

# CURRICULUM VITAE

**Michael Mayersohn, Ph.D.**

## PERSONAL INFORMATION

Date of Birth: April 22, 1944  
Place of Birth: New York, New York  
Marital Status: Married (Sally), two children (Scott, Barbara)

Office: College of Pharmacy  
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## EDUCATION

| <u>College</u>  | <u>Date</u> | <u>Degree</u> | <u>Major</u>  |
|---|-------------|---------------|---------------|
| College of Pharmaceutical Sciences<br>Columbia University, New York   | 1961-1966   | B.S.          | Pharmacy      |
| College of Pharmaceutical Sciences<br>Columbia University, New York   | 1966-1967   | None          | Pharmaceutics |
| School of Pharmacy, State<br>University of New York at Buffalo<br>Dissertation Advisor: Milo Gibaldi, Ph.D. | 1967-1970   | Ph.D.         | Pharmaceutics |

## ACADEMIC AND PROFESSIONAL APPOINTMENTS

| <u>Date</u>  | <u>Appointment</u>  | <u>Place</u>  |
|--------------|---|---|
| 9/64 - 6/66  | Research Assistant  | Department of Pharmaceutics<br>College of Pharmaceutical Sciences<br>Columbia University, New York, NY.   |
| 9/66 - 6/67  | Harry Taub and Plaut<br>Fellow in Pharmacy                              | Department of Pharmaceutics, College<br>of Pharmaceutical Sciences, Columbia<br>University, New York, NY. |
| 6/67 - 9/67  | Research Trainee  | Pharmaceutical Research and Develop-<br>ment Division, CIBA Pharmaceutical<br>Co., Summit, New Jersey     |
| 9/67 - 10/70 | Fellow of the American<br>Foundation for Pharma-<br>ceutical Education. | Department of Pharmaceutics, School<br>of Pharmacy, State University of<br>New York at Buffalo, NY.       |
| 10/70 - 6/75 | Assistant Professor   | Faculty of Pharmacy, University of<br>Toronto, Toronto, Ontario, Canada.                                  |
| 6/75 - 6/76  | Associate Professor   | Faculty of Pharmacy, University of<br>Toronto, Toronto, Ontario, Canada.                                  |

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|----------------|---------------------|--|
| 6/76 - 6/83    | Associate Professor | College of Pharmacy, The University of Arizona, Tucson, Arizona.                             |
| 6/83 - Present | Professor           | College of Pharmacy, The University of Arizona, Tucson Arizona.                              |
| 7/1 - 12/30/86 | Visiting Professor  | Department of Pharmaceutical Research, F. Hoffmann-La Roche and Co., Basel, Switzerland.     |
| 8/93 - Present | Member              | Interdisciplinary Graduate Program in Pharmacology and Toxicology, The University of Arizona |
| 8/93- Present  | Member              | Center for Toxicology, The University of Arizona   |
| 8/93 - Present | Member              | Southwest Environmental Health Sciences Center, The University of Arizona                    |
| 7/8 - 7/19/96  | Visiting Professor  | Sandoz Pharmaceutical Corporation, East Hanover, New Jersey                                  |
| 9/2000-2003    | Member              | Arizona Center for Phytomedicine Research  |

### **MAJOR RESEARCH FIELD**

Research training and experience have been in the general area of pharmaceutical sciences with a specialty in pharmaceuticals, biopharmaceuticals and pharmacokinetics. These specialty areas involve: an examination of the relationship between the physical chemical characteristics of a drug and its dosage form and the fate and performance of that drug in the body; the use and development of analytical procedures to quantitate drugs and metabolites in biological fluids and from these data the development of rigorous mathematical models to quantitate the kinetic processes of drug absorption distribution, elimination and response; the design of rational drug dosing regimens based upon analytical, mathematical and clinical data. Research projects have involved investigations in each of these areas.

