
CURRICULUM VITAE

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PERSONAL

Date of Birth: June 10, 1953, Easton, PA
Marital Status: Married, two daughters
Citizenship: United States of America

EDUCATION

Boston College Chestnut Hill, Massachusetts Sept., 1971 to June, 1975 B.S. Chemistry, Magna Cum Laude	University of Rochester Rochester, New York Matriculated Sept., 1975 Ph.D. June, 1979
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University of Wisconsin
Madison, Wisconsin
Postdoctoral Fellow
August, 1979-July, 1981

EMPLOYMENT

Department of Chemistry
University of Pittsburgh
Pittsburgh, PA 15260
Assistant Professor, August, 1981-August, 1986
Associate Professor, September, 1986-December, 1987
Full Professor, 1988-1996
Distinguished Service Professor and Bayer Professor, 1996-present

SOCIETIES AND HONORS

Fellow of the American chemical Society, Inaugural Class of 2009
Provost's Award for Excellence in Mentoring, University of Pittsburgh, 2009
Chaire d'excellence, Agence National de la Recherche (ANR), France, 2009-2010
American Chemical Society Award for Creative Work in Fluorine Chemistry, 2008
Most Cited Paper in Tetrahedron, 2005-2008 (#355, a review on fluorous solid phase extraction)
University of Pittsburgh Innovator Award, 2007

Harry and Carol Mosher Award, Santa Clara Valley Section, ACS, 2007
Blaise Pascal International Research Chair, Préfecture de la Région D'Ile-de-France (Paris), 2007-2008
International Society of Fluorous Technology (ISOFT) Noguchi Award, 2007 (Shared with J. Gladysz)
"Ryudo" Visiting Professor, Tokyo Institute of Technology, 2007
The Pittsburgh Award, Pittsburgh Section, American Chemical Society, 2006
Morley Medal, Cleveland Section, American Chemical Society, 2006
National Science Foundation, Creativity Extension, 2005-2006
National Institutes of Health (NIGMS), Merit Award, 2004-2009
Pittsburgh Magazine, Innovator of the Year Award, 2003
Fellow, American Association for the Advancement of Sciences, 2001
ISI Highly Cited Researcher, among top 100 in chemistry (www.ISIHighlyCited.com), 2000-present
Boston College Alumni Achievement Award for Excellence in Science, 2000
American Chemical Society Award for Creativity in Organic Synthesis, 2000
Chancellor's Distinguished Research Award (Univ. of Pittsburgh), 1999
Janssen Prize for Creativity in Organic Synthesis, 1998
Humboldt Senior Research Awardee, 1998-2002
University Visiting Professor, Kyushu University, 1996
Fuson Professor, University of Illinois, 1995
Reichstein Professor, University of Basel, 1994
Japan Society for the Promotion of Science Fellow, 1994
ICI Award for Excellence in Chemistry, 1990
President's Research Award, University of Pittsburgh, 1989
American Chemical Society Cope Scholar Award, 1988
Research Career Development Award, National Institutes of Health, 1987-1992
Dreyfus Teacher-Scholar Awardee, 1986-1991
Alfred P. Sloan Foundation Fellow, 1985-1987
Merck Faculty Development Grantee, 1986-1988
Eli Lilly Grantee, 1985-1987
Dreyfus Grant for Newly Appointed Young Faculty in Chemistry, 1981-1986
National Institutes of Health (NCI), Postdoctoral Fellow, University of Wisconsin, 1979-1980
Elon Huntington Hooker Fellow and Sherman Clarke Fellow, University of Rochester, 1977-1979
President, University of Rochester Chemistry Graduate Assoc., 1977-78
Member, American Chemical Society, Pittsburgh Cancer Center, Society for Heterocyclic Chemistry, University of Pittsburgh Drug Discovery Institute

OUTSIDE ACTIVITIES

Advisory Boards

Arkivoc, Honorary Advisory Board, 2006-present
Organic Syntheses, Inc., Member of the Corporation, Editorial Advisory Board, 2006-present
Beilstein J. Org. Chem., Advisory Editorial Board, 2005-present
J. Am. Chem. Soc. Editorial Advisory Board, 2005-2008
Advanced Synthesis & Catalysis, Editorial Advisory Board, 2001-present
Organic Reactions, Editorial Advisory Board, 2001-present
Journal of Combinatorial Chemistry, Editorial Advisory Board, 1999-2005

Tetrahedron Board of Consulting Editors, 1998-present
Tetrahedron International Advisory Board, 1992-1995
Progress in Heterocyclic Chemistry, Editorial Advisory Board, 1999-2001
Chemical Society Perkin: Journals, Editorial Advisory Board, 1992-2003

Meetings Organized

Chair, ISoFT'09 (International Society of Fluorous Technologies), Jackson Hole, Wyoming, 2009
Organizing Committee, 19th International Symposium of Fluorine Chemistry (ISFC), Jackson Hole, Wyoming, 2009
Advisory Committee, 10th International Symposium for Organic Free Radicals, and 3rd Pacific Symposium on Radical Chemistry, Heron Island, Australia, 2008
International Advisory Committee, ISOFT-2 (International Society of Fluorous Technologies) Meeting, Yokohama, Japan, 2007
International Advisory Committee, EUCHEM Free Radical Meeting, Bergen, Norway, 2006
US-Co-organizer, Japan-US Workshop on Sustainable Chemical Synthesis, Honolulu, HI, 2005
Co-organizer, Pacificchem 2005, Symposium on Green Chemistry, Honolulu, HI, 2005
Co-organizer, Pacificchem 2005, Symposium on Organic Free Radicals, Honolulu, HI, 2005
International Advisory Committee, ISOFT-1 (International Society of Fluorous Technologies) Meeting, Bordeaux, France, 2005
Organizer of Symposium on "Recent Advances in Fluorous Chemistry", ACS Meeting, Washington, D.C., 2005
Advisory Committee, 9th International Symposium for Organic for Free Radicals, Corsica, France, 2004
Euchem Meeting on Free Radicals, International Advisory Board, 2002
Co-organizer, ACS Meeting, Symposium on Combinatorial Synthesis of Natural Products, 2002
Co-organizer, Organic Radical Chemistry Symposium, Pacificchem, 2000
International Organizing Committee, "Gomberg 2000: A Century of Radical Chemistry", 2000
Free Radical Gordon Conference: vice chair, 1997; chair, 1999
Organizer, NSF Synthetic Workshop, 1994-1997

Consulting

Fluorous Technologies, Inc., Founder and Chief Scientific Advisor, 2000-present
Consultant, Arno Therapeutics, 2007
Member, University of Pittsburgh Center for Methodology and Library Development (UPCMLD) Board, 2003-2008
Scientific Advisory Board, NeoGenesis, Inc., Boston, MA, 1997-2000
Consultant, Bayer, Inc., 1994-2004
Consultant, Wyeth-Ayerst Pharmaceuticals, 1986-1999
Scientific Advisory Board, CombiChem, Inc., LaJolla, CA, 1997-1999
Consultant, Parke-Davis, 1996-1997
Consultant, Cubist, Inc., 1994-1995
Consultant, FMC, Inc., 1992-1996
Consultant, Lederle Laboratories, 1988-1990

Volunteer Organizations

Council Delegate, Chemistry, Amer. Assoc. for the Advancement of Science (AAAS), 2004-2007
Advisory Board, International Society of Heterocyclic Chemistry, 2002-2004
Chair, ACS Division of Organic Chemistry Graduate Fellowship Program, 1999-2004
ACS Division of Organic Chemistry, Past Chair, 2001, Chair, 2000, Chair-Elect, 1999, Alternate Councilor, 1992-1994, Executive Committee Member, 1990-1992
Advisory Board, International Society for Heterocyclic Chemistry, 1998-1999

Editorial Positions

Co-editor (w J. Gladysz), *Tetrahedron* "Symposium in Print" on Fluorous Chemistry, 2002
Associate Editor, *Organic Syntheses*, 1998-2006
American Co-Editor, *Tetrahedron Lett.*, 1998-2001, American Associate Editor, *Tetrahedron: Asymmetry*, 1993-2001 and *Tetrahedron Lett.*, 1995-1997
Associate Editor, *Organic Reactions*, 1991-2001
Editor, *Advances in Cycloaddition*, JAI Press, 1987-1993

