

CURRICULUM VITAE

HAROLD KOHN

Kenan Professor
Division of Medicinal Chemistry and Natural Products
School of Pharmacy
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7360
(919) 966-2680

Home Address: 705 Wellington Drive, Chapel Hill, NC 27514
(919) 960-5812

Birth: April 1, 1945, New York, NY

Marital Status: Married, two children

Education

Columbia University, New York, NY, postdoctoral research associate, 1971-1973.

Pennsylvania State University, University Park, 1966-1971, Major: Organic Chemistry; Degree granted: Ph.D.

University of Michigan, Ann Arbor, MI, 1962-1966, Major: Chemistry; Degree granted: B.S. in Chemistry.

Professional Experience

Kenan Professor of Medicinal Chemistry, Division of Medicinal Chemistry and Natural Products, University of North Carolina, Chapel Hill, North Carolina, 1999-present.

M.D. Anderson Professor of Chemistry, Department of Chemistry, University of Houston, Houston, Texas, 1995-1999.

Professor of Biochemical and Biophysical Sciences, Department of Biochemical and Biophysical Sciences, University of Houston, Houston, Texas, 1993-1999.

Professor of Chemistry, Department of Chemistry, University of Houston, Houston, Texas, 1983-1995.

Associate Professor of Chemistry, Department of Chemistry, University of Houston, Houston, Texas, 1978-1983.

Visiting Research Scientist with Dr. S. J. Benkovic, Eberley and Pugh Professor of Chemistry, Pennsylvania State University, University Park, Pennsylvania (phone: (814) 865-2882), 1981.

Assistant Professor of Chemistry, Department of Chemistry, University of Houston, Houston, Texas, 1973-1978.

Research Associate with Dr. R. C. D. Breslow, Mitchill Professor of Chemistry, Columbia University, New York, New York (phone: (212) 280-2170), 1971-1973.

Research Fellow with Dr. R. A. Olofson, Professor of Chemistry, Pennsylvania State University, University Park, Pennsylvania (phone: (814) 865-7761), 1967-1971.

Research Assistant with Dr. R. E. Counsell, Professor of Pharmacy and Internal Medicine, University of Michigan, Ann Arbor, Michigan, 1966.

Research Experience

University of North Carolina: The examination of the biological mechanisms of mitomycin C, bicyclomycin, and (*R*)-*N*-benzyl-2-acetamido-3-methoxypropionamide at the molecular level; synthesis of peptidomimetics; development and evaluation of new chemotherapeutic agents for the treatment of epilepsy, neuropathic pain, cancer, and bacterial infections.

University of Houston: The examination of the biological mechanisms of mitomycin C, bicyclomycin and biotin at the molecular level; synthetic and mechanistic studies in organic heterocyclic chemistry; development of new chemotherapeutic agents for the treatment of epilepsy, cancer, and bacterial infections.

Developmental Leave Studies (1981): Mechanistic studies on the phenylalanine hydroxylase system from rat liver.

Postdoctoral Studies: The synthesis and investigation of functionalized cyclodextrins as model enzyme systems.

Graduate Studies: 1) Studies of the effect of transition metal cations on the ease of C-H deprotonation in heterocyclic systems; 2) Determination of the importance of electron pair repulsion effects on heteroaromatic C-H acidities; 3) The synthesis and chemistry of 1,4-dihydro-1,2,4,5-tetrazine; 4) Synthesis and stabilities of fused ring azathiabenzene derivatives including charged derivatives; and 5) Substitution mechanisms of pharmaceutically interesting mesoionic compounds.

Undergraduate Studies: Synthesis of new azaindoles for their pharmaceutical testing on smooth muscles and the central nervous system; preparation of radioiodinated analogs of 1,1-dichloro-2,2-bis(chlorophenyl)ethane as diagnostic tools for the adrenal glands.

Research Interests

1. Mitomycin C is a clinically significant antineoplastic agent. It is the prototype of an important class of anticancer compounds termed: bioreductive alkylation agents. Programs have been instituted to determine the molecular events leading to the activation and subsequent reaction of mitomycin C and mitomycin analogues; to elucidate the mode of action of the mitomycins in the presence of DNA; and to develop and evaluate a select series of biomechanistic analogues of mitomycin C.

2. Bicyclomycin is a structurally unique antibiotic which displays broad activity against a variety of Gram-negative bacteria. The mode of action of this clinical agent is poorly understood. We discovered that the site of bicyclomycin function is the essential enzyme, the rho transcription termination factor. Studies are underway which focus on determining the mechanism of the bicyclomycin, rho, and the bicyclomycin-rho interaction, as well as determining the role of rho in *Escherichia coli* cell biology. Knowledge of this nature is expected to provide the molecular basis for subsequent research in this area and allow future general drug design to proceed on a less empirical basis.
3. Epilepsy refers to the many types of recurrent seizures produced by paroxysmal excessive neuronal discharges in the brain. The mainstay of treatment has been the long-term and consistent administration of anticonvulsant drugs. Unfortunately, despite the many available chemotherapeutic agents, none are capable of achieving total seizure control and most have disturbing side-effects. Recent pharmacological studies in our laboratory have led to the discovery of a new series of highly stereoselective anticonvulsant agents. The lead compound, (*R*)-*N*-benzyl-2-acetamido-3-methoxypropionamide, has entered into phase III clinical trials for the treatment of epilepsy and neuropathic pain. Programs are currently in progress aimed at elucidating the key functional groups needed for biological activity, and determining the mode of action of these medicinal agents.
4. Bacterial and mycobacterial infections remain an unmet health challenge. Resistance to conventional antibiotics constitutes a major health crisis. Tuberculosis alone accounts for 3.1 million deaths annually and an estimated one-third of the world's population is infected. Recently, we have shown that metal chelates are potent antibiotics and discovered that select hydroxamic acids are pathogen-specific inhibitors of *Mycobacterium tuberculosis*. We have information on the target site for each class of compounds. Studies are underway to learn their mechanisms of inhibition and to realize their therapeutic potential.

Honors and Memberships

William H. and Karen Campbell Professorship (2006-present)
Kenan Chair in Medicinal Chemistry (1999-present)
M.D. Anderson Professor of Chemistry (1995-1999)
University of Houston Research Excellence Award (1993)
American Cancer Society Study Section (*ad hoc*, 1992)
National Institutes of Health BNP Study Section (*ad hoc*, 1992, 2003)
Dreyfus Teacher-Scholar Award (1977-1982)
Alfred P. Sloan Research Fellowship (1977-1981)
NIH Postdoctoral Fellowship (1971-1973)
NIH Predoctoral Fellowship (1969-1970)
NSF Traineeship (1966-1969)
American Chemical Society
The Royal Society of Chemistry (London) - Member
Sigma Xi (1973)

Publications (*, corresponding author)

1. Harold Kohn, Stephen J. Benkovic,* and R.A. Olofson,* Dependence of Mechanism on pH for Deuterium-Hydrogen Exchange in 1-Methyltetrazole-5-d. Transition Metal Ion Catalysis of a Deprotonation Process, *J. Am. Chem. Soc.*, 94, 5759-5765 (1972).

