

JAMES K. COWARD – CURRICULUM VITAE
(Updated October 5, 2010)

NAME: James K. Coward

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EDUCATION:

1967-1969	Postdoctoral, Bioorganic Chemistry University of California, Santa Barbara Research Advisor: Professor T.C. Bruice
2/67	Ph.D., Medicinal Chemistry State University of New York at Buffalo Thesis Advisor: Professor B.R. Baker
6/64	M.A., Organic Chemistry Duke University, Durham, North Carolina Thesis Advisor: Professor P. Wilder, Jr.
6/60	A.B., Chemistry Middlebury College, Middlebury, Vermont

EMPLOYMENT:

1/08 – present	Professor Emeritus of Medicinal Chemistry and Professor Emeritus of Chemistry, University of Michigan.
9/98 – 8/04	Chair, Department of Medicinal Chemistry, The University of Michigan, Ann Arbor, Michigan
1/98 – 8/04	Director, Interdepartmental Program in Medicinal Chemistry, The University of Michigan, Ann Arbor, Michigan.
7/96 - 6/97	Visiting Professor, Department of Chemistry, Pennsylvania State University, University Park, Pennsylvania (Sabbatical leave).
7/95 – 7/05	Program Director, Michigan Chemistry-Biology Interface (CBI). Training Program.
1/87 – 12/07	Professor of Medicinal Chemistry and Professor of Chemistry, The University of Michigan, Ann Arbor, Michigan.
3/84 - 12/86	Professor of Biochemistry (Adjunct), The Albany Medical College, Albany, New York.
5/82 - 12/86	Professor of Chemistry, Rensselaer Polytechnic Institute, Troy, New York.

9/80 - 12/86	Chairman, School of Science Biochemistry Program, Rensselaer Polytechnic Institute, Troy, New York.
9/79 - 5/82	Associate Professor of Chemistry, Rensselaer Polytechnic Institute, Troy, New York.
7/77 - 6/78	Visiting Professor, Tumor Virus Laboratory, The Salk Institute, San Diego, California. (American Cancer Society Scholar in Cancer Research)
1/75 - 9/79	Associate Professor of Pharmacology, Yale University School of Medicine, New Haven, Connecticut.
2/69 - 1/75	Assistant Professor of Pharmacology, Yale University School of Medicine, New Haven, Connecticut.

PROFESSIONAL SOCIETIES:

American Chemical Society
 American Society of Biochemistry and Molecular Biology
 American Association for the Advancement of Science

HONORARY SOCIETIES:

Sigma Xi
 Phi Beta Kappa, Middlebury College (Alumnus Member)

HONORS:

1. National Institutes of Health Postdoctoral Fellow, 10/66-10/68
2. American Cancer Society Scholar in Cancer Research, 7/77-6/78
3. Fellow, American Association for the Advancement of Science, Chemistry Section, 2004.
4. Hall of Fame, Division of Medicinal Chemistry, American Chemical Society, 2007.
5. Phi Beta Kappa, Middlebury College, 2010

NATIONAL APPOINTMENTS:

1. Organizing Committee, Conference on Transmethylation, National Institutes of Health, 1978.
2. Member, Ad Hoc Medicinal Chemistry 'A' Study Section, 1979 (Forerunner of Bioorganic and National Products Study Section).
3. Member, Experimental Therapeutics Study Section, National Institutes of Health, 1979-1982.
4. Organizing Committee, Conference on Transmethylation, Lake of Ozarks, 1981.
5. Editorial Advisory Board, *Biochemical Pharmacology*, 1984-1996.
6. Organizing Committee, Conference on The Biochemistry of S-Adenosylmethionine, Bergen, Norway, July 1985.
7. Member, Special Review Committee, National Cancer Institute, 1985.
8. Member, Pharmacological Sciences Review Committee, National Institute of General Medical Sciences, 1987-1991.