### **ACADEMIC AWARDS AND HONORS**

| <u>Award</u>   | <u>Date</u> | <u>Place</u>  |
|--|-------------|---|
| Rho Chi Award  | 1962        | College of Pharmaceutical Sciences<br>Columbia University |
| Henry Pfeiffer Scholarship                                   | 1962        | College of Pharmaceutical Sciences<br>Columbia University |
| Block Memorial Scholarship                                   | 1963        | College of Pharmaceutical Sciences<br>Columbia University |
| American Foundation for Pharmaceutical Education Scholarship | 1964        | College of Pharmaceutical Sciences<br>Columbia University |
| Harry Taub Fellowship  | 1966        | College of Pharmaceutical Sciences<br>Columbia University |
| Plaut Memorial Fellowship                                    | 1966        | College of Pharmaceutical Sciences<br>Columbia University |
| Rho Chi Pharmaceutical Honor Society                         | 1966        | College of Pharmaceutical Sciences<br>Columbia University |

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|--|-----------|--|
| Fellow of the American Foundation for Pharmaceutical Education | 1968-1970 | School of Pharmacy, State University of New York at Buffalo.   |
| Medical Research Council of Canada, Visiting Professor         | 1971-1975 | Faculty of Pharmacy, University of Alberta<br>Faculty of Pharmacy, University of British Columbia<br>College of Pharmacy, Dalhousie University |
| Basic Science Educator of the Year                             | 1984      | College of Pharmacy, University of Arizona   |
| Fellow, Academy of Pharmaceutical Sciences                     | 1985      | American Pharmaceutical Association  |
| Fellow, American Association of Pharmaceutical Scientists      | 1986      | American Association of Pharmaceutical Scientists  |
| Basic Science Educator of the Year                             | 1989      | College of Pharmacy, University of Arizona   |
| Basic Science Educator of the Year                             | 1996      | College of Pharmacy, University of Arizona   |
| Dean's Teaching Scholar  | 1997-1998 | University of Arizona  |
| Basic Science Educator of the Year                             | 1998      | College of Pharmacy, University of Arizona   |
| Graduate Advisor of the Year                                   | 2000      | Graduate and Professional Student Council, University  |
| Basic Science Educator of the Year                             | 2002      | College of Pharmacy, University of Arizona of Arizona  |
| Graduate Advisor of the Year                                   | 2002      | Graduate and Professional Student Council, University of Arizona   |
| Mortar Board Citation Award                                    | 2002      | Mortar Board National Senior Honor Society, University of Arizona  |
| Basic Science Educator of the Year                             | 2005      | College of Pharmacy, University of Arizona   |
| Fellow, American College of Clinical Pharmacology              | 2005      | American College of Clinical Pharmacology  |
| Extraordinary Faculty Award                                    | 2008      | The University of Arizona Alumni Association   |
| Basic Science Educator of the Year                             | 2009      | College of Pharmacy, University of Arizona   |
| Honorary Alumnus Award   | 2011      | The University of Arizona, Alumni Association  |