2. Harold Kohn and R.A. Olofson,* 1, 4-Dimethyl-1, 4-dihydro-1, 2, 4, 5-tetrazine and Its N-Alkyl Salt. Synthesis, Structure and Chemistry. *J. Org. Chem.*, 37, 3504-3509 (1972).
3. Ronald Breslow,* Harold Kohn, and Brock Siegel, Methylated Cyclodextrin and a Cyclodextrin Polymer as Catalysts in Selective Anisole Chlorination, *Tetrahedron Lett.*, 17, 1645-1646 (1976).
4. Harold Kohn,* Model Studies on the Mechanism of Biotin Dependent Carboxylations, *J. Am. Chem. Soc.*, 98, 3690-3694 (1976).
5. Harold Kohn* and Y. Gopichand, An Isosteric Substitution Reaction of Substituted Imidazolidinethiones, *Tetrahedron Lett.*, 17, 3093-3096 (1976).
6. Harold Kohn* and Raymond E. Davis, Syntheses and Chemistry of N-Acyl Substituted Dihydroimidazo[2, 1-b]thiazolium Salts, *J. Org. Chem.*, 42, 72-77 (1977).
7. Harold Kohn,* Melanie J. Cravey, Janice H. Arceneaux, Rodney L. Cravey, and M. R. Willcott, III, Syntheses and Spectral Properties of Substituted Imidazolidones and Imidazolines, *J. Org. Chem.*, 42, 941-948 (1977).
8. Harold Kohn* and Janice H. Arceneaux, Thermolysis of N-Acyl Substituted 2-Allylthioimidazolines. Evidence for a [3,3] Sigmatropic Rearrangement, *J. Org. Chem.*, 42, 2339-2341 (1977).
9. Harold Kohn,* Barbara A. Kohn, Marie Louise Steenberg, and Joseph P. Buckley, Syntheses and Pharmacological Activity of Substituted Imidazolidinethiones and Thioimidazolines, *J. Med. Chem.*, 20, 158-160 (1977).
10. Steven F. Watkins,* Harold Kohn,* and Ivan Bernal, Crystal and Molecular Structure of Methyl 3-Methyl-2-thioxoimidazolidine-1-carboxylate. A Possible Structural Analogue for Caboxybiotin, *J. Chem. Soc., Perkin Trans. II*, 26-29 (1978).
11. Janice H. Arceneaux, Harold Kohn,* Marie Louise Steenberg, and Joseph P. Buckley,* Synthesis and Pharmacological Activity of N-Acyl-substituted Imidazolidinethiones and Thioimidazolines, *J. Pharm. Sci.*, 67, 600-602 (1978).
12. Harold Kohn,* Y. Gopichand, and P. Charumilind, Studies on the Reaction of Acylimidazolidones with Ketenes, *J. Org. Chem.*, 43, 4955-4961 (1978).
13. Harold Kohn,* P. Charumilind, and Y. Gopichand, Studies on the Reaction of Thiocarbonyl-Containing Compounds with Ketenes, *J. Org. Chem.*, 43, 4961-4965 (1978).
14. Christian von Rohrscheidt and Harold Kohn,* Selective Formation and Hydrolysis of Derivatives of 4-Iodo-3-ureido-1-butanol, *Tetrahedron Lett.*, 215-218 (1979).
15. Harold Kohn,* P. Charumilind, and S.H. Simonsen, 3,3,4,4-Tetraphenyl-1, 2-oxathiolan-5-one 2-Oxide. Synthesis, Structure and Selected Chemistry, *J. Am. Chem. Soc.*, 101, 5431-5432 (1979).
16. Melanie J. Cravey and Harold Kohn,* Model Studies on the Mechanism of Biotin-Dependent Carboxylations. 2. Site of Protonation vs. CO₂-Transfer, *J. Am. Chem. Soc.*, 102, 3928-3939 (1980).

17. P. Charumilind and Harold Kohn,* Studies on the Reaction of 3,3,4,4-Tetraphenylthietan-2-one, *J. Org. Chem.*, 45, 4359-4365 (1980).
18. Harry Flaster and Harold Kohn,* Syntheses and Spectral Properties of 2-Thiobiotin and Biotin Derivatives, *J. Heterocyclic Chem.*, 18, 1425-1436 (1981).
19. Harold Kohn,* Mary B. Bean, Christian von Rohrscheidt, M. R. Willcott, III, and E. W. Warnhoff, Participation in the Formation of Iodo Ureas from 3-Buten-1-ol Derivatives. A Reinvestigation, *Tetrahedron*, 37, 3195-3201 (1981).
20. Harold Kohn* and Zeng-Kun Liao, N-Amidoyliminium Ion Cyclizations. Synthesis of Annelated Imidazolidinones, *J. Org. Chem.*, 47, 2787-2789 (1982).
21. Sergio Cortes and Harold Kohn,* Selective Reductions of 3-Substituted Hydantoins to 4-Hydroxy-2-imidazolidinones and Vicinal Diamines, *J. Org. Chem.*, 48, 2246-2254 (1983).
22. I.-Ching Chiu and Harold Kohn,* Synthesis and Reactivity of trans-6-Azabicyclo[3.1.0]hexan-2-ol Derivatives and Indano[1, 2-b]aziridine. Structural Analogues of Mitomycin C., *J. Org. Chem.*, 48, 2857-2866 (1983).
23. Mary Bean and Harold Kohn,* Studies on the Reaction of Mitomycin C with Potassium Ethyl Monothiocarbonate under Reductive Conditions, *J. Org. Chem.*, 48, 5033-5041 (1983).
24. Ulfert Hornemann,* Kazuo Iguchi, Paul J. Keller, Huynh M. Vu, John F. Kozlowski, and Harold Kohn,* Reactions of Mitomycin C with Potassium Ethyl Xanthate in Neutral Aqueous Solution, *J. Org. Chem.*, 48, 5026-5033 (1983).
25. Harold Kohn* and Sang-Hun Jung, New Stereoselective Method for the Preparation of Vicinal Diamines from Olefins and Cyanamide, *J. Am. Chem. Soc.*, 105, 4106-4108 (1983).
26. Harold Kohn* and Nada Zein, Studies Concerning the Mechanism of Electrophilic Substitution Reactions of Mitomycin C, *J. Am. Chem. Soc.*, 105, 4105-4106 (1983).
27. Sang-Hun Jung and Harold Kohn,* A New Reductive Procedure for the Preparation of Vicinal Diamines and Monoamines, *Tetrahedron Lett.*, 25, 399-402 (1984).
28. Zeng-Kun Liao and Harold Kohn,* Intramolecular N-Carbamoyliminium Ion Cyclizations of Unactivated Alkenes and Acetylenes, *J. Org. Chem.*, 49, 3812-3819 (1984).
29. Zeng-Kun Liao and Harold Kohn,* Synthesis of Substituted 2-Imidazolidinones and Annelated Hydantoins via Amidoalkylation Transformations, *J. Org. Chem.*, 49, 4745-4752 (1984).
30. Sergio Cortes, Zeng-Kun Liao, Darrell Watson, and Harold Kohn,* The Effect of Structural Modification of the Hydantoin Ring on Anticonvulsant Activity, *J. Med. Chem.*, 28, 601-606 (1985).
31. Mary Bean and Harold Kohn,* Studies on the Reaction of Mitomycin C with Potassium Thiobenzoate under Reductive Conditions, *J. Org. Chem.*, 50, 293-298 (1985).
32. Sang-Hun Jung and Harold Kohn,* Stereoselective Synthesis of Vicinal Diamines from Alkenes and Cyanamide, *J. Am. Chem. Soc.*, 107, 2931-2943 (1985).

