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PERSONAL DATA

Date and Place of Birth: December 2, 1948; Fairbanks, Alaska USA
Citizenship: USA (native)

EDUCATION

August, 1974 **Imperial College**, London, England
Diploma of Imperial College (DIC), Organic Chemistry
Thesis: "*Synthesis of Some Benzylisoquinoline Alkaloids*"
Advisor: Sir Derek H. R. Barton

August, 1973 **Colorado State University**, Fort Collins, Colorado
Ph.D., Organic Chemistry
Thesis: "*Electrooxidative Non-Phenolic Coupling*"
Advisors: Frank Stermitz/Larry Miller

June, 1970 **Colorado State University**, Fort Collins, Colorado
B.Sc., Chemistry

ACADEMIC APPOINTMENTS

6/12 – Present Adjunct Professor, Department of Pharmacology and Toxicology
Medical College of Wisconsin, Milwaukee, Wisconsin

6/97 - Present Robert A. Welch Distinguished Chair in Chemistry

9/96 - Present Professor, Department of Biochemistry
University of Texas Southwestern Medical Center
Dallas, Texas

9/92 - Present Professor, Department of Pharmacology
University of Texas Southwestern Medical Center
Dallas, Texas

8/89 - Present Adjunct Professor, Department of Chemistry
Southern Methodist University
Dallas, Texas

9/92 - 8/96 Professor, Department of Molecular Genetics
University of Texas Southwestern Medical Center
Dallas, Texas

9/87 - 8/92 Associate Professor, Department of Pharmacology
University of Texas Southwestern Medical Center
Dallas, Texas

9/85 - 8/92 Associate Professor, Department of Molecular
Genetics and Biophysics
University of Texas Southwestern Medical Center
Dallas, Texas

7/79 - 8/85 Assistant Professor, Department of Molecular
Genetics and Biophysics
University of Texas Southwestern Medical Center
Dallas, Texas

7/75 - 6/79 Postdoctoral Research Fellow
Prof. E. J. Corey, Harvard University
Cambridge, MA

9/74 - 6/75 Postdoctoral Research Associate
Prof. Theodore Cohen, University of Pittsburgh
Pittsburgh, PA

9/73 - 9/74 Postdoctoral Research Fellow
Prof. Sir Derek H. R. Barton, Imperial College
London, England

ACADEMIC HONORS and AWARDS

1970 Phi Kappa Phi Honorary Society

1970-73 National Science Foundation Trainee

1970 B. Sc. with High Distinction

1973-74 Science Research Council Fellowship (U.K.)

1996 Wilfred T. Doherty Award (Am. Chem. Soc.-DFW Section)

2002 Winter Eicosanoid Conference-Special Recognition Award

PROFESSIONAL AFFILIATIONS

American Chemical Society
Royal Society of Chemistry (U.K.)
International Society of Heterocyclic Chemistry

PROFESSIONAL ACTIVITIES

1988-2000 Member, NIH Special Emphasis Review Committee

1998-2000 Member, ACS Medicinal Chemistry Division, Long Range Planning Committee

2015-present External Advisor, Drug Discovery Center, Medical College of Wisconsin

LECTURESHIPS

1988 Contingent National Des Professeurs Associes (Strasbourg, France)

COMMERCIAL VENTURES

3/04 - 7/11 *OMM Scientific, Inc.* (Dallas, Tx)
Co-Founder/Board of Directors/Chair, Scientific Advisory Board

11/04 - 6/09 *ProTech Laboratories, Inc.* (Houston, TX)
Co-Founder/Board of Directors

6/05 - present *Cytometix, Inc.* (Milwaukee, WI)
Director of Chemistry/Board of Directors

1/11 - present *CRO Laboratories, Inc.* (Dallas, TX)
Scientific Advisory Board

08/12 - 03/16 *Corvinus Chemicals LLC* (Dallas, TX)
Co-Founder/Science Advisor

10/13 - present *OMEICOS GmbH* (Berlin, Germany)
Founding Scientist/Science Advisor