Other

ACS Minicourse on Chemical Discovery, Organizer and Presenter, 2000-2003
Invited Expert Analyst, *Chemtracts: Organic Chemistry*, 1993-present
NIH Study Sections, various years
American Cancer Society Study Section, 1993-1996
Contributor to "Articles Alert" column of *The Scientist*, 1990-1991

PUBLICATIONS

392. S.-H. Ueng, A. Solovyev, X. Yuan, S. J. Geib, L. Fensterbank, E. Lacôte, M. Malacria, M. Newcomb, J. C. Walton, D. P. Curran, *N*-Heterocyclic Carbene Boryl Radicals: A New Class of Boron-Centered Radical, *J. Amer. Chem. Soc.* **2009**, 131, 11256. [doi: 10.1021/ja904103x](https://doi.org/10.1021/ja904103x)
391. S. Werner, S. D. Nielsen, P. Wipf, D. M. Turner, P. G. Chambers, S. J. Geib, D. P. Curran, W. Zhang, Fluorous Parallel Synthesis of a Piperazinedion-Fused Tricyclic Compound Library, *J. Comb. Chem.* **2009**, 11, 452. [doi: 10.1021/cc900003q](https://doi.org/10.1021/cc900003q)
390. Q. Chu, M. M. Brahmī, A. Solovyev, S.-H. Ueng, D. P. Curran, M. Malacria, L. Fensterbank, E. Lacôte, Ionic and Organometallic Reductions with *N*-Heterocyclic Carbene Boranes, Boron Reagents, 2009.
389. V. Gudipati, R. Bajpai, D. P. Curran, Sulfanylation of 1,3- Dithiane Anions by 5-(Alkylsulfanyl)-1-Phenyltertrazoles, *Collect. Czech. Chem. Commun.* **2009**, 74, 771. [doi: 10.1135/cccc2008195](https://doi.org/10.1135/cccc2008195)

388. D. B. Guthrie, K. Damodaran, D. P. Curran, P. Wilson, A. J. Clark, Bond Rotation Dynamics of *N*-Cycloalkenyl-*N*-benzyl α -Haloacetamide Derivatives, *J. Org. Chem.* **2009**, *74*, 4262. doi: [10.1021/jo900491w](https://doi.org/10.1021/jo900491w)
387. A. G. Sancho, X. Wang, B. Sui, D. P. Curran, Comparison of the Relative Reactivities of the Triisopropylsilyl Group With Two Fluorous Analogs, *Adv. Synth. Catal.* **2009**, *351*, 1035. doi: [10.1002/adsc.200900061](https://doi.org/10.1002/adsc.200900061)
386. D. P. Curran and B. Sui, A “Shortcut” Mosher Ester Method to Assign Configurations of Stereocenters in Nearly Symmetric Environments. Fluorous Mixture Synthesis and Structure Assignment of Petrocortyne A, *J. Amer. Chem. Soc.* **2009**, *131*, 5411. doi: [10.1021/ja900849f](https://doi.org/10.1021/ja900849f)
385. F. Zhang, W. Zhang, Y. Zhang, D. P. Curran, G. Liu, Synthesis and Applications of a Light-Fluorous Glycosyl Donor, *J. Org. Chem.* **2009**, *74*, 2594. doi: [10.1021/jo9000993](https://doi.org/10.1021/jo9000993)
384. V. Montanari, M. S. Yu, D. P. Curran, Thieme Chemistry Journal Awardees – Where are They Now? Catalytic Transport with an Amine Carrier in a Fluorous Triphasic Reaction, *Synlett* **2009**, *4*, 554. doi: [10.1055/s-0028-1087916](https://doi.org/10.1055/s-0028-1087916)
383. D. B. Guthrie and D. P. Curran, Asymmetric Radical and Anionic Cyclizations of Axially Chiral Carbamates, *Org. Lett.*, **2009**, *11*, 249. doi: [10.1021/ol802616u](https://doi.org/10.1021/ol802616u)
382. D. P. Curran, Fluorous Mixture Synthesis of Natural Product Stereoisomer Libraries, *Anal. Quimica*, **2008**, Supplement, 10.
381. I. Ryu, H. Matsubara, H. Nakamura, D. P. Curran, Phase-Vanishing Methods Based on Fluorous Phase Screen: A Simple Way for Efficient Execution of Organic Synthesis, *The Chemical Record*, **2008**, *8*, 351. doi: [10.1002/tcr.20161](https://doi.org/10.1002/tcr.20161)
380. D. P. Curran, Synthetic Approaches to Homocamptothecin Antitumor Agents, *C. R. Chimie*, **2008**, *11*, 1574. doi: [10.1016/j.crci.2008.10.002](https://doi.org/10.1016/j.crci.2008.10.002)
379. M. Osipov, Q. Chu, S. J. Geib, D. P. Curran, S. G. Weber, Synthesis of Deep-Cavity Calix[4]arenes as Molecular Recognition Scaffolds, *Beilstein J. Org. Chem.* **2008**, *4*:36. doi: [10.3762/bjoc.4.36](https://doi.org/10.3762/bjoc.4.36)
378. J. L. Eiseman, L. Bai, W.-H. Jung, G. Moura-Letts, B. W. Day, D. P. Curran, Improved Synthesis of 6-*epi*-Dictyostatin and Antitumor Efficacy in Mice Bearing MDA-MB231 Human Breast Cancer Xenografts, *J. Med. Chem.* **2008**, *51*, 6650. doi: [10.1021/jm800979v](https://doi.org/10.1021/jm800979v)
377. D. P. Curran, Fluorous Tags Unstick Messy Chemical Biology Problems, *Science*, **2008**, *321*, 1645. doi: [10.1126/science.1158721](https://doi.org/10.1126/science.1158721)
376. D. P. Curran, Fluorous Chemistry in Pittsburgh: 1996-2008, *J. Fluorine Chem.*, **2008**, *129*, 898. doi: [10.1016/j.jfluchem.2008.05.025](https://doi.org/10.1016/j.jfluchem.2008.05.025)

375. S.-H. Ueng, M. M. Brahmi, E. Derat, L. Fensterbank, E. Lacôte, M. Malacria, D. P. Curran, Complexes of Borane and N-Heterocyclic Carbenes: A New Class of Radical Hydrogen Atom Donor, *J. Am. Chem. Soc.* **2008**, *130*, 10082. doi: [10.1021/ja804150k](https://doi.org/10.1021/ja804150k)
374. Q. Chu, C. Henry, and D. P. Curran, Second-Generation Tags for Fluorous Chemistry Exemplified with a New Fluorous Mitsunobu Reagent, *Org. Lett.* **2008**, *10*, 2453. doi: [10.1021/ol800750q](https://doi.org/10.1021/ol800750q)
373. D. P. Curran, D. B. Guthrie, and S. J. Geib, How Do Analogous α -Chloroenamides and α -Iodoenamides Give Different Product Distributions in 5-*Endo* Radical Cyclizations? *J. Amer. Chem. Soc.* **2008**, *130*, 8437. doi: [10.1021/ja8012962](https://doi.org/10.1021/ja8012962)
372. W. C. Zamboni, L. L. Jung, S. Strychor, E. Joseph, B. A. Zamboni, S. A. Fettesman, B. J. Sidone, T. G. Burke, D. P. Curran, and J. L. Eiseman, Plasma and Tissue Disposition of Non-liposomal DB-67 and liposomal DB-67 in C.B-17 SCID Mice, *Invest. New Drugs*, **2008**, *26*, 399. doi:[10.1007/s10637-007-9109-9](https://doi.org/10.1007/s10637-007-9109-9)
371. Q. Chu, M. S. Yu, and D. P. Curran, CBS Reductions with a Fluorous Prolinol Immobilized in a Hydrofluoroether Solvent, *Org. Lett.* **2008**, *10*, 749. doi: [10.1021/ol702778v](https://doi.org/10.1021/ol702778v)
370. B. S. Raccor, A. Vogt, R. P. Sikorski, C. Madiraju, R. Balanchandran, K. Montgomery, Y. Shin, Y. Fukui, W.-H. Jung, D. P. Curran, and B. W. Day, Cell-Based and Biochemical Structure-Activity Analyses Analogs of the Microtubule Stabilizer Dictyostatin, *Mol. Pharmacol.* **2008**, *73*, 718. doi:[10.1124/mol.107.042598](https://doi.org/10.1124/mol.107.042598)
369. W.-H. Jung, S. Guyenne, C. Riesco-Fagundo, J. Mancuso, S. Nakamura, and D. P. Curran, Confirmation of the Stereostructure of (+)-Cytostatin by Fluorous Mixture Synthesis of Four Candidate Stereoisomers, *Angew. Chem. Int. Ed.* **2008**, *47*, 1130. doi:[10.1002/anie.200704893](https://doi.org/10.1002/anie.200704893)
368. T. Tanoi, W. Zhang, D. P. Curran, and K. Mikami, Fluorous "Racemic" Mixture Synthesis: Polysaccharide-Based Chiral Columns for Simultaneous Demix and Enantioseparation of Racemic Fluorous Tagged Compounds, *Chirality* **2008**, *20*, 597. doi:[10.1002/chir.20487](https://doi.org/10.1002/chir.20487)
367. T. Cohen, H. Gibney, R. Ivanov, E. A.-H. Yeh, I. Marek, and D. P. Curran, Intramolecular Carbozincation of Unactivated Alkenes Occurs through a Zinc Radical Transfer Mechanism, *J. Am. Chem. Soc.* **2007**, *129*, 15405. doi: [10.1021/ja076554k](https://doi.org/10.1021/ja076554k)
366. C. del Pozo, A. I. Keller, T. Nagashima, and D. P. Curran, Amide Bond Formation with a New Fluorous Carbodiimide: Separation by Reverse Fluorous Solid-Phase Extraction, *Org. Lett.* **2007**, *9*, 4167.
365. R. Bajpai, F. Yang and D. P. Curran, On the Structure of the Phytophthora α 1 Mating Hormone: Synthesis and Comparison of Four Candidate Stereoisomers, *Tetrahedron Lett.* **2007**, *48*, 7965.
363. W.-H. Jung, C. Harrison, Y. Shin, J.-H. Fournier, R. Balachandran, B. S. Raccor, R. P. Sikorski, A. Vogt, D. P. Curran, and B. W. Day, Total Synthesis and Biological Evaluation of C16 Analogs of (-)-Dictyostatin, *J. Med. Chem.* **2007**, *50*, 2951.