33. Zeng-Kun Liao and Harold Kohn,* Synthesis of Spiroimidazolidin-2-ones via Intramolecular N-Carbamoyliminium Ion Cyclization Reactions, *J. Org. Chem.*, 50, 1884-1888 (1985).
34. Sang-Hun Jung and Harold Kohn,* The Chemical Reactivity of Ethyl 2,2,3,3-Tetramethyl-1-aziridinecarboximidate, *Heterocycles*, 23, 2045-2050 (1985).
35. Nada Zein and Harold Kohn,* The Electrophilic and Nucleophilic Character of the Carbon-10 Methylene Group in Mitosenes Revealed, *J. Am. Chem. Soc.*, 108, 296-297 (1986).
36. Harold Kohn,* Nada Zein, X. Q. Lin, J.-Q. Ding, and K.M. Kadish,* Mechanistic Studies on the Mode of Reaction of Mitomycin C under Catalytic and Electrochemical Reductive Conditions, *J. Am. Chem. Soc.*, 109, 1833-1840 (1987).
37. Nada Zein and Harold Kohn,* Covalent Binding of Mitomycin C to Nucleosides under Reductive Conditions, *J. Am. Chem. Soc.*, 109, 1576-1577 (1987).
38. Judith D. Conley and Harold Kohn,* Functionalized DL-Amino Acid Derivatives. Potent New Agents for the Treatment of Epilepsy, *J. Med. Chem.*, 30, 567-574 (1987).
39. Nim Ming Nguy, I.-Ching Chiu, and Harold Kohn,* Synthesis and Reactivity of 6- and 7-Methoxyindano[1,2-b]aziridines, *J. Org. Chem.*, 52, 1649-1655 (1987).
40. Paul L. Fishbein and Harold Kohn,* Synthesis and Antineoplastic Activity of (N)-la-Formyl and (N)-la-Thionoformyl Derivatives of Mitomycin C and (N)-2-Methylaziridine, *J. Med. Chem.*, 30, 1767-1773 (1987).
41. Harold Kohn* and Judith D. Conley, New Antiepileptic Agents, *Chemistry in Britain*, 24, 231-234 (1988).
42. Harold Kohn* and Syed Abuzar, Reinterpretation of the Bicyclomycin-Sodium Methanethiolate Reaction, *J. Am. Chem. Soc.*, 110, 3661-3663 (1988).
43. Harold Kohn,* Syed Abuzar, James D. Korp, Andrew S. Zektzer, and Gary E. Martin,* Structural Studies of Bicyclomycin, *J. Heterocyclic Chem.*, 25, 1511-1517 (1988).
44. Harold Kohn* and Syed Abuzar, Studies on the Chemical Reactivity of Bicyclomycin: Acid Hydrolysis, *J. Org. Chem.*, 53, 2769-2773 (1988).
45. Harold Kohn,* Judith D. Conley, and J. David Leander,* Marked Stereospecificity in a New Class of Anticonvulsants, *Brain Research*, 457, 371-375 (1988).
46. Philippe LeGall, Kailash N. Sawhney, Judith D. Conley, and Harold Kohn,* Synthesis of Functionalized Non-natural Amino Acid Derivatives via Amidoalkylation Transformations, *Int. J. Peptide Protein Res.*, 32, 279-291 (1988).
47. Syed Abuzar and Harold Kohn,* Observations on the Activation of Bicyclomycin, *J. Am. Chem. Soc.*, 110, 4089-4090 (1988).
48. C. H. Lee and Harold Kohn,* 3,7-Bis(carboethoxy)perhydro-1,5,2,4,6,8-dithiatetrazocine 1,1,5,5-Tetroxide. Synthesis, Structure, and Chemistry, *Heterocycles*, 27, 2581-2588 (1988).

49. Kailash N. Sawhney and Harold Kohn,* Mitomycin C Analogues with a Substituted Hydrazine at Position 7. Synthesis, Spectral Properties, and Biological Activity, *J. Med. Chem.*, 32, 248-252 (1989).
50. Syed Abuzar and Harold Kohn,* Studies on the Reactivity of Bicyclomycin with Amines, *J. Am. Chem. Soc.*, 111, 4895-4903 (1989).
51. C. H. Lee, James D. Korp, and Harold Kohn,* 3-Oxo- and 3-Imino-4-substituted-1,2,5-thiadiazolidine 1, 1-Dioxides. Synthesis, Spectral Properties, and Selected Chemistry, *J. Org. Chem.*, 54, 3077-3083 (1989).
52. Syed Abuzar and Harold Kohn,* Studies on the Reactivity of Bicyclomycin with Nucleophilic Amino Acid Derivatives, *J. Org. Chem.*, 54, 4000-4003 (1989).
53. David J. Russell and Harold Kohn,* Development of a Hydrazine-mediated System for the Reductive Activation of Mitomycin C, *Heterocycles*, 31, 223-227 (1990).
54. C. H. Lee and Harold Kohn,* Anticonvulsant Properties of 3-Oxo- and 3-Imino-4-substituted-1,2,5-thiadiazolidine 1,1-Dioxides, *J. Pharm. Sci.*, 79, 716-718 (1990).
55. Harold Kohn,* Kailash N. Sawhney, Philippe LeGall, Judith D. Conley, David W. Robertson, and J. David Leander, Preparation and Anticonvulsant Activity of a Series of Functionalized α -Aromatic and α -Heteroaromatic Amino Acids, *J. Med. Chem.*, 33, 919-926 (1990).
56. Syed Abuzar and Harold Kohn,* Studies on the Reactivity of the Bicyclomycin with Thiols, *J. Am. Chem. Soc.*, 112, 3114-3121 (1990).
57. Harold Kohn* and Y. Hong, Observations on the Activation of Mitomycin C. Requirements for C-10 Functionalization, *J. Am. Chem. Soc.*, 112, 4596-4598 (1990).
58. Chai-Ho Lee and Harold Kohn,* Intra- and Intermolecular α -Sulfamidoalkylation Reactions, *J. Org. Chem.*, 55, 6098-6104 (1990).
59. Chai-Ho Lee and Harold Kohn,* Functionalized 5,6-Dihydro-2H-1,2,6-Thiadiazine 1,1-Dioxides. Synthesis, Structure and Chemistry, *J. Heterocyclic Chem.*, 27, 2107-2111 (1990).
60. Ven-Shun Li and Harold Kohn,* Studies on the Bonding Specificity for Mitomycin-DNA Monoalkylation Processes, *J. Am. Chem. Soc.*, 113, 275-283 (1991).
61. Y. P. Hong and Harold Kohn,* Studies on the Use of $\text{Cr}(\text{ClO}_4)_2$ for the Reductive Activation of Mitomycin C, *J. Am. Chem. Soc.*, 113, 4634-4644 (1991).
62. Insook Han and Harold Kohn,* 7-Aminoaziridinomitosenes: Synthesis, Structure, and Chemistry, *J. Org. Chem.*, 56, 4648-4653 (1991).
63. Harold Kohn,* Kailash N. Sawhney, Philippe LeGall, David W. Robertson, and J. David Leander, Preparation and Anticonvulsant Activity of a Series of Functionalized α -Heteroatom Substituted Amino Acids, *J. Med. Chem.*, 34, 2444-2452 (1991).
64. Marco A. Vela and Harold Kohn,* Studies on the Reactivity of Bicyclomycin 3'-O-Methanesulfonate. A Novel Ring-Expansion Transformation, *J. Org. Chem.*, 56, 5462-5464 (1991).

