
5. Bittner, M.A. and Holz, R.W. (1988) Effects of tetanus toxin on catecholamine release from intact and digitonin-permeabilized chromaffin cells. *J. Neurochem.* **51**, 451-456
6. TerBush, D.R., Bittner, M.A., and Holz, R.W. (1988) Ca^{2+} influx causes rapid translocation of protein kinase C to membranes; studies of the effects of secretagogues in adrenal chromaffin cells. *J. Biol. Chem.* **263**, 18873-18879
7. Holz, R.W., Bittner, M.A., Peppers, S.C., Senter, R.A., and Eberhard, D.A. (1989) MgATP-independent and MgATP-dependent exocytosis: evidence that MgATP primes adrenal chromaffin cells to undergo exocytosis. *J. Biol. Chem.* **264**, 5412-5419
8. Bittner, M.A., DasGupta, B.R., and Holz, R.W. (1989) Isolated light chains of botulinum neurotoxins inhibit exocytosis: studies in digitonin-permeabilized chromaffin cells. *J. Biol. Chem.* **264**, 10354-10360
9. Bittner, M.A., Habig, W.H., and Holz, R.W. (1989) Isolated light chain of tetanus toxin inhibits exocytosis: studies in digitonin-permeabilized cells. *J. Neurochem.* **53**, 966-968
10. Bittner, M.A. and Holz, R.W. (1990) Phorbol esters enhance exocytosis from chromaffin cells by two mechanisms. *J. Neurochem.* **54**, 205-210
11. Holz, R.W., Senyshyn, J. and Bittner, M.A. (1991) Mechanisms involved in calcium-dependent exocytosis. *Ann. N.Y. Acad. Sci.* **635**, 382-392
12. Holz, R.W., Bittner, M.A. and Senter, R.A. (1991) Regulated exocytotic fusion I: chromaffin cells and PC12 cells. In "Reconstitution of Intracellular Transport" *Methods in Enzymology* **219**, 165-178
13. Bittner, M.A. and Holz, R.W. (1992) Kinetic Analysis of secretion from permeabilized adrenal chromaffin cells reveals distinct components. *J. Biol. Chem.* **267**, 16219-16225
14. Bittner, M.A. and Holz, R.W. (1992) A temperature-sensitive step in exocytosis. *J. Biol. Chem.* **267**, 16226-16229
15. Holz, R.W., and Bittner, M.A. (1993) The Role of Protein Kinase C in Exocytosis. In *Protein Kinase C* J.F. Kuo, ed., Oxford University Press. In press.
16. Bittner, M.A. and Holz, R.W. (1993) Protein kinase C and clostridial neurotoxins affect discrete and related steps in the secretory pathway. *Cell Mol. Neurobiol.* **13**, 649-664.
17. Bittner, M.A., Evenson, M.L. and DasGupta, B.R. (1994) Monoclonal antibodies to botulinum neurotoxin type A light chain crossreact with annexins. Submitted.