362. Q. Chu, M. S. Yu, and D. P. Curran, New Fluorous/organic Biphasic Systems Achieved by Solvent Tuning, *Tetrahedron* **2007**, *63*, 9890.
361. Y. Shin, J.-H. Fournier, A. M. Brückner, C. Madiraju, R. Balachandran, B. S. Raccor, M. C. Edler, E. Hamel, R. P. Sikorski, A. Vogt, B. W. Day, and D. P. Curran, Synthesis and Biological Evaluation of (–)-Dictyostatin and Stereoisomers, *Tetrahedron* **2007**, *63*, 8537.
360. X. Wang, S. G. Nelson, D. P. Curran, The Azido Acid Approach to β -Peptides: Parallel Synthesis of a Tri- β -Peptide Library by Fluorous Tagging, *Tetrahedron* **2007**, *63*, 6141.
359. A. J. B. Lapierre, S. J. Geib, D. P. Curran, Low-Temperature Heck Reactions of Axially Chiral *o*-Iodoacrylanilides Occur with Chirality Transfer: Implications for Catalytic Asymmetric Heck Reactions, *J. Am. Chem. Soc.* **2007**, *129*, 494-495.
358. G. Moura-Letts, D. P. Curran, Selective Synthesis of (2*Z*,4*E*)-Dienyl Esters by Ene-Diene Cross Metathesis, *Org. Lett.* **2007**, *9*, 5-8.
357. Q. Chu, W. Zhang, and D. P. Curran, A Recyclable Fluorous Organocatalyst for Diels–Alder Reactions, *Tetrahedron Lett.* **2006**, *47*, 9287.
356. E. Hamel, B. W. Day, J. H. Miller, M. K. Jung, P. T. Northcote, A. K. Ghosh, D. P. Curran, M. Cushman, K. C. Nicolaou, I. Paterson, and E. J. Sorensen, Synergistic Effects of Peloruside A and Laulimalide with Taxoid Site Drugs, but Not with Each Other, on Tubulin Assembly, *Mol. Pharmacol.* **2006**, *70*, 1555.
355. D. P. Curran and A. I. Keller, Radical Additions of Aryl Iodides to Arenes are Facilitated by Oxidative Rearomatization with Dioxygen, *J. Am. Chem. Soc.* **2006**, *128*, 13706.
354. W. Zhang and D. P. Curran, Synthetic Applications of Fluorous Solid Phase Extraction (F-SPE), *Tetrahedron* **2006**, *62*, 11837.
353. F. Yang, J. J. Newsome, and D. P. Curran, Structure Assignment of Lagunapyrone B by Fluorous Mixture Synthesis of Four Candidate Stereoisomers, *J. Am. Chem. Soc.* **2006**, *128*, 14200.
352. D. P. Curran, R. Bajpai, and E. Sanger, Purification of Fluorous Mitsunobu Reactions by Liquid-Liquid Extraction, *Adv. Synth. Catal.* **2006**, *348*, 1621.
351. R. S. Tangirala, S. Antony, K. Agama, Y. Pommier, B. D. Anderson, R. Bevins, and D. P. Curran, Synthesis and Biological Assays of E-Ring Analogs of Camptothecin and Homocamptothecin, *Bioorg. Med. Chem.* **2006**, *14*, 6202.
350. D. P. Curran, Q. Zhang, H. Lu, and V. Gudipati, On the Proof and Disproof of Natural Product Stereostructures: Characterization and Analysis of a Twenty-Eight Member Stereoisomer Library of Murisolins and their Mosher Ester Derivatives, *J. Am. Chem. Soc.* **2006**, *128*, 9943.
349. D. P. Curran, Q. Zhang, C. Richard, H. Lu, V. Gudipati and C. Wilcox, Total Synthesis of a Twenty-Eight Member Stereoisomer Library of Murisolins, *J. Am. Chem. Soc.* **2006**, *128*, 9561.
348. D. P. Curran and C. Ogoe, A New Fluorous Methoxymethyl (^FMOM) Protecting Group for Alcohols, *QSAR & Comb. Sci.* **2006**, *25*, 732.

347. M. Matsugi, K. Yamanaka, I. Inomata, N. Takekoshi, M. Hasegawa, and D. P. Curran, Synthesis of Fluorous-FMOC Reagents Directed toward Fluorous Mixture Synthesis for Peptides, *QSAR Comb. Sci.* **2006**, *25*, 713.
346. D. P. Curran and T. R. Turner, Do α -Acyloxy and α -Alkoxy-carbonyloxy Radicals Fragment to Form Acyl and Alkoxy-carbonyl Radicals? *Beilstein J. Org. Chem.* **2006**, *2*:10.
345. D. P. Curran, K. Mikami, and V. A. Soloshonok, Current Frontiers of Fluoroorganic Chemistry and Recent Advances in Fluorous Chemistry, *J. Fluorine Chem.*, **2006**, *127*, 454.
344. V. Gudipati, D. P. Curran, and C. S. Wilcox, Solution-Phase Parallel Synthesis with Oligoethylene Glycol Sorting Tags. Preparation of All Four Stereoisomers of the Hydroxybutenolide Fragment of Murisolin and Related Acetogenins, *J. Org. Chem.* **2006**, *71*, 3599.
343. Y. Fukui, A. M. Brückner, Y. Shin, R. Balachandran, B. W. Day, and D. P. Curran, Fluorous Mixture Synthesis of (-)-Dictyostatin and Three Stereoisomers, *Org. Lett.* **2006**, *8*, 301.
342. W. Zhang, Y. Lu, C. H.-T. Chen, D. P. Curran, and S. Geib, Fluorous Synthesis of Hydantoin-, Piperazinedione-, and Benzodiazepinedione-Fused Tricyclic and Tetracyclic Ring Systems, *Eur. J. Org. Chem.* **2006**, *9*, 2055.
341. G. Zhu, F. Yang, R. Balachandran, P. Höök, R. B. Vallee, D. P. Curran, and B. W. Day, Synthesis and Biological Evaluation of Puralin and Analogues as Cytoplasmic Dynein Heavy-Chain Inhibitors, *J. Med. Chem.* **2006**, *49*, 2063.
340. D. P. Curran, G. Moura-Letts, and M. Pohlman, Solution-phase Mixture Synthesis with Fluorous Tagging *en route*: Total Synthesis of an Eight-Member Stereoisomer Library of Passifloricins, *Angew. Chem. Int. Ed.* **2006**, *45*, 2423.
339. D. P. Curran, Organic Synthesis with Light-Fluorous Reagents, Reactants, Catalysts, and Scavengers, *Aldrichimica Acta*, **2006**, *39*, 3.
338. C. Chatgililoglu, J. Cossy, D. P. Curran, K. B. Sharpless, and H. Yamamoto, In Memoriam to Anne Ghosez-Giese, *Synlett* **2005**, 2835.
337. D. P. Curran and M. Matsugi, Light Fluorous Chemistry, In: "Fluorous Chemistry", CMC: Tokyo, **2005**, Ch 3, pp 43-66 (in Japanese).
336. I. Ryu, H. Matsubara, C. Emnet, J. A. Gladysz, S. Takeuchi, Y. Nakamura and D. P. Curran, Fluorous Solvents, in *Green Reaction Media in Organic Synthesis* (K. Mikami, Ed.), Blackwell: Oxford, **2005**, pp. 59–124.
335. S. Dandapani, M. Jeske and D. P. Curran, Synthesis of All 16 Stereoisomers of Pinesaw Fly Sex Pheromones – Tools and Tactics for Solving Problems in Fluorous Mixture Synthesis, *J. Org. Chem.* **2005**, *70*, 9447.
334. R. Tangirala, S. Antony, K. Agama, Y. Pommier, and D. P. Curran, Total Synthesis of Luotonin and a Small Library of AB-Ring Substituted Analogues by Cascade Radical Annulation of Isonitriles, *Synlett*, **2005**, *18*, 2843.
333. C. S. Wilcox, V. Gudipati, H. Lu, S. Turkyilmaz, and D. P. Curran, Solution-Phase Mixture Synthesis with Double-Separation Tagging: Double Demixing of a Single Mixture Provides a Stereoisomer Library of 16 Individual Murisolins, *Angew. Chem. Int. Ed.* **2005**, *44*, 6938.