65. Y. P. Hong and Harold Kohn,* $\text{Cr}(\text{ClO}_4)_2$: An Effective Reagent for the Preparation of Mitomycin C Nucleophilic Substituted Compounds, *J. Org. Chem.*, 56, 6479-6482 (1991).
66. Insook Han, David J. Russell, and Harold Kohn,* Studies on the Mechanism of Mitomycin C(1)-Electrophilic Transformations: Structure-Reactivity Relationships, *J. Org. Chem.*, 57, 1799-1807 (1992).
67. Harold Kohn,* Ven-Shun Li, and Moon-shong Tang,* Recognition of Mitomycin C-DNA Monoadducts by UVRABC Nuclease, *J. Am. Chem. Soc.*, 114, 5501-5509 (1992).
68. Yeong Soo Oh and Harold Kohn,* Comparative Studies on the Reactivity of 4-Methylene-1-oxa-6,9-diazaspiro[4.5]decane-7,10-dione, 1-Acetyl-3-hydroxy-3-vinyl-2,5-piperazinedione, and Bicyclomycin. Examination of a Key Structural Element Necessary for Bicyclomycin-mediated Transformations, *J. Org. Chem.*, 57, 3662-3672 (1992).
69. Pascal Schiltz and Harold Kohn,* Sodium Dithionite-Mediated Mitomycin C Reductive Activation Processes, *Tetrahedron Lett.*, 33, 4709-4712 (1992).
70. Marco A. Vela and Harold Kohn,* The Synthesis and Reactivity of [N(8)-C(3')]-Cyclized Bicyclomycin. Evidence of the Role of the C(1)-Triol Group in Bicyclomycin-Mediated Processes, *J. Org. Chem.*, 57, 5223-5231 (1992).
71. Pascal Schiltz and Harold Kohn,* Reductively Activated Mitomycin C: An Efficient Trapping Reagent for Electrophiles, *J. Am. Chem. Soc.*, 114, 7958-7959 (1992).
72. Marco A. Vela and Harold Kohn,* Observations Concerning the Reactivity of Bicyclomycin and Bicyclomycin Derivatives with Organophosphorous Reagents, *J. Org. Chem.*, 57, 6650-6653 (1992).
73. Harold Kohn,* Ven-Shun Li, Pascal Schiltz, and Moon-shong Tang,* On the Origins of the DNA Sequence Selectivity of Mitomycin Monoalkylation Transformations, *J. Am. Chem. Soc.*, 114, 9218-9220 (1992).
74. Harold Kohn,* Ven-Shun Li, Pascal Schiltz, and Moon-shong Tang, Studies Concerning the Origins of the Selectivity of Mitomycin-DNA Monoalkylation Transformations, *Verlag Helv. Chim. Acta (Proceedings of the XIIth International Symposium on Medicinal Chemistry)*, pp. 331-346 (1993).
75. Antoni Zwiefka, Harold Kohn,* and William R. Widger,* Transcription Termination Factor rho: The Site of Bicyclomycin Inhibition in *Escherichia coli*, *Biochemistry*, 32, 3564-3570 (1993).
76. Pascal Schiltz and Harold Kohn*, Studies on the Use of $\text{Na}_2\text{S}_2\text{O}_4$ for the Reductive Activation of Mitomycin C, *J. Am. Chem. Soc.*, 115, 10497-10509 (1993).
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79. Harold Kohn,* Kailash N. Sawhney, Patrick Bardel, David W. Robertson and J. David Leander, Synthesis and Anticonvulsant Activities of α -Heterocyclic α -Acetamido-*N*-benzylacetamide Derivatives, *J. Med. Chem.*, 36, 3350-3360 (1993).

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85. Hyeung-geun Park, Antoni Zwiefka, William Widger,* and Harold Kohn,* Bicyclomycin and Dihydrobicyclomycin Inhibition Kinetics of *Escherichia coli* rho-Dependent Transcription Termination Factor ATPase Activity, *Arch. Biochem. Biophys.*, 323, 447-454 (1995).
86. Ven-Shun Li, Daeock Choi, Moon-shong Tang,* and Harold Kohn,* Structural Requirements for Mitomycin C DNA Bonding, *Biochemistry*, 34, 7120-7126 (1995).
87. Daeock Choi, Byungwoo Yoo, Kimberly L. Colson, Gary E. Martin, and Harold Kohn,* C(10) Halogen 10-Deoxycarbamoylporfiromycins: Synthesis, Chemistry, and Biological Activity, *J. Org. Chem.*, 60, 3391-3396 (1995).
88. Zhuming Zhang, Hyeung-guen Park, and Harold Kohn,* Bicyclomycin Oxidative Transformations. Synthesis and Properties of Bicyclomycin-5-norketone, *J. Org. Chem.*, 60, 5346-5351 (1995).
89. Daeock Choi and Harold Kohn,* Trimethylsilyl Halides: Effective Reagents for the Synthesis of β -Halo Amino Acid Derivatives, *Tetrahedron Lett.*, 36, 7011-7014 (1995).
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92. Ven-Shun Li, Daeock Choi, Zheng Wang, Leslie S. Jimenez, Moon-shong Tang,* and Harold Kohn,* Role of the C-10 Substituent in Mitomycin C-1—DNA Bonding, *J. Am. Chem. Soc.*, 118, 2326-2331 (1996).
93. Ven-Shun Li, Daeock Choi, Moon-shong Tang, and Harold Kohn,* Concerning *In Vitro* Mitomycin—DNA Alkylation, *J. Am. Chem. Soc.*, 118, 3765-3766 (1996).
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100. Hyeung-geun Park, Zhuming Zhang, Xiangdong Zhang, William R. Widger, and Harold Kohn,* The Role of the C(5)-C(5a) Exomethylene Group in Bicyclomycin: Synthesis, Structure, and Biochemical and Biological Properties, *J. Org. Chem.*, 61, 7764-7776 (1996).
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141. Cécile Béguin, Arnaud LeTiran, James P. Stables, and Harold Kohn,* *N*-Substituted Amino Acid *N'*-Benzylamides: Synthesis, Anticonvulsant and Metabolic Activities, *Bioorg. Med. Chem.*, 12, 3079-3096 (2004).
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143. Min Shen, Cécile Béguin, Alexander Golbraikh, James P. Stables, Harold Kohn* and Alexander Tropsha,* Application of Predictive QSAR Models to Database Mining: Rational Discovery of Novel Anticonvulsant Lead Compounds, *J. Med. Chem.*, 47, 2356-2364 (2004).
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147. Sang Hyup Lee, Robert L. Brodnick, Gary L. Glish, and Harold Kohn,* 3,8,11,16-Tetrakis(aminomethyl)-1,2,9,10-tetrathiacyclohexadecane Tetra-trifluoroacetic Acid: Synthetic Precursor to a Novel Thio-Substituted Diamine, *Tetrahedron*, 61, 1749-1754 (2005).
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150. Harold Kohn* and William Widger*, The Molecular Basis for the Mode of Action of Bicyclomycin, *Current Drug Targets: Infect. Disord.* 5, 273-295 (2005).
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- Benzylacetamide Derivatives: A Novel Anticonvulsant Drug Class, *Can. J. Chem.*, 83, 37-45 (2005).
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153. Boon Sang Park, William R. Widger, and Harold Kohn,* Fluorine-substituted Dihydrobicyclomycins: Synthesis, Biochemical and Biological Properties, *Bioorg. Med. Chem.* 14, 41-61 (2006).