## **PUBLICATIONS**

### **Book Chapters**

1. M. Mayersohn, "Physiological Factors that Modify Systemic Drug Availability and Pharmacologic Response in Clinical Practice," chapter 8 (pp. 211-273) in Principles and Perspectives in Drug Bioavailability, J. Blanchard, R. Sawchuk, and B.B. Brodie, eds., S. Karger, New York, 1979.
2. M. Mayersohn, "Principles of Drug Absorption," chapter 2 (pp. 23-85) in Modern Pharmaceutics, G.S. Banker and C.T. Rhodes, eds., Marcel Dekker, New York, 1979.
3. M. Mayersohn, "Basic Concepts in Drug Disposition: Fundamental Principles of Pharmacokinetics," chapter 1 (pp. 3-28) in Drug Therapy for the Elderly, K.A. Conrad and R. Bressler, eds., C.V. Mosby, St. Louis, 1982.
4. M. Mayersohn, "Effects of Aging on Pharmacotherapeutics: Drug Disposition," chapter 2 (pp. 31-63) in Drug Therapy for the Elderly, K.A. Conrad and R. Bressler, eds., C.V. Mosby, St. Louis, 1982.
5. M. Mayersohn, "Special Pharmacokinetic Considerations in Elderly," Chapter 9 (pp. 229-293), in Applied Pharmacokinetics: Principles of Therapeutic Drug Monitoring, 2nd ed., W.E. Evans, J.J. Schentag, and W.J. Jusko (eds.), Applied Therapeutics, San Francisco, 1986.
6. M. Mayersohn, "Principles of Drug Absorption," Chapter 2 (pp. 23-89), in Modern Pharmaceutics, 2nd ed., G.S. Banker and C.T. Rhodes (eds.), Marcel Dekker, New York, 1989.
7. M. Mayersohn, "Special Pharmacokinetic Considerations in Elderly," Chapter 9 (pp. 9-1-9-43) in Applied Pharmacokinetics: Principles of Therapeutic Drug Monitoring, 3rd ed., W.E. Evans, J.J. Schentag, and W.J. Jusko (eds.), Applied Therapeutics, Vancouver, Washington, 1992.
8. M. Mayersohn, "Principles of Drug Absorption," Chapter 2 (pp. 21-73), in Modern Pharmaceutics, 3rd ed., G.S. Banker and C.T. Rhodes (eds.), Marcel Dekker, New York, 1995.
9. M. Mayersohn, "Toxicokinetics: Measurement of Disposition Half-Life, Clearance and Residence Times", Chapter 5-3 in Current Protocols in Toxicology, M. Maines, editor-in-chief, John Wiley and Sons, New York, 2000, pp. 5-3.1 – 5-3.29
10. M. Mayersohn, "Principles of Drug Absorption," Chapter 2, in Modern Pharmaceutics, 4<sup>th</sup>ed., G.S. Banker and C.T. Rhodes (eds.), Marcel Dekker, New York, 2002.
11. M. Mayersohn, "Principles and Applications of Pharmacokinetics", Chapter 79 in: Medical Toxicology, 3<sup>rd</sup> ed., RC Dart (ed.), Lippincott, Williams and Wilkins, New York, 2004, pp. 282-337.
12. M. Mayersohn, "Principles of Drug Absorption", Chapter 2, in Modern Pharmaceutics, Volume 1: Basic Principles and Systems, 5<sup>th</sup> ed., A.T. Florence and J. Siepmann (eds.), Informa Healthcare USA, Inc., New York, 2009, pp. 23-80.

### **Book Chapters: Symposia**

1. D. Alberts, H.S. Chen, R. Liu, M. Mayersohn, D. Perrier, T. Moon, J. Gross, A. Broughton and S.E. Salmon, "Disposition Kinetics of Intracavitary Bleomycin in Man," Chapter 11 in "Bleomycin: Current Status and New Developments" (pp. 131-142), S.K. Carter, S.T. Crooke, and H. Umezawa, eds., Academic Press, New York, 1978.
2. F.I. Marcus, D. Perrier and M. Mayersohn, "Effect of Jejunoileal Bypass on the Bioavailability of Digoxin in Man," chapter 14 in "Cardiac Glycosides" (pp. 167-180), G. Bodem, and H. J. Dengler, eds., Springer-Verlag, New York, 1978.
3. J.R. Woodworth, S.M. Owens and M. Mayersohn, "Phencyclidine Disposition Kinetics In Dogs: Preliminary Findings," in "Phencyclidine and Related Arylcyclohexylamines - Present and Future

