

BIOGRAPHICAL SKETCH

Give the following information for the key personnel and consultants listed on page 2. Begin with the Principal Investigator/Program Director. Photocopy this page for each person.

NAME	POSITION TITLE	BIRTHDATE (Mo., Day, Yr.)
Edward Hawrot	Professor of Medical Science	8/18/48
EDUCATION (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training)		
INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED
Univ. of Detroit, Detroit, Michigan	A.B. Honors	1970
Harvard University, School of Medicine		
Dept. of Biological Chemistry, Boston, MA	Ph.D.	1976
Harvard University, School of Medicine		
Dept. of Neurobiology, Boston, MA	Postdoctoral	
		Neurobiology

RESEARCH AND PROFESSIONAL EXPERIENCE: Conciding with present position, list, in chronological order, previous employment, experience and honors. Include present membership in local, Federal Government, public advisory committee. List, in chronological order, the titles and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. DO NOT EXCEED TWO PAGES.

- 1976 Helen Hay Whitney Fellow
- 1980-86 Assistant Professor, Dept. of Pharmacology, Yale University School of Medicine
- 1983 Pharmaceutical Manufacturer's Association Foundation Faculty Development Award
- 1984 Neurological Sciences Ad Hoc Review Group, NIH
- 1986-90 Associate Professor, Dept. of Pharmacology, Yale University School of Medicine
- 1986-91 American Heart Association Established Investigator Award
- 1989 Visiting Associate Professor, Dept. of Pharmaceutical Chemistry, UCSF
- 1990 Professor of Medical Science, Division of Biology and Medicine, Brown University
- 1990 Chairman, Section of Molecular and Biochemical Pharmacology, Brown University

Publications:

- Wilson, P.T., Lentz, T.L., and Hawrot, E. Determination of the Primary Amino Acid Sequence Specifying the α -Bungarotoxin Binding Site on the α -Subunit of the Acetylcholine from Torpedo californica. *Proc. Natl. Acad. Sci. USA* **82**: 8790-8794, 1985.
- Wilson, P.T., Lentz, T.L., and Hawrot, E. Mapping of α -Bungarotoxin Binding Site on Primary Sequence of the Acetylcholine Receptor. Second Colloquium in Biological Sciences, *Ann. N.Y. Acad. Sci.* **463**: 243-246, 1986.
- Chase, B., Holliday, J., Reese, J.H., Chun, L.L.Y., and Hawrot, E. Monoclonal Antibodies with Defined Specificities for Torpedo Nicotinic Acetylcholine Receptor Cross-React with Drosophila Neural Tissue. *Neuroscience* **21**: 959-976, 1987.
- Lentz, T.L., Hawrot, E., Donnelly-Roberts, D., and Wilson, P.T. Synthetic Peptides in the Study of the Interaction of Rabies Virus and the Acetylcholine Receptor. *Adv. Biochem. Psychopharmacol.* **44**: 57-71, 1988.
- Deutch, A.Y., Holliday, J., Roth, R.H., Chun, L.L.Y., and Hawrot, E. Immunohistochemical Localization of a Neuronal Nicotinic Acetylcholine Receptor in Mammalian Brain. *Proc. Natl. Acad. Sci. USA* **84**: 8697-8701, 1987.
- Lentz, T.L., Hawrot, E., and Wilson, P.T. Synthetic Peptides Corresponding to Sequences of Snake Venom Neurotoxins and Rabies Virus Glycoprotein Bind to the Nicotinic Acetylcholine Receptor. *Proteins* **31**: 298-307, 1987.
- Hawrot, E., Colson, K.L., Lentz, T.L., and Wilson, P.T. Synthetic Peptides in the Study of the Nicotinic Acetylcholine Receptor. In "Molecular Biology of Ion Channels" volume. Part of the series entitled "Current Topics in Membrane Transport: **33**: 165-195, 1988.
- Shi, Q.-L., Colson, K.L., Lentz, T.L., Armitage, I.M., and Hawrot, E. Solution Conformations of Synthetic Peptides Corresponding to the Ligand-Binding Site of the Nicotinic Acetylcholine Receptor (AChR) and the Mode of Peptide Binding to α -Bungarotoxin (BGTX) as Revealed by CD, Fluorescence, and NMR. *Biophys. J.* **53**: 94a, 1988.
- Shi, Q.-L., and Hawrot, E. Solution Conformation of Small Aromatic-Containing Peptides Related to the Ligand Binding Domain of the Nicotinic Acetylcholine Receptor. Annual AAAS Mtg., Seminar on the Protein Folding Problem, Abstract, Boston, 1988.