Oral Presentations

Harold Kohn, "Functionalized Amino Acids: New Antiepileptic Agents and Pharmacological Tools," Symposium of the E.N.S.C.R., Rennes, France, May 2001.

Harold Kohn, "Studies on the Mode of Action of the Antibiotic Bicyclomycin and Rho," Department of Chemistry, North Carolina State University, April, 2000; ENSCR, Rennes, France, October, 2000; CPE-Lyon, Lyon, France, October 2000; Biosearch Italia S.p.A., Milan, Italy, October, 2000; University of North Carolina – School of Pharmacy, January 2001; University of North Carolina – Department of Pharmacology, February, 2001; University of Arizona, College of Pharmacy, March, 2001, North Carolina Central University, October, 2002.

Harold Kohn, Shuang Wang, Younghwa Na, Ven-Shun Li, "7-N-(2-Mercaptoethyl)mitomycin: A Novel DNA Binding Agent" invited symposium lecture at 218th National Meeting of the American Chemical Society, New Orleans, LA, August, 1999.

Harold Kohn, "Studies on the Mode of Action of the Antibiotic Bicyclomycin," Department of Chemistry, University of California at Los Angeles, March, 1998.

Harold Kohn, "Studies on the Mode of Action of Bicyclomycin," School of Pharmacy, University of North Carolina, July, 1999, Abilene Christian University, May, 1999; Southwestern State University-San Marcos, May, 1999; Sul Ross State University – Alpine, November, 1999).

Harold Kohn, Shuang Wang, Ven-Shun Li, Moon-shong Tang, "Is Mitomycin C an Efficient Alkylating Agent?" invited symposium lecture at 215th National Meeting of the American Chemical Society, Dallas, TX, March 1998.

Harold Kohn, "Studies on the Mode of Action of the Novel Antibiotic, Bicyclomycin" (invited lecture), AFMC International Medicinal Chemistry Symposium, Seoul, Korea, July 1997.

Harold Kohn, "Studies on the Mode of Action of Mitomycin C," Seoul National University, College of Pharmacy, Seoul, Korea, July, 1997; Chungnam National University, Taejon, Korea, July, 1997; Kyowa Hakko Kogyo, Co., Ltd., Shizuoka, Japan, August, 1997.

Harold Kohn, "Studies on the Mode of Action of Bicyclomycin," Younghan University, College of Pharmacy, Taegu, Korea, July, 1997; Fujisawa Pharmaceutical Co., Ltd., Tsukuba, Japan, August, 1997.

Harold Kohn, Ven-Shun Li, Shuang Wang, and Moon-shong Tang, "The Efficiency and Selectivity of Activated Mitomycin–DNA Alkylation Processes," 52nd Southwest Regional Meeting of the ACS, Houston, TX, October, 1996.

Harold Kohn, "Studies on the Mode of Action of Mitomycin C," University of Houston, College of Pharmacy, March, 1996.

Harold Kohn, "Studies on the Mode of Action of Bicyclomycin," University of North Carolina, School of Pharmacy, March, 1994; Vanderbilt University, Department of Chemistry, Nashville, TN, March 1994; University of Texas at Austin, Department of Chemistry and Biochemistry, March 1994.

Harold Kohn, "Studies on the Mode of Action of Mitomycin C both in the Absence and Presence of DNA", Northwestern University, Department of Chemistry, Evanston, IL, November 1993; Texas A & M University, College Station, Department of Chemistry, February 1993.

Harold Kohn, "Functionalized Amino Acid Derivatives as a New Class of Anticonvulsants", Harris FRC Corporation, Hazlet, NJ, November 1994.

Harold Kohn, Suganthini Subramaniam, Pascal Schiltz, Ven-Shun Li, Moon-shong Tang, "The Chemistry and DNA Bonding Properties of Selectively Submitted Mitomycins", invited symposium lecture at 1993 ACS Southwest Regional Meeting on "DNA Reactive Drugs", Austin, TX, November 1993.

Harold Kohn, Ven-Shun Li, Pascal Schiltz, and Moon-shong Tang, "Studies Concerning the Origins of the Selectivity of Mitomycin-DNA Monoalkylation Transformations", invited lecture at XIIth International Symposium of Medicinal Chemistry, Basel, Switzerland, September 1992.

Harold Kohn, "Studies on the Mechanism of Mitomycin C Activation and DNA Binding," invited lecture at Symposium in Honor of Peter A. S. Smith, University of Michigan, Ann Arbor, MI, November 1991.

Harold Kohn, "Correlation of Bicyclomycin Structure with Drug Function," invited lecture at Symposium in Honor of Ronald Breslow, Columbia University, New York, August 1991.

Harold Kohn, Y. P. Hong, and Ven-Shun Li, "Mechanism of DNA Alkylation by Mitomycin C," invited symposium lecture, 201st ACS National Meeting, Division of Medicinal Chemistry, Atlanta, GA, April 1991, Med. Chem. Abst. 91.

Harold Kohn, "Studies on the Mode of Action of Mitomycin C," Rice University, Houston, Department of Chemistry, January, 1991; invited symposium lecture, Texas Chemistry/Biochemistry Forum, University of Texas at Austin, TX, May 1991; Texas Biotechnology Corporation, Houston, TX, May 1992.