332. M. Petit, A. J. B. Lapiere, D. P. Curran, Relaying Asymmetry of Transient Atropisomers of *o*-Iodoanilides by Radical Cyclizations, *J. Am. Chem. Soc.* **2005**, *127*, 14994.
331. M. S. Yu, D. P. Curran, T. Nagashima, Increasing Fluorous Partition Coefficients by Solvent Tuning, *Org. Lett.* **2005**, *7*, 3677.
330. C. Madiraju, M. C. Edler, E. Hamel, B. S. Raccor, R. Balachandran, G. Zhu, K. A. Giuliano, A. Vogt, Y. Shin, J.-H. Fournier, Y. Fukui, A. M. Brückner, D. P. Curran, B. Day, Tubulin Assembly, Taxoid Site Binding, and Cellular Effects of the Microtubule-Stabilizing Agent Dictyostatin, *Biochemistry* **2005**, *44*, 15053.
329. K. A. Guiliano, W. S. Cheung, D. P. Curran, B. W. Day, A. J. Kassick, J. S. Lazo, S. G. Nelson, Y. Shin, and D. L. Taylor, Systems Cell Biology Knowledge Created from High Content Screening, *Assay and Drug Development Technologies* **2005**, *3*, 501.
328. Q. Zhang and D. P. Curran, Quasienantiomers and Quasiracemates: New Tools for Identification, Analysis, Separation and Synthesis of Enantiomers, *Chem. Eur. J.* **2005**, *11*, 4866.
327. R. Tangirala, R. Dixon, D. Yang, A. Ambrus, S. Antony, K. Agama, Y. Pommier and D. P. Curran, Total and Semisynthesis and In Vitro Studies of Both Enantiomers of 20-Fluorocampothecin, *Bioorg. Med. Chem. Lett.* **2005**, *15*, 4736.
326. D. P. Curran, X. Wang, and Q. Zhang, Light, Medium, and Heavy Fluorous Triarylphosphines Exhibit Comparable Reactivities to Triphenylphosphine in Typical Reactions of Triarylphosphines, *J. Org. Chem.* **2005**, *70*, 3716.
325. J. Tripp, C. H. Schiesser, and D. P. Curran, Stereochemistry of Hexenyl Radical Cyclizations with *tert*-Butyl and Related Large Groups: Substituent and Temperature Effects, *J. Am. Chem. Soc.* **2005**, *127*, 5518.
324. K. Brummond, D. P. Curran, B. Mitasev, and S. Fischer, Heterocyclic α -Alkylidene Cyclopentenones Obtained via a Pauson-Khand Reaction of Amino Acid Derived Allenynes. A Scope and Limitation Study Directed toward the Preparation of a Tricyclic Pyrrole Library, *J. Org. Chem.* **2005**, *70*, 1745.
323. S. Manku and D. P. Curran, Fluorous Mixture Synthesis of 4-Alkylidene Cyclopentenones via a Rhodium-Catalyzed [2+2+2+1] Cycloaddition of Alkynyl Allenes, *J. Org. Chem.* **2005**, *7*, 63.
322. Y. Shin, C. Madiraju, R. Balachandran, B. S. Raccor, G. Zhu, M. C. Edler, E. Hamel, B. W. Day, and D. P. Curran, Synthesis and Biological Evaluation of (-)-16-Normethyldictyostatin: a Potent Analog of (-)-Dictyostatin, *Org. Lett.* **2005**, *7*, 2873.
321. M. Matsugi and D. P. Curran, Synthesis, Reaction, and Recycle of Light Fluorous Grubbs-Hoveyda Catalysts for Alkene Metathesis, *J. Org. Chem.* **2005**, *70*, 1636.
320. C. O. Kangani, A. M. Brückner and Dennis P. Curran, Ring-Closing Metathesis Approach to Dictyostatin, *Org. Lett.* **2005**, *7*, 379.
319. F. González-López de Turiso and D. P. Curran, Radical Cyclization Approach to Spirocyclohexadienones, *Org. Lett.* **2005**, *7*, 151.
318. S. Dandapani and D. P. Curran, Second Generation Fluorous DEAD Reagents Have Expanded Scope in the Mitsunobu Reaction and Retain Convenient Separation Features, *J. Org. Chem.* **2004**, *69*, 8751.

317. G. S. Laco, W. Du, G. Kohlhagen, J. M. Sayer, D. M. Jerina, T. G. Burke, D. P. Curran, and Y. Pommier, Analysis of Human Topoisomerase I Inhibition and Interaction with the Cleavage Site +1 Deoxyguanosine, via in vitro Experiments and Molecular Modeling Studies, *Bioorg. Med. Chem.* **2004**, *12*, 5225.
316. S. Dandapani, M. Jeske, D. P. Curran, Stereoisomer Libraries: Total Synthesis of All 16 Stereoisomers of the Pine Sawfly Sex Pheromone by a Fluorous Mixture-Synthesis Approach, *Proc. Nat. Acad. Sci.* **2004**, *101*, 12008.
315. K. Mikami, H. Matsuzawa, S. Tekeuchi, Y. Nakamura, and D. P. Curran, β -Cyclodextrin Columns for Separation of Fluorous and non-Fluorous Compounds: How to Use β -Cyclodextrin Columns in Fluorous Mixture Synthesis and Racemic Synthesis, *Synlett* **2004**, *15*, 2713.
314. S. Dandapani, J. J. Newsome, and D. P. Curran, Separation Tagging with Cyclodextrin-Binding Groups: Mitsunobu Reactions with bis-(2-(1-Adamantyl)Ethyl) Axodicarboxylate (BadEAD) and bis-1(1-Adamantylmethyl) Azodicarboxylate (BadMAD), *Tetrahedron Lett.* **2004**, *45*, 6653.
313. M. Matsugi and D. P. Curran, Reverse Fluorous Solid-Phase Extraction: A New Technique for Rapid Separation of Fluorous Compounds, *Org. Lett.* **2004**, *6*, 2717.
312. D. P. Curran, S. Dandapani, S. Werner, and M. Matsugi, Fluorous Columns are Superior to Cyclodextrin Columns for Demixing in Fluorous Mixture Synthesis: When and Why to Use Fluorous Silica Gel, *Synlett* **2004**, *9*, 1545.
311. M. Petit, S. J. Geib, and D. P. Curran, Asymmetric Reactions of Axially Chiral Amides: Use of Removable *ortho*-Substituents in Radical Cyclizations of *o*-Iodoacrylanilides and *N*-allyl-*N*-*o*-iodoacrylamides, *Tetrahedron* **2004**, *60*, 7543.
310. Y. Shin, J.-H. Fournier, Y. Fukui, A. M. Brückner, D. P. Curran, Total Synthesis of Dictyostatin 1 Provides its Relative and Absolute Configuration. *Angew. Chem. Int. Ed.* **2004**, *43*, 4634.
309. D. P. Curran, K. Fischer, and G. Moura-Letts, A Soluble Fluorous Palladium Complex that Promotes Heck Reactions and Can Be Recovered and Reused, *Synlett* **2004**, *8*, 1379.
308. S. Dandapani and D. P. Curran, Separation-Friendly Mitsunobu Reactions: A Microcosm of Recent Developments in Separation Strategies, *Chem. Eur. J.* **2004**, *10*, 3130.
307. A. Rivkin, F. González-López de Turiso, T. Nagashima, and D. P. Curran, Radical and Palladium-Catalyzed Cyclizations to Cyclobutenes: An Entry to the BCD Ring System of Penitrem D, *J. Org. Chem.* **2004**, *69*, 3719.
306. I. Ryu, H. Matsubara, and D. P. Curran, 1-Hydroxymethyladamantane. Radical Hydroxymethylation with a Fluorous Tin Hydride. In: *The Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 11.47, pp 470-471.
305. I. Ryu, H. Matsubara, H. Nakamura, and D. P. Curran, *trans*-1,2-Dibromocyclohexane. The Phase Vanishing Bromination with FC-72 as a Screen Phase. In: *The Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 11.46, pp 468-470.
304. D. P. Curran, and Sivaraman Dandapani, 4-Fluorobenzyl 4-(4-Nitrophenyl)butyrate. The Mitsunobu Reactions with a Fluorous Phosphine and a Fluorous Dead Reagent. In: *The*

- Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 11.32, pp 436-437.
303. I. T. Horváth, D. P. Curran, and J. A. Gladysz, Fluorous Chemistry: Scope and Definition. In: *The Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 1, pp 1-4.
303. D. P. Curran, Light Fluorous Chemistry – A User’s Guide. In: *The Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 5, pp 128-155.
301. D. P. Curran, Separations with Fluorous Silica Gel and Related Materials. In: *The Handbook of Fluorous Chemistry*, (J. A. Gladysz, D. P. Curran, and I. T. Horváth, Eds.); Wiley-VCH, Weinheim, **2004**, Ch 7, pp 101-127.
300. D. P. Curran, C. H.-T. Chen, S. J. Geib, and A. J. B. Lapierre, Asymmetric Radical Cyclization Reactions of Axially Chiral *N*-allyl-*o*-iodoanilides to Form Enantioenriched *N*-acyl Dihydroindoles, *Tetrahedron* **2004**, *60*, 4413.
299. D. P. Curran and S. Werner, Extractive Phase Vanishing Reactions with Dichloromethane, Perfluorohexanes, and Dibromoethane: Slow Addition in a Test Tube, *Org. Lett.* **2004**, *6*, 1021.
298. Q. Zhang, H. Lu, C. Richard, and D. P. Curran, Fluorous Mixture Synthesis of Stereoisomer Libraries: Total Syntheses of (+)-Murisolin and Fifteen Diastereoisomers, *J. Am. Chem. Soc.* **2004**, *126*, 36.
297. W. Zamboni, T. Burke, D. P. Curran, M. Egorin, J. Eiseman, E. Joseph, L. Jung, S. Strychor, Plasma and Tissue Disposition of DB-67 Non-Liposomal (NL) and Bilayer Liposomal (BL) in SCID mice, *Proc. Amer. Assoc. Cancer Res.* **2003**, *44*, 350.
296. S. Werner and D. P. Curran, Fluorous Dienophiles Are Powerful Diene Scavengers in Diels-Alder Reactions, *Org. Lett.* **2003**, *5*, 3293.
295. G. Gualtieri, S. J. Geib, D. P. Curran, A New Class of Chiral Organogermanes Derived from C-2-Symmetric Dithiols: Synthesis, Characterization and Stereoselective Free Radical Reactions, *J. Org. Chem.* **2003**, *68*, 5013.
294. D. P. Curran, M. Amatore, D. Guthrie, M. Campbell, E. Go, and Z. Luo, Synthesis and Reactions of Fluorous Carbobenzyloxy (^FCbz) Derivatives of α -Amino Acids, *J. Org. Chem.* **2003**, *68*, 4643.
293. A. E. Gabarda and D. P. Curran, Solution-Phase Parallel Synthesis of 115 Homosilatecan Analogues, *J. Comb. Chem.* **2003**, *5*, 617.
292. W. Du and D. P. Curran, Cascade 4+1 Radical Annulations of 2,6-Disubstituted Phenyl Isonitriles with *N*-Propargyl-6-Iodopyridones: Scope, Mechanism and Regioselective Synthesis of 7,9-Disubstituted Camptothecin Analogs, *Synlett* **2003**, *9*, 1299.
291. D. P. Curran and N. Fairweather, Quantitating the Effect of an Ortho Substituent on Cyclization and Intramolecular Hydrogen-Transfer Reactions of Aryl Radicals, *J. Org. Chem.* **2003**, *68*, 2972.
290. W. Du and D. P. Curran, Synthesis of Carbocyclic and Heterocyclic Fused-Quinolines by Cascade Radical Annulations of Unsaturated *N*-Aryl Thiocarbamates, Thioamides and Thioureas, *Org. Lett.* **2003**, *5*, 1765.

289. A. Rivkin, T. Nagashima, and D. P. Curran, Samarium(II) Iodide Mediated Radical/Polar Crossover Reactions of Cyclobutenes. An Efficient Approach to the BCD Ring System of the Penitremes, *Org. Lett.* **2003**, *5*, 419.
288. K. S. A. Vallin, Q. Zhang, M. Larhed, D. P. Curran, and A. Hallberg, A New Regioselective Heck-Vinylation with Enamides. Synthesis and Investigation of Fluorous-Tagged Bidentate Ligands for Fast Separation, *J. Org. Chem.* **2003**, *68*, 6639.
287. D. P. Curran, Q. Zhang, Microwave Heating Effects Rapid and Selective Decarboalkoxylation of Mono-Alkylated Malonates and beta-Ketoesters, *Adv. Synth. Catal.* **2003**, *345*, 329.
286. H. Nakamura, T. Usui, H. Kuroda, I. Ryu, H. Matsubara, S. Yasuda, and D. P. Curran, A Fluorous Solvent as a New Phase-Screen Medium between Reagents and Reactants in the Bromination and Chlorination of Alcohols, *Org. Lett.* **2003**, *5*, 1167.
285. J. Terauchi and D. P. Curran, *N*-Allylation of Anilides with Chiral Palladium Catalysts: The First Catalytic Asymmetric Synthesis of Axially Chiral Anilides, *Tetrahedron: Asymmetry* **2003**, *14*, 587.
284. K. Yabu, S. Masumoto, M. Kanai, W. Du, D. P. Curran, and M. Shibasaki, Catalytic Enantioselective Synthesis of (2*S*)-Camptothecin Intermediates Using Cyanosilylation of Ketones Promoted by D-Glucose-Derived Lanthanide Catalyst, *Heterocycles* **2003**, *59*, 369.
283. D. P. Curran, A Bird's Eye View of Fluorous Reaction and Separation Techniques, *l'Actualite Chimique* **2003**, *4-5*, 67.
282. N. Choy, Y. Shin, P. Q. Nguyen, D. P. Curran, R. Balachandran, C. Madiraju, and B. W. Day, Simplified Discodermolide Analogs: Synthesis and Biological Evaluation of 4-*epi*-7-Dehydroxy-14,16-didemethyl-(+)-discodermolides as Microtubule-Stabilizing Agents, *J. Med. Chem.* **2003**, *46*, 2846.
281. J. M. Minguetz, S.-Y. Kim, K. A. Giuliano, R. Balachandran, C. Madiraju, B. W. Day, and D. P. Curran, Synthesis and Biological Assessment of Simplified Analogs of the Potent Microtubule Stabilizer (+)-Discodermolide, *Bioorg. Med. Chem.* **2003**, *11*, 3335.
280. W. Du, B. Kaskar, P. Blumbergs, P.-K. Subramanian, and D. P. Curran, Semisynthesis of DB-67 and Other Silatecans from Camptothecin by Thiol-Promoted Addition of Silyl Radicals, *Bioorg. Med. Chem.* **2003**, *11*, 451.
279. Y. Shin, N. Choy, T. R. Turner, R. Balachandran, C. Madiraju, B. W. Day, and D. P. Curran, Discodermolide/Dictyostatin Hybrids: Synthesis and Biological Evaluation, *Org. Lett.* **2002**, *4*, 4443.
278. A. E. Gabarda, W. Du, T. Isarno, R. S. Tangirala, and D. P. Curran, Asymmetric Total Synthesis of (2*R*)-Homocamptothecin, Substituted Homocamptothecins and Homosilatecans, *Tetrahedron* **2002**, *58*, 6329.
277. I. Ryu, H. Matsubara, S. Yasuda, H. Nakamura, and D. P. Curran, Phase-Vanishing Reactions that Use Fluorous Media as a Phase Screen, Facile, Controlled Bromination of Alkenes by Dibromine and Dealkylation of Aromatic Ethers by Boron Tribromide, *J. Am. Chem. Soc.* **2002**, *124*, 12946.
276. X. Liu, B. C. Lynn, J. Zhang, L. Song, D. Bom, W. Du, D. P. Curran, and T. G. Burke, A Versatile Prodrug Approach for Liposomal Core-Loading of Water-Insoluble Camptothecin Anticancer Drugs, *J. Am. Chem. Soc.* **2002**, *124*, 7650.