BIBIOGRAPHY - ARTICLES

1. Miller, L.L.; Stermitz, F.R.; Falck, J.R., "Electrooxidative Cyclization of Laudanosine. A Novel Nonphenolic Coupling Reaction". *J. Am. Chem. Soc.* **93**: 5941-5942, 1971.
2. Miller, L.L.; Stermitz, F.R.; Falck, J.R., "Electrooxidative Cyclization of 1-Benzyltetrahydroisoquinolines. A novel Nonphenolic Coupling Reaction". *J. Am. Chem. Soc.* **95**: 2651-2656, 1973.
3. Coomes, R.M.; Falck, J.R.; Williams, D.K.; Stermitz, F.R., "Alkaloids of the Papaveraceae. XX. 2,9-Dimethoxy-3-hydroxypavine, a New Alkaloid from *Argemone munita* subsp. *rotundata*". *J. Org. Chem.* **38**: 3701-3704, 1973.
4. Falck, J.R.; Miller, L.L.; Stermitz, F.R., "Electrooxidative Synthesis of Morphinandienones from 1-Benzyltetrahydroisoquinolines". *Tetrahedron* **30**: 931-934, 1974.
5. Falck, J.R.; Miller, L.L.; Stermitz, F.R., "Anodic Cyclization-Rearrangement of Methoxybibenzyls to Dihydrophenanthrones". *J. Am. Chem. Soc.* **96**: 2981-2986, 1974.
6. Cohen, T.; Herman, G.; Falck, J.R.; Mura, Jr., A.J., "Copper(I) Promoted Thiophenoxide Ionization in Solution. A Simple Synthesis of Vinyl Phenyl Sulphides". *J. Org. Chem.* **40**: 812-813, 1975.
7. Cohen, T.; Kuhn, D.; Falck, J. R., "Application of Copper(I)-Induced Thiophenoxide Removal to Ring Expansions or Chain Extensions of Ketones and Aldehydes. Detection, Isolation, and Independent Preparation of the α -Epoxy Thioether Intermediate." *J. Am. Chem. Soc.* **97**: 4749-4751, 1975.
8. Cohen, T.; Mura, A.J.; Shull, D.W.; Fogel, E.R.; Ruffner, R.J.; Falck, J.R., "Removal of Sulfur Groups from Molecules by Copper(I). Preparation of Sulfur-Substituted 1,3-Dienes for Diels-Alder Reactions". *J. Org. Chem.* **41**: 3218-3219, 1976.
9. Corey, E.J.; Trybulski, E.J.; Melvin, L.S.; Nicolaou, K.C.; Secrist, J.; Lett, R.; Sheldrake, P.; Falck, J.R.; Brunelle, D.J.; Haslanger, M.F.; Kim, S.; Yoo, S.-E., "Total Synthesis of Erythromycins (Part III). Stereoselective Routes to Intermediates Corresponding to C(1) to C(9) and C(10) to C(13) Fragments of Erythronolide B." *J. Am. Chem. Soc.* **100**: 4618-4620, 1978.
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11. Corey, E.J.; Niwa, H.; Falck, J. R., "Selective Epoxidation of Eicosa-*cis*-5,8,11,14-tetraenoic (Arachidonic) Acid and Eicosa-*cis*-8,11,14-trienoic Acid". *J. Am. Chem. Soc.* **101**: 1586-1587, 1979.
12. Barrett, A.G.M.; Barton, D.H.R.; Falck, J.R.; Papaioannou, D.; Widdowson, D., "Phenol Oxidation and Biosynthesis. Part 26. Isonitriles in the Synthesis of Benzyloisoquinoline Derivatives". *J.C.S. Perkin I*: 652-661, 1979.
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14. Corey, E.J.; Marfat, A.; Falck, J.R.; Albright, J.O., "Controlled Chemical Synthesis of the Enzymatically Produced Eicosanoids 12-, 15-, and 15-HETE from Arachidonic Acid and Conversion into the Corresponding Hydroperoxides (HPETE)". *J. Am. Chem. Soc.* **102**: 1433-1435, 1980.
15. Brown, M.S.; Basu, S.K.; Falck, J.R.; Ho, Y.K.; Goldstein, J.L., "The Scavenger Cell Pathway for Lipoprotein Degradation: Specificity of the Binding Site that Mediates the Uptake of Negatively-charged LDL by Macrophages". *J. Supra. Struct.* **13**: 67-81, 1980.
16. Falck, J.R.; Manna, S., "An Intramolecular Passerini Reaction: Synthesis of Hydrastine". *Tetrahedron Lett.* **22**: 619-620, 1981.
17. Falck, J.R.; Manna, S.; Mioskowski, C., "Oxazoline Chemistry. Preparation of Isoquinolines and 2,2'-Bisoxazolines". *J. Org. Chem.* **46**: 3742-3745, 1981.
18. Mosley, S.T.; Goldstein, J.L.; Brown, M.S.; Falck, J.R.; Anderson, R.G.W., "Targeted Killing of Cultured Cells by Receptor-Dependent Photosensitization". *Proc. Natl. Acad. Sci. USA* **78**: 5717-5721, 1981.
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- Synthesis of Both Enantiomers of 8,9- and 11,12-Epoxyeicosatrienoic Acid". *Tetrahedron Lett.* **27**: 6035-6038, 1986.
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