J. David Leander, Harold Kohn, Philippe LeGall, Kailash N. Sawhney, and David W. Robertson, "A Potent, Stereoselective Anticonvulsant Against Maximal Electric Shock (MES) Seizures," Princeton Drug Research Symposia: "Current and Future Trends in Anticonvulsant, Anxiety and Stroke Therapy," Princeton, NJ, May 1989.

Harold Kohn and Syed Abuzar, "Studies on the Activation of Bicyclomycin," 196th National Meeting of the ACS, Los Angeles, CA, September 1988, Abs. Orgn. 272.

Harold Kohn and Syed Abuzar, "Studies on the Reactivity of Bicyclomycin in both Acid and Base," 3rd Chemical Congress of North America, Toronto, Canada, June 1988, Abs. Orgn. 287.

Harold Kohn, "Studies on the Mode of Action of Bicyclomycin," University of Texas, College of Pharmacy, June 1988; University of Texas, Department of Chemistry, November 1989; Institute for Molecular Design, University of Houston, December 1989; Lederle Laboratories, New York, January 1990.

Harold Kohn, "Cracking the Drug Problem," University of Michigan, Ann Arbor, Department of Chemistry, March 1988.

Discussion Leader at the XXXI Welch Foundation Conference on Chemical Research: "Design of Enzymes and Enzyme Models," Houston, November 1987.

Judith D. Conley and Harold Kohn, "Functionalized Amino Acid Derivatives. Potent New Agents for the Treatment of Epilepsy," 193rd National Meeting of the ACS, Denver, CO, April 1987, Abs. Med. Chem. 25.

Harold Kohn, Nada Zein, J. Q. Ding, and K. M. Kadish, "Studies on the Mode of Action of Mitomycin C under Reductive Conditions," 191st National Meeting of the ACS, New York, NY, April 1986, Abs. Orgn. 184.

Nada Zein and Harold Kohn, "Interaction of Mitomycin C with Simple DNA Bases," NATO-ASI-FEBS Meeting, Samur, France, September 1988.

Harold Kohn, "Functionalized Amino Acid Derivatives. A New Class of Antiepileptic Agents", E. I. Lilly, May 1985.

Harold Kohn and S. H. Jung, "A New Stereoselective Method for the Preparation of Vicinal Diamines from the Olefins and Cyanamide," 186th National Meeting of the ACS, Washington, D.C., August 1983, Abs. Orgn. 63.

Harold Kohn, "Studies on the Mode of Action of Mitomycin C" Talks presented at the College of Pharmacy, University of Houston, (November 1982), ESCIL (Lyon, France), (May 1983), University of Texas, Austin-College of Pharmacy (March 1984), E. I. Lilly, Indianapolis (May 1986), Texas Carcinogenesis Meeting II (invited talk) Houston (November 1986), Gordon Conference on Heterocyclic Compounds, New Hampton (July 1986).

Harold Kohn and I.-Ching Chiu, "Syntheses and Reactivity of Structural Analogues of Mitomycin C," 184th National Meeting of the ACS, Kansas City, MO., Sept. 1982, Abs. Orgn. 183.

Harold Kohn, Sergio Cortes, and Zeng-Kun Liao, "Selective Reductions of Hydantoins. Preparation of Annelated Imidazolidinones," 183rd National Meeting of the ACS, Las Vegas, NV, April 1982, Abs. Orgn. 204.

Harold Kohn, "Heterocycles Created and Destroyed in the Pursuit of Biochemical Mechanisms", Talks presented at 28th Congress of the International Union of Pure and Applied Chemistry, Vancouver, August 1981, Orgn. 55 (invited talk); Pfizer Co. (May 1981), University of Houston (September 1981).

Harold Kohn and P. Charumilind, "Synthesis and Properties of 3,3,4,4-Tetraphenyl- β -thiolactone and 3,3,4,4-Tetraphenyl-1,2-oxathiolan-5-one 2-Oxide," 178th National Meeting of the ACS, Washington, D. C., September 1979, Abs. Orgn. 158.

Harold Kohn, P. Charumilind, and Y. Gopichand, "Reactions of Trithiocarbonic Acid Derivatives with Substituted Ketenes," 174th National Meeting of the ACS, Chicago, IL, August 1977, Abs. Orgn. 36.

Harold Kohn and Melanie J. Cravey, "Model Studies on the Mechanism of Biotin Dependent Carboxylations. Reactivity of N-Methyl-N'-carbomethoxy-2-ethoxy-imidazolium Fluoroborate," 172nd National Meeting of the ACS, San Francisco, CA September 1976, Abs. Orgn. 252.

Harold Kohn, "Synthesis of Substituted Thioimidazolines. A Possible Model for Biotin Reactions," 170th National Meeting of the ACS, Chicago, IL, August 1975, Abs. Orgn. 11.

R.A. Olofson, Harold Kohn, R.V. Kendall, and W. P. Piekielek, " The Kinetics of Ring C-H Ionization in the N-Methylpolyazoles: Position, Isomer, and N-Number Effects," 160th National Meeting of the ACS, Chicago, IL, September 1970, Abs. Orgn. 76.

Harold Kohn, "Selected Studies on the Chemistry of Thiones, β -Thiolactones and Carboxylic-Sulfinic Acid Anhydrides". Talks presented at Abilene Christian University (March 1980), McMurray College (March 1980).

Harold Kohn, "Model Studies on the Mechanism of Biotin Dependent Carboxylations." Talks presented at Baylor University (October 1977), College of Pharmacy, University of Houston (Nov. 1977), Tulane University (March 1976), Stephen F. Austin University (February 1976).

Harold Kohn, "The Variation in the Kinetic Acidities in the N-Methylpolyazoles: The N-Result." Talks presented at East Texas University (February 1974), University of Houston (February 1973), University of North Carolina, Charlotte (February 1973), Rohm and Haas Co. (February 1973), Union Carbide Co. (February 1973), Pfizer Co. (January 1973), Columbia University (October 1972).

Current Research Funding

NIH, "Novel Methods to Identify Targets of the Neurological Agent (*R*)-Lacosamide: July 1, 2006-June 30, 2010, 1 R01 NS054112-01; \$225,000 (direct costs) per year.

Research Students

Doctoral Students

Dr. Mary Bean

Thesis: "Mechanistic and Synthetic Studies of the Reaction of Mitomycin C with Ambident Nucleophiles"

Ph.D. granted: May 1983.

Current Position: Visiting Assistant Professor, University of Houston.

Dr. Patrick Bardel

Thesis: "Synthesis of Functionalized Amino Acids and Studies on their Mode of Action for the Control of Convulsive Disorders"

Ph.D. granted: February, 1994.

Postdoctoral Training: Dr. T. William Hutchens, University of California at Davis.