275. D. P. Curran and W. Du, Palladium Promoted Cascade Reactions of Isonitriles and 6-Iodo-*N*-propargylpyridones: Synthesis of Polycyclic Quinolines Including Mappicines, Camptothecins and Homocamptothecins, *Org. Lett.* **2002**, *4*, 3215.
274. Z. Luo, S. M. Swaleh, F. Theil, and D. P. Curran, Resolution of 1-(2-Naphthyl)ethanol by a Combination of an Enzyme-Catalyzed Kinetic Resolution with a Fluorous Triphasic Separative Reaction, *Org. Lett.* **2002**, *4*, 2585.
273. Y. Nakamura, S. Takeuchi, K. Okumura, Y. Ohgo, and D. P. Curran, Recyclable Fluorous Chiral Ligands and Catalysts: Asymmetric Addition of Diethylzinc to Aromatic Aldehydes Catalyzed by Fluorous BINOL-Ti Complexes, *Tetrahedron* **2002**, *58*, 3963.
272. J. M. Minguez, K. A. Giuliano, R. Balachandran, C. Madiraju, D. P. Curran, and B. W. Day, Synthesis and High Content Cell-based Profiling of Simplified Analogues of the Microtubule Stabilizer (+)-Discodermolide, *Mol. Cancer Ther.* **2002**, *1*, 1305.
271. J. Gladysz and D. P. Curran, Fluorous Chemistry: From Biphasic Catalysis to a Parallel Chemical Universe and Beyond, *Tetrahedron* **2002**, *58*, 3823.
270. W. Zhang, Z. Luo, C. H.-T. Chen, and D. P. Curran, Solution-Phase Preparation of a 560-Compound Library of Individual Pure Mappicine Analogs by Fluorous Mixture Synthesis, *J. Am. Chem. Soc.* **2002**, *124*, 10443.
269. D. P. Curran, F. Yang, and J.-H. Cheong, Relative Rates and Approximate Rate Constants for Inter- and Intramolecular Hydrogen Transfer Reactions of Polymer-Bound Radicals, *J. Am. Chem. Soc.* **2002**, *124*, 14993.
268. K. Yabu, S. Masumoto, M. Kanai, D. P. Curran, and M. Shibasaki, Studies Toward Practical Synthesis of (20*S*)-Camptothecin Family Through Catalytic Enantioselective Cyanosilylation of Ketones: Improved Catalyst Efficiency by Ligand-Tuning, *Tetrahedron Lett.* **2002**, *43*, 2923.
267. D. P. Curran and T. Furukawa, Simultaneous Preparation of Four Truncated Analogues of Discodermolide by Fluorous Mixture Synthesis, *Org. Lett.* **2002**, *4*, 2233.
266. D. P. Curran, Fluorous Techniques for Combinatorial and Parallel Synthesis, *Pharmaceutical News* **2002**, *9*, 179.
265. Q. Zhang, A. Rivkin, and D. P. Curran, Quasiracemic Synthesis: Concepts and Implementation with a Fluorous Tagging Strategy to Make Both Enantiomers of Pyridovericin and Mappicine, *J. Am. Chem. Soc.* **2002**, *124*, 5774.
264. K. Stalinski and D. P. Curran, Stereocontrol at the Steady State in Radical Cyclizations of Acyclic Dihalides, *J. Org. Chem.* **2002**, *67*, 2982.
263. S. Dandapani and D. P. Curran, Fluorous Mitsunobu Reagents and Reactions, *Tetrahedron* **2002**, *58*, 3855.
262. W. Zhang, D. P. Curran, and C. H.-T. Chen, Use of Fluorous Silica Gel to Separate Fluorous Thiol Quenching Derivatives in Solution Phase Parallel Synthesis, *Tetrahedron* **2002**, *58*, 3871.
261. D. P. Curran, Fluorous Methods for Synthesis and Separation of Organic Molecules: From Separating Mixtures to Making Mixtures. In: *Peptides: The Wave of the Future*, (M. Lebl and R. A. Houghten, Eds.), American Peptide Society, **2001**, 17.

260. A. Y. Chen, T. Burke, D. P. Curran, L. Li, and M. Rothenberg, Silatecan DB-67 Induces DNA Topoisomerase I-mediated Radiosensitization in Human Glioma Cells, *Proc. Amer. Assoc. Cancer Res.* **2001**, *42*, 872.
259. D. P. Curran and Z. Luo, Fluorous Techniques for the Synthesis and Separation of Organic Molecules, *Green Chem.* **2001**, *3*, G3-G7.
258. H. Nakamura, B. Linclau, and D. P. Curran, Fluorous Triphasic Reactions: Transportative Deprotection of Fluorous Silyl Ethers with Concomitant Purification, *J. Am. Chem. Soc.* **2001**, *123*, 10119.
257. K. Yabu, S. Masumoto, S. Yamasaki, Y. Hamashima, M. Kanai, W. Du, D. P. Curran, and M. Shibasaki, Switching Enantiofacial Selectivities Using One Chiral Source: Catalytic Enantioselective Synthesis of the Key Intermediate for (20*S*) – Camptothecin Family by (*S*)-Selective Cyanosilylation of Ketones, *J. Am. Chem. Soc.* **2001**, *123*, 9908.
256. D. P. Curran and Y. Oderaotoshi, Thiol Additions to Acrylates by Fluorous Mixture Synthesis: Relative Control of Elution Order in Demixing by the Fluorous Tag and the Thiol Substituent, *Tetrahedron* **2001**, *47*, 5243.
255. W. Du, D. P. Curran, R. L. Bevins, S. G. Zimmer, J. Zhang, and T. G. Burke, Synthesis and Evaluation of a Novel E-Ring Modified δ -Hydroxy Keto Ether Analog of Camptothecin, *Bioorg. Med. Chem.* **2001**, *10*, 103.
254. D. Bom, D. P. Curran, J. Zhang, R. Bevins, S. G. Zimmer, S. Kruszewski, J. N. Howe, A. Bingcang, L. J. Latus, and T. G. Burke, The Highly Lipophilic DNA Topoisomerase I Inhibitor DB-67 Displays Elevated Lactone Levels in Human Blood and Potent Anticancer Activity, *J. Controlled Release* **2001**, *74*, 325.
253. D. P. Curran, Fluorous Reverse Phase Silica Gel. A New Tool for Preparative Separations in Synthetic Organic and Organofluorine Chemistry, *Synlett* **2001**, 1488.
252. D. P. Curran and G. Gualtieri, Synthesis and Asymmetric Hydrogermylation Reactions of Dithio germanium Hydrides Derived from C2-Symmetric Dithiols, *Synlett* **2001**, 1038.
251. A. Ates and D. P. Curran, Synthesis of Enantioenriched Axially Chiral Anilides from Atropoisomerically Enriched Tartarate Ortho-Anilides, *J. Am. Chem. Soc.* **2001**, *123*, 5130.
250. Z. Luo, Q. Zhang, Y. Oderaotoshi, and D. P. Curran, Fluorous Mixture Synthesis: A Fluorous-Tagging Strategy for the Synthesis and Separation of Mixtures of Organic Compounds, *Science* **2001**, *291*, 1766.
249. D. P. Curran, Fluorous Methods for Synthesis and Separation of Organic Molecules, *Pure Appl. Chem.* **2000**, *72*, 1649.
248. C. Shi, Z. Huang, E. J. Beckman, R. M. Enick, S.-Y. Kim, and D. P. Curran, Semi-Fluorinated Trialkyltin Fluorides and Fluorinated Telechelic Ionomers as Viscosity-Enhancing Agents for Carbon Dioxide, *Ind. Eng. Chem. Res.* **2001**, *40*, 908.
247. D. P. Curran, S. Hadida, A. Studer, M. He, S.-Y. Kim, Z. Luo, M. Larhed, A. Hallberg, and B. Linclau, Experimental Techniques in Fluorous Synthesis: A User's Guide. In: *Combinatorial Chemistry: A Practical Approach*, (H. Fenniri, Ed.); Oxford Univ. Press, Oxford, **2000**; Vol. 2, 327.
246. B. Bucher and D. P. Curran, Selective Sulfonylation of 1,2-Diols and Derivatives Catalyzed by a Recoverable Fluorous Tin Oxide, *Tetrahedron Lett.* **2000**, *41*, 9617.