- Applications," J.M. Kamenka, E.F. Domino, and P. Geneste, Eds., NPP Books, Ann Arbor, Michigan, 1983.
4. M. Mayersohn, J.R. Woodworth and S.M. Owens, "Phencyclidine Disposition in Animals," in "Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs," G. Barnett and N. Chiang, eds., Biomedical Publications, Foster City, CA, 1985, pp. 28-47.
  5. M. Mayersohn, "Rational Approaches to the Treatment of Drug Toxicity: Some Recent Considerations and the Application of Pharmacokinetic Principles," in "Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs," G. Barnett and N. Chiang, eds., Biomedical Publications, Foster City, CA, 1985, pp. 120-142.
  6. S.M. Owens and M. Mayersohn, "Modulation of Phencyclidine (PCP) Pharmacokinetics with PCP-Specific Fab Fragments," In Phencyclidine-An Update," D.H. Clouet, ed., National Institute on Drug Abuse Research Monograph Series, volume 64, U.S. Government Printing Office, Washington, D.C., 1986, pp. 163-173.
  7. M. Mayersohn, "Vitamin C Bioavailability," in "Proceedings of the First International Congress on Vitamins and Biofactors in Life Science," T. Kobayashi, ed., Center for Academic Publications, Tokyo, Japan, 1992, pp. 446-449.

### Research Publications

1. A.H. Goldberg, M. Gibaldi, J.L. Kanig and M. Mayersohn, "Increasing Dissolution Rates and Gastrointestinal Absorption of drugs *via* Solid Solutions and Eutectic Mixtures-IV," J. Pharm. Sci., 55, 581-583 (1966).
2. M. Mayersohn and M. Gibaldi, "New Method of Solid State Dispersion for Increasing Dissolution Rates," J. Pharm. Sci., 55, 1323-1324 (1966).
3. M. Mayersohn, S. Feldman and M. Gibaldi, "Bile Salt Enhancement of Riboflavin and Flavin Mononucleotide Absorption in Man," J. Nutr., 98, 288-296 (1969).
4. M. Mayersohn and M. Gibaldi, "Drug Transport-I. Effect of Potassium ion on the *In Vitro* Transfer of Several Drugs Across the Rat Intestine: Preliminary Observations," J. Pharm. Sci., 58, 1429-1430 (1969).
5. M. Mayersohn and M. Gibaldi, "Drug Transport-II. The Effect of Various Cations on the Passive Transfer of Drugs Across the Everted Rat Intestine," Biochimica Biophysica Acta, 196, 296-304 (1970).
6. M. Mayersohn and M. Gibaldi, "Drug Transport-III. Influence of Various Sugars on Passive Transfer of Several Drugs Across the Everted Rat Intestine," J. Pharm. Sci., 60, 225-230 (1971).
7. M. Mayersohn and M. Gibaldi, "Drug Transport-IV. Influence of Hypotonic and Hypertonic Solutions on Passive Drug Transfer Across the Everted Rat Intestine," J. Pharm. Sci., 60, 326-327 (1971).
8. M. Mayersohn, M. Gibaldi and B. Grundhofer, "Drug Transport-V. Mechanism of Potassium-Ion Inhibition of Passive Transfer of Solutes Across Everted Rat Intestine," J. Pharm. Sci., 60, 1813-1817 (1971).
9. M. Mayersohn, "Ascorbic Acid Absorption in Man - Pharmacokinetic Implications," Eur. J. Pharmacol. 19, 140-142 (1972).
10. M. Mayersohn and K. Suryasaputra, "Transport Cell for Examining Solute Transfer Across Biologic Membranes," J. Pharm. Sci., 62, 681-683 (1973).
11. C. B. Tuttle, M. Mayersohn and G. C. Walker, "Biological Availability and Urinary Excretion Kinetics of Oral Tolbutamide Formulations in Man," Canad. J. Pharm. Sci., 8, 31-36 (1973).
12. M. Mayersohn and L. Endrenyi, "Relative Bioavailability of Ampicillin Formulations in Man," Canad. Med. Assn. J., 109, 989-993 (1973).

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