Current Position: Research Scientist, Rhône-Poulenc Agrochimie (France)

Dr. Cécile Béguin

Thesis: "Synthesis and Mechanistic Evaluation of Analogues of Functionalized Amino Acids: An Emerging Class of Neuroprotective Agents:

Ph.D. granted: December, 2002

Postdoctoral Training: Dr. B. Cohen (Harvard School of Medicine)

Dr. Andrew P. Brogan

Thesis: "Novel Inhibitors of the Transcription Termination Factor Rho and Mechanistic Studies of Rho Function"

Ph.D. Granted: August, 2004

Postdoctoral Training: Postdoctoral Fellow with Professor Kim Janda (Scripps Institute)

Dr. Daeock Choi

Thesis: "Synthesis, Chemistry, and Biological Evaluation of Medicinally Relevant Compounds"

Ph.D. granted: September 1995

Postdoctoral Training: Postdoctoral Fellow with Dr. Randall E. Millikan, M.D. Anderson Cancer Center (Houston, TX).

Current Position: Assistant Professor, Department of Chemistry, Sunchon National University (Korea)

Dr. Judith Conley

Thesis: "Functionalized Amino Acid Derivatives. Potent New Agents for the Treatment of Epilepsy: Synthesis, and Spectroscopic and Pharmacological Properties"

Ph.D. granted: December 1985.

Current Position: Research Scientist, Nalco Co. (Houston, TX).

Dr. Pana Charumilind

Thesis: "Selected Chemistry of Sulfur-Containing Compounds: Thiones, β -Thiolactones, and Carboxylic-Sulfinic Acid Anhydrides"

Ph.D. granted: September 1979.

Postdoctoral Training: Dr. L. Paquette (Ohio State University).

Current Position: Research Scientist, Monsanto Chemical Co. (St. Louis, MO).

Dr. Sergio Cortes

Thesis: "3-Substituted Hydantoins: Syntheses, Structure, Chemical Reactivity and Pharmacological Properties"

Ph.D. granted: September 1982.

Postdoctoral Training: Professor D. Sherry (University of Texas at Dallas).

Current Position: Visiting Assistant Professor, University of Texas at Dallas

Dr. Melanie Cravey

Thesis: "Model Studies on the Mechanism of Biotin Dependent Carboxylations. Site of Protonation versus CO_2 -Transfer"

Ph.D. granted: November 1977.

Current Position: Assistant Professor, Texas A&M University at Galveston.

Dr. Harry Flaster

Thesis: "Selective Probes into the Mechanism of Biotin Action: The Selection, Syntheses, and Spectral Properties of the S-Methylated Derivatives of Thiobiotin and Other Biotin Analogs"

Ph. D. granted: January 1983.

Current Position: Assistant Professor, University of California at Los Angeles Medical School.

Dr. Insook Han

Thesis: "Studies on the Mode of Action of Mitomycin C"

Ph.D. granted: August 1991.

Postdoctoral Training: Postdoctoral Fellow with Dr. Perez-Solar (M.D. Anderson Cancer Center, Houston, TX).

Current Position: Assistant Professor, Institute for Medical Science, Keimyung University (Korea)

Dr. Yong Pyo Hong

Thesis: "Studies on the Use of $\text{Cr}(\text{ClO}_4)_2$ for the Reductive Activation of Mitomycin C"

Ph.D. granted: May 1991.

Postdoctoral Training: Dr. K. C. Nicolaou (University of California-San Diego).

Current Position: Assistant Professor, Department of Chemistry, Andong National University, Andong, Korea.

Dr. Sang-Hun Jung

Thesis: "New Methods for the Preparation of Vicinal Diamines and Monoamines from Olefins and Cyanamide"

Ph.D. granted: January 1984.

Postdoctoral Training: Dr. T. Cohen (University of Pittsburgh).

Current Position: Associate Professor, College of Pharmacy, Chungnam University (Korea).

Dr. Sang Hyup Lee

Thesis: "Synthesis and Mechanistic Studies of Novel Mitomycins"

Ph.D. granted: May 2003

Postdoctoral Training: Dr. K.C. Nicolaou (Scripps Research Institute)

Dr. Arnaud LeTiran

Thesis: "Synthesis of Functionalized Amino Acids (FAA) and FAA Affinity Labels. Studies on their Mode of Action for the Control of Convulsive Disorders"

Ph.D. granted: December 2000

Postdoctoral Training: Dr. James P. Morken (University of North Carolina, Chapel Hill)

Current Position: Research Scientist - Vertex

Dr. Z. K. Liao

Thesis: "The Study of Intramolecular N-Amidoyliminium Ion Initiated Cyclization Reactions"

Ph. D. granted: August 1984

Current Position: Group Leader, Dow Chemicals (Freeport, TX)

Dr. Younghwa Na

Thesis: "Synthesis and Evaluation of Novel Mitomycins"

Ph.D. granted: December 2000

Postdoctoral Training: Dr. Laurence Hurley (University of Arizona).

Dr. Yeong-Soo Oh

Thesis: "Studies on the Mode of Action of Bicyclomycin"

Ph.D. granted: June 1990.

Postdoctoral Training: Dr. M. Goodman (University of California-San Diego)

Current Position: Group Leader, Lucky, Ltd. (San Diego).

Dr. Hyeung-geun Park

Thesis: "Studies on the Mechanism of Action and the Structure-Activity Relationship of the Antibiotic Bicyclomycin"

Ph.D. granted: September 1995

Postdoctoral Training: Dr. Stephen J. Benkovic (Pennsylvania State University -University Park, PA)

Current Position: Assistant Professor, Seoul National University, College of Pharmacy (Korea)

Dr. David Russell

Thesis: "Development of a Hydrazine Mediated System for the Reductive Activation of Mitomycin C"

Ph.D. granted: June 1989

Current Position: Research Scientist, Bristol-Myers Squibb (New Brunswick, NJ).

Dr. Alejandro Santillán, Jr.

Thesis: "Semisynthetic, Chemical, Biochemical and Biological Studies on the Mode of Action of the Antibiotic Bicyclomycin"

Ph.D. granted: August 1997

Postdoctoral Training: Dr. D. Boger (Scripps Research Institute)

Current Position: Scientist, R.W. Johnson Pharmaceutical Research Institute (San Diego, CA)

Dr. Pascal Schiltz

Thesis: "Studies on the Mechanism of $\text{Na}_2\text{S}_2\text{O}_4$ -mediated Mitomycin C Transformations"

Ph.D. granted: August 1992

Current Position: Scientist, Sanofi Elf Bio Recherches, Castanet-Tolosan (France)

Dr. Fabien Vincent

Thesis: "Studies on the Antibiotic Bicyclomycin – Transcription Termination Factor Rho Interaction"

Ph.D. granted: December 1999

Postdoctoral Training: Dr. Peter Schultz (Genomics Institute of the Novartis Foundation-San Diego, CA).

Dr. Shuang Wang

Thesis: "Studies on the Mode of Action of Mitomycins KW-2149 and BMS-181174"

Ph.D. granted: August, 1998

Postdoctoral Training: Dr. R. Silverman (Northwestern University)

Dr. Thomas P. Weber

Thesis: "Studies on the Roles of Metals for Transcription Termination Factor Rho Function and the Mode of Action of the Antibiotic Bicyclomycin. Discovery of a Novel Class of Metal-Based Rho Inhibitors"

Ph.D. granted: November, 2002

Current position: Postdoctoral Fellow – AstraZeneca (Boston, MA)

Dr. Nada Zein

Thesis: "Mechanistic Studies on the Mode of Action of the Antineoplastic Agent Mitomycin C"

Ph.D. granted: July 1986

Postdoctoral Training: Dr. G. Ellestad (Lederle Laboratories).