245. Z. Luo, J. Williams, R. Read, and D. P. Curran, Fluorous Boc (^FBoc) Carbamates: New Amine Protecting Groups for Use in Fluorous Synthesis, *J. Org. Chem.* **2001**, *66*, 4261.
244. V. N. Fishman, B. Linclau, D. P. Curran, and K. V. Somayajula, Tris (Perfluoroalkylethyl)silyl Alkyl Amines as Calibration Standards for Electron Ionization Mass Spectrometry in the Mass Range of 100-3000 Da, *J. Am. Soc. Mass. Spectrom.* **2001**, *12*, 1050.
243. I. Ryu, S. Kreimerman, T. Niguma, S. Minakata, M. Komatsu, Z. Luo, and D. P. Curran, Synthesis of Perfluorinated Allylic Compounds by Radical Allylation and their Purification over Fluorous Reverse-Phase Silica, *Tetrahedron Lett.* **2001**, *42*, 947.
242. U. Iserloh, Y. Oderaotoshi, S. Kanemasa, and D. P. Curran, Synthesis of (R,R)-4,6-Dibenzofurandiyl-2,2'-Bis(4-Phenyloxazoline) (DBFOX/PH) – A Novel Tridentate Ligand, *Org. Syn.* **2003**, *80*, 46.
241. O. de Frutos and D. P. Curran, Solution Phase Synthesis of Libraries of Polycyclic Natural Product Analogs by Cascade Radical Annulation: Synthesis of a 64-Member Library of Mappicine Analogs and a 48-Member Library of Mappicine Ketone Analogs, *J. Comb. Chem.* **2000**, *2*, 639.
240. Q. Zhang, Z. Luo, and D. P. Curran, The Separation of “Light Fluorous” Reagents and Catalysts by Fluorous Solid Phase Extraction: Synthesis and Study of a Family of Triarylphosphines Bearing Linear and Branched Fluorous Tags, *J. Org. Chem.* **2000**, *65*, 8866.
239. D. P. Curran, H. Josien, D. Bom, A. E. Gabarda, and W. Du, The Cascade Radical Annulation Approach to New Analogs of Camptothecins: Combinatorial Synthesis of Silatecans and Homosilatecans, *Ann. N. Y. Acad. Sci.* **2000**, *922*, 112.
238. D. Bom, D. P. Curran, S. Kruszewski, S. G. Zimmer, J. T. Strode, G. Kohlhagen, W. Du, A. J. Chavan, K. A. Fraley, A. L. Bingcang, L. J. Latus, Y. Pommier, and T. G. Burke, The Novel Silatecan 7-*tert*-Butyldimethylsilyl-10-Hydroxycamptothecin Displays High Lipophilicity, Improved Human Blood Stability, and Potent Anticancer Activity, *J. Med. Chem.* **2000**, *43*, 3970.
237. D. P. Curran, Fluorous Techniques for the Synthesis of Organic Molecules: A Unified Strategy for Reaction and Separation. In: *Stimulating Concepts in Chemistry* (M. Shibasaki, J. Fraser Stoddart and F. Vögtle, Eds.), Wiley-VCH, Weinheim, **2000**, 25.
236. Y. Nakamura, S. Takeuchi, Y., and D. P. Curran, Preparation of a Fluorous Chiral BINOL Derivative and Application of an Asymmetric Protonation Reaction, *Tetrahedron* **2000**, *56*, 351.
235. B. P. Haney and D. P. Curran, Round Trip Radical Reactions from Acyclic Precursors to Tricyclo[5.3.1.0]^{2,6}undecanes. A New Cascade Radical Cyclization Approach to (±)-Isogymnomitrene and (±)-Gymnomitrene, *J. Org. Chem.* **2000**, *65*, 2007.
234. T. Nagashima, A. Rivkin, and D. P. Curran, On the Reduction of Tertiary Radicals by Samarium Diiodide (SmI₂), *Can. J. Chem.* **2000**, *78*, 791.
233. A. Crombie, S. - Y. Kim, S. Hadida, and D. P. Curran, Synthesis of *tris*(2-perfluorohexylethyl)tin Hydride Stannane, *tris*-(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-: A Highly Fluorinated Tin Hydride with Advantageous Features of Easy Purification, *Org. Syn.* **2003**, *79*, 1.
232. Y. Nakamura, S. Takeuchi, Y. Ohgo, and D. P. Curran, Asymmetric Alkylation of Aromatic Aldehydes with Diethylzinc Catalyzed by a Fluorous BINOL-Ti Complex in an Organic and Fluorous Biphasic System, *Tetrahedron Lett.* **2000**, *41*, 57.

231. D. P. Curran, W. Liu, and C. H.-T. Chen, Transfer of Chirality in Radical Cyclizations. Cyclization of *o*-Haloacrylanilides to Oxindoles with Transfer of Axial Chirality to a Newly Formed Stereocenter, *J. Am. Chem. Soc.* **1999**, *121*, 11012.
230. R. K. Kondru, C. H.-T. Chen, D. P. Curran, D. N. Beratan, and P. Wipf, Determination of the Absolute Configuration of 1,3,5,7-Tetramethyl-1,3-dihydroindol-2-one by Optical Rotation Computation, *Tetrahedron: Asymmetry* **1999**, *10*, 4143.
229. D. P. Curran, S. Hadida, and S.-Y. Kim, *tris*(2-Perfluorohexylethyl)tin azide: A New Reagent for Preparation of 5-Substituted Tetrazoles from Nitriles with Purification by Fluorous/Organic Liquid-Liquid Extraction, *Tetrahedron* **1999**, *55*, 8997.
228. D. P. Curran and Y. Nishii, Does the Facile Reductive Rearrangement of 2-Allyloxy-cyclohexenone with Bu₃SnH Occur by a Ketyl-Accelerated Claisen Rearrangement or a Stannyloxy-Accelerated Claisen Rearrangement, *J. Am. Chem. Soc.* **1999**, *121*, 8955.
227. D. P. Curran and Z. Luo, Fluorous Synthesis with Fewer Fluorines (Light Fluorous Synthesis): Separation of Tagged from Untagged Products by Solid-Phase Extraction with Fluorous Reverse Phase Silica Gel, *J. Am. Chem. Soc.* **1999**, *121*, 9069.
226. D. Bom, D. P. Curran, A. J. Chavan, S. Kruszewski, S. G. Zimmer, K. A. Fraley, and T. G. Burke, Novel A,B,E-Ring-Modified Camptothecins Displaying High Lipophilicity and Markedly Improved Human Blood Stabilities, *J. Med. Chem.* **1999**, *42*, 3018.
225. U. Iserloh, D. P. Curran and S. Kanemasa, Enantioselective Conjugate Radical Addition Reactions Mediated by Chiral Lewis Acid Complexes of (*R,R*)-4,6-Dibenzofurandiyl-2,2'-bis(4-phenyloxazoline) (DBFOX/Ph), *Tetrahedron: Asymmetry* **1999**, *10*, 2417.
224. B. Linclau and D. P. Curran, Fluorous Scavenging. In: *High-Throughput Synthesis: Principles and Practices*, (I. Sucholietcki, Ed.), Marcel Dekker, New York, **2001**, 135.
223. D. P. Curran, Parallel Synthesis with Fluorous Reagents and Reactants, *Med. Chem. Res.* **1999**, *19/5*, 432.
222. I. F. Pollack, M. Erff, D. Bom and D. P. Curran, Potent Topoisomerase I Inhibition by Novel "Designer" Silatecans Eliminates Glioma Proliferation *in vitro* and *in vivo*, *Cancer Research* **1999**, *59*, 4898.
221. J. J. Maul, P. J. Ostrowski, G. A. Ublacker, B. Linclau and D. P. Curran, Benzotrifluoride and Derivatives: Useful Solvent for Organic Synthesis and Fluorous Synthesis. In: *Modern Solvents in Organic Synthesis* (P. Knochel, Ed.), Springer-Verlag, Berlin-Heidelberg, **1999**, *206*, 79.
220. D. P. Curran, S. Hadida, S.-Y. Kim, and Z. Luo, Fluorous Tin Hydrides: A New Family of Reagents for Use and Reuse in Radical Reactions, *J. Am. Chem. Soc.* **1999**, *121*, 6607.
219. B. Linclau, A. K. Singh, and D. P. Curran, Organic-Fluorous Phase Switches: A Fluorous Amine Scavenger for Purification in Solution Phase Parallel Synthesis, *J. Org. Chem.* **1999**, *64*, 2835.
218. K. Olofsson, S.-Y. Kim, M. Larhed, D. P. Curran, and A. Hallberg, High-Speed, Highly Fluorous Organic Reactions, *J. Org. Chem.* **1999**, *64*, 4539.
217. D. P. Curran, S. Geib, and N. DeMello, Rotational Features of Carbon-Nitrogen Bonds in *N*-aryl Maleimides. Atroposelective Reactions of *N*-(2,5-*di-tert*-butylphenyl)maleimides, *Tetrahedron* **1999**, *55*, 5681.
216. D. P. Curran and A. E. Gabarda, Formation of Cyclopropanes by Homolytic Substitution Reactions of 3-Iodopropyl Radicals: Preparative and Rate Studies, *Tetrahedron* **1999**, *55*, 3327.