9. Editorial Advisory Board, *Journal of Medicinal Chemistry*, 1988-1992.
10. Organizing Committee, International Symposium on Polyamines in Biochemical and Clinical Research, Sorrento, Italy, 1988.
11. American Chemical Society, Division of Medicinal Chemistry, Long Range Planning Committee, 1989–1991. Nominee for Chair-Elect, 1993.
12. American Chemical Society, Division of Biological Chemistry, Alternate Councilor, Member of Executive Committee, 1991–1993; Nominating Committee, 1998. Nominee for Chair-Elect, 2004.
13. Member, Chemistry and Related Sciences Special Emphasis Panel, National Institutes of Health, Division of Research Grants, 1995.
14. Member, Panel for Postdoctoral Fellowships in Chemistry Program, National Science Foundation, 1996.
15. Member, Editorial Board, *Annual Review of Pharmacology and Toxicology*, 1997–2002.

GRANT SUPPORT:

1. “A Mechanistic Study of Biological Transmethylation,” James K. Coward, Principal Investigator. USPHS/NIMH, MH-18038 (Yale University, Rensselaer Polytechnic Institute); USPHS/NIH, GM-30286 (Rensselaer Polytechnic Institute, University of Michigan). 3/1/70 – 3/31/89.
2. "Rational Drug Design Based on Chemical Mechanisms," James K. Coward, Principal Investigator. USPHS/NIH, CA-23209 (Yale University); CA-28097 (Rensselaer Polytechnic Institute, University of Michigan). 9/1/78 – 3/31/07.
3. “Michigan Chemistry-Biology Interface Training Program,” James K. Coward, Principal Investigator. USPHS/NIGMS, GM-08597 (University of Michigan). 7/1/96 – 6/30/05.
4. “Inhibitors of Polyamine Biosynthesis and/or Function,” Carl W. Porter, Principal Investigator, National Cancer Drug Discovery Grant. USPHS/NIH, CA-37606 (Roswell Park Cancer Institute/University of Michigan). 9/1/84 – 8/31/92.
5. “Trypanothione Biosynthesis and Polyamine Metabolism: New Targets for Chemotherapy of Tropical Diseases,” James K. Coward, Principal Investigator. World Health Organization, Special Program for Research and Training in Tropical Diseases (TDR), ID No. 930598 (University of Michigan). 10/1/94 – 9/30/97.
6. “Medicines for Malaria Venture (MMV) – Drug Discovery Interaction” James K. Coward, Principal Investigator. Parke-Davis Pharmaceutical Research Division, Warner-Lambert Co. Funds provided for Medicines for Malaria Venture (MMV) project. 12/15/00 – 12/15/01.

TEACHING EXPERIENCE:

1. General Pharmacology (Team taught), Text: Goodman & Gilman, "The Pharmacological Basis of Therapeutics", Yale University School of Medicine.
2. The Molecular Basis of Drug Action, No Text - course based on recent literature, Yale University.
3. Molecular Biochemistry and Mechanisms I and II, Text: Zubay, "Biochemistry", Rensselaer Polytechnic Institute.
4. Biological Catalysis, Text: Walsh, "Enzymatic Reaction Mechanisms", Rensselaer Polytechnic Institute.
5. Organic Chemistry Laboratory, Text: Landgrebe, "Theory and Practice in the Organic Laboratory", Rensselaer Polytechnic Institute.
6. Medicinal Chemistry 410, 412, Text: Foye, "Principles of Medicinal Chemistry," The University of Michigan.
7. Medicinal Chemistry 533, No Text - Lectures based on specialized texts and literature on enzyme kinetics, inhibitor design, and inhibitor evaluation. The University of Michigan.
8. Medicinal Chemistry 532, Text: Silverman, "The Organic Chemistry of Drug Design and Drug Action," The University of Michigan.
9. Chemistry 451, Text: Voet & Voet, "Biochemistry," The University of Michigan.