Current Position: Research Scientist, Genomics Institute of the Novartis Foundation (San Diego, CA)

Dr. Xiangdong Zhang

Thesis: "Studies on the Mode of Action of the Antibiotic Bicyclomycin"

Ph.D. granted: December, 1997

Postdoctoral Training: Dr. Harold Kohn

Dr. Zhuming Zhang

Thesis: "Semisynthetic, Mechanistic, Biochemical, and Biological Studies on the Mode of Action of Bicyclomycin"

Ph.D. granted: November, 1994

Postdoctoral Training: Dr. Robert Holton (Florida State University)

Current Position: Research Scientist, Hoffman LaRoche (Nutley, NJ)

Master Students

Janice Arceneaux

Thesis: "Selectedly Substituted Imidazolidinethiones and Thioimidazolines: Syntheses, Structure, Chemical Reactivity and Pharmacological Properties"

M.S. granted: October 1976

Current Position: Teacher, Houston Independent School District

Hangjin Cho

Thesis: "Studies Directed Toward the Identification of the Bicyclomycin Binding Domain in Rho: Use of Affinity Labels"

M.S. granted: January 1998

Philippe LeGall

Thesis: "2-Substituted-2-acetamido-N-benzylacetamides. Synthesis, Spectroscopic, and Anticonvulsant Properties"

M.S. granted: August 1987

Current Position: Managing Director, American Stelmi Corp. (Princeton)

Nim-Ming Nguy

Thesis: "Studies Concerning the Role of the Carbon-8 Hydroxyl Group in Reduced Mitomycin C Processes. Synthesis and Hydrolysis of 6-and 7-Methoxy Indano[1,2-b]aziridines"

M.S. granted: November 1985

Current Position: Researcher, L'Oreal (Paris)

Jayasree M. Srinivasan

Thesis: "Synthesis and Evaluation of Novel Bicyclomycin Affinity Labels and Mechanistic Probes"

M.S. granted: December 2000

Current Position: Researcher, Synaptic Pharmaceutical Inc. (Paramus, NJ)

Suganthini Subramaniam

Thesis: "The Role of the C-7 Substituent in Reductively Activated Mitomycin Processes"

M.S. granted: August 1991

Current Position: Researcher, Glaxo, Inc. (North Carolina)

Eric Yang

Thesis: "Selective Model Studies Concerning the Mechanism of CO₂-Transfer in Biotin-Dependent Transformations"

M.S. granted: April 1984

Current Position: Research Chemist, Cecos International (Cincinnati, OH)

Postdoctoral Students and Visiting Faculty

Dr. Syed Abuzar (1986-1989)

Dr. Shridhar Andurkar (1996-1998)

Dr. I. Ching Chiu (1981-1982)

Dr. Pana Charumilind (1979)

Dr. Judith Conley (1986-1987)

Dr. Paul Fishbein (1984-1986)

Dr. Y. Gopichand (1975-1976)

Dr. Nam Huh (1994-1996)
 Dr. Tapan Khan (2003-2004)
 Dr. M. Kim (2000-2003)
 Professor Chai-Ho Lee (1987-1990)
 Professor Oh-seuk Lee (1993-1994)
 Dr. Ven-Shun Li (1988-1999)
 Dr. Phei Lok (2003-2004)
 Dr. Boon-saeng Park (2002-2004)
 Dr. Hong-sik Moon (1993-1994)
 Dr. Dennis O'Donoghue (1984)
 Dr. Christian von Rohrscheidt (1977-1978)
 Dr. Kailash Sawhney (1986-1991)
 Dr. S. Srivastava (2002-2003)
 Dr. Kurt Teets (1994-1996)
 Dr. Marco Vela (1990-1992)
 Dr. Chen Wang (1999-2000)
 Professor Darrell Watson (1982)
 Dr. Byungwoo Yoo (1993-1994)
 Dr. A. Zweifka (1990-1992)

Undergraduate Students

Lisa Albe (1985)
 Susan Correu (1974)
 Rodney Cravey (1975)
 Michael Eichberg (1993)
 Ms. Ginny Grant (2002-2003)
 Dennis Keith (1974)
 Kaye Lemke (1980)
 Andrew McCallum (1985)
 Samuel Mellor (1977)
 Christina Sarubbi (2003-2004)
 Mark Teasley (1980)
 David Williams (1974)

Current Students and Postdoctoral Fellows

Pierre Morieux (2006-)

University and Departmental Services and Activities

(a) University of Houston

American Chemical Society, Houston Awards Committee	1993-95
ACS Symposium Co-Organizer	
49th Southwest Regional Meeting	1993
52nd Southwest Regional Meeting	1996
University of Houston Research Council	1986-87
University of Houston Biomedical Sciences	
Research Grant Committee	1983-87
University of Houston Faculty Research Awards Committee	1988, 1994
University of Houston Institute of Molecular Design	1990-92
University of Houston Intellectual Property Committee	1990-96

College Policy Committee	1987-89
	1995-98
College Development Committee	1975-76
Organic Division Chair	1980-82
Personnel Committee	1979-87
	1988-99
Graduate Committee	1991-92
Welch Chair Search Committee	1981-82
Awards Committee Chair	1992-95
Awards Committee	1979-95
Stockroom Committee	1981-87
NMR Committee	1978-81
	1983-84
	1989-91
NMR Manager Search Committee Chair	1995
University of Houston NMR Institute	1984-89
Organic Division Seminar Chair	1974-75
	1979-80
	1988-89
Organic Faculty Search Committee	1976-77
	1984-86
	1990-92
Physical Chemistry Search Committee	1993-94
University of Houston Honors Program Selection Committee	1975-78
Finance and Planning Committee	1974-76
Seminar Committee	1973-75
Co-Chairman of Bio-organic-Bio-inorganic Group for Ad Hoc Committee for Mission Self Study Committee	1975
Undergraduate Committee	1973-74
Coauthor, National Science Foundation Instructional Scientific Equipment Program Proposal	1974
 (b) <u>University of North Carolina – Chapel Hill</u>	
Chair, Division of Medicinal Chemistry and Natural Products	1999-2005
Co-Chair, Symposium of Functional Genomics and Proteomics, University of North Carolina – Chapel Hill	2001-02
Director, William H. and Karen Campbell Junior Faculty Mentoring Program	2006-present
 (c) <u>National</u>	
Canvassing Committee – ACS A. Bader Award in Bioinorganic and Bioorganic Chemistry	1993-96
American Cancer Society, Study Section <i>ad hoc</i>	1992
National Institutes of Health, Study Section <i>ad hoc</i>	1992, 2003, 2005
Purdue Cancer Center Review Panel	2004
Georgia State University-Department of Chemistry Site review	2006