215. I. Ryu, T. Niguma, S. Minakata, M. Komatsu, Z. Luo, and D. P. Curran, Radical Carbonylations with Fluorous Allyltin Reagents, *Tetrahedron Lett.* **1999**, *40*, 2367.
214. T. Burke, M. Malak, D. Bom, D. P. Curran, H. Malak, I. Gryczynski, and J. R. Lakowicz, Fluorescence Detection of Camptothecin Anticancer Drugs by Two-Photon Excitation, *Proc. SPIE-Int. Soc. Opt. Engl.* **1998**, *3259*, 136.
213. D. P. Curran, Z. Luo, and P. Degenkolb, "Propylene spaced" Allyl Tin Reagents: A New Class of Fluorous Tin Reagents for Allylations Under Radical and Metal-Catalyzed Conditions, *Bioorg. Med. Chem. Lett.* **1998**, *8*, 2403.
212. D. P. Curran and W. Liu, Radical Cyclization/Fragmentation Reactions of Dicyanocyclopropanes to Enaminonitriles. A Radical Alternative to the Thorpe-Ziegler Reaction, *Synlett* **1999**, 117.
211. D. P. Curran and S. B. Ko, Additions of Electrophilic Radicals to Electron Rich Alkenes by the Atom Transfer Method. Surmounting Potentially Reversible Radical Atom Transfer Reactions by Irreversible Ionic Reactions, *Tetrahedron Lett.* **1998**, *39*, 6629.
210. S. Kainz, Z. Y. Luo, D. P. Curran and W. Leitner, Synthesis of Perfluoroalkyl-Substituted Aryl Bromides and Their Purification over Fluorous Reverse Phase Silica, *Syntheses* **1998**, 1425.
209. D. P. Curran, R. Ferritto, and Y. Hua, Preparation of a Fluorous Benzyl Protecting Group and Its Use in a Fluorous Synthesis Approach to a Disaccharide, *Tetrahedron Lett.* **1998**, *39*, 4937.
208. N. Spetseris, S. Hadida, D. P. Curran, and T. Y. Meyer, Organic/Fluorous Phase Extraction: A New Tool for the Isolation of Organometallic Complexes, *Organometallics* **1998**, 1458.
207. D. P. Curran, J. Sisko, A. Balog, N. Sonoda, K. Nagahara, and I. Ryu, Carbonylative Radical Cyclization Approaches to Tri- and Tetra-Quinanes: Sequential Formation of Three, Four and Five Carbon-Carbon Bonds, *J. Chem. Soc., Perkin Trans. I* **1998**, 1591.
206. D. P. Curran and Z. Luo, Rapid, Parallel Synthesis of Homoallylic Alcohols by Lewis Acid Mediated Allylations of Aldehydes with New Fluorous Allyl Stannanes, *Med. Chem. Res.* **1998**, *8*, 261.
205. S. Takeuchi, Y. Nakamura, Y. Ohgo, and D. P. Curran, Catalytic Enantioselective Protonation of a Samarium Enolate with Fluorous Chiral and Achiral Proton Sources in Fluorous Biphasic Systems, *Tetrahedron Lett.* **1998**, *39*, 8691.
204. D. P. Curran, Fluorous Synthesis: An Alternative to Organic Synthesis and Solid Phase Synthesis for the Preparation of Small Organic Molecules, *Cancer Journal* **1998**, *4*, Supp. 1, S73.
203. J. Xiang, J. Evarts, A. Rivkin, D. P. Curran, and P. L. Fuchs, Use of Allylic Triflones for Allylation of C-H Bonds, *Tetrahedron Lett.* **1998**, *39*, 4163.
202. C. Wang, X. Gu, M. S. Yu, and D. P. Curran, Synthesis of Fused Bicyclic Rings by Tandem Radical Ring Expansion/Cyclization: Evaluating Competing Intramolecular Reactions, *Tetrahedron* **1998**, *54*, 8355.
201. U. Iserloh and D. P. Curran, Radical Cyclizations of Acylgermanium Oxime Ethers and Hydrazones: Direct Route to Cyclic Hydrazones and Oximes, *J. Org. Chem.* **1998**, *63*, 4711.
200. D. P. Curran, G. R. Hale, S. Geib, A. Balog, Q. B. Cass, A. L. G. Degani, M. Z. Hernandez, and L. C. G. Freitas, Rotational Features of Carbon-Nitrogen Bonds in Axially Chiral *o*-*tert*-Butyl Anilides and Related Molecules, *Tetrahedron: Asymmetry* **1997**, *23*, 3955.

199. N. C. DeMello and D. P. Curran, Stereoselection at the Steady State by Stereoconvergent Reaction Topography, *J. Am. Chem. Soc.* **1998**, *120*, 329.
198. D. P. Curran, C.-H. Lin, N. DeMello, and J. Junggebauer, Stereoselection at the Steady State, Part 2. Group Selective Radical Cyclizations of Substrates Containing Two Radical Precursors and One Radical Acceptor, *J. Am. Chem. Soc.* **1998**, *120*, 342.
197. D. P. Curran, Strategy Level Separations in Organic Synthesis: From Planning to Practice, *Angew. Chem. Int. Ed.* **1998**, *37*, 4000.
196. D. P. Curran and J. Xu, Unimolecular Chain Transfer (UMCT) Reactions of Silicon Hydrides: Controlling Relative Configuration in Hydrogen Transfer Reactions of Cyclic Radicals, *Synlett* **1997**, 1102.
195. D. P. Curran, S. Hadida, and M. He, Thermal Allylations of Aldehydes with a Fluorous Allylstannane. Separation of Organic and Fluorous Products by Solid Phase Extraction with Fluorous Reverse Phase Silica Gel, *J. Org. Chem.* **1997**, *62*, 6714.
194. B. Yoo, D. P. Curran, J. H. Kim, S. H. Yim, and K. Y. Chang, Sequential Radical Ring Expansion and Allylation Reactions Using 2-Bromo-3-(phenylthio)propene: Their Application to the Synthesis of Bridged Ring Systems, *Bull. Korean Chem. Soc.* **1997**, *18*, 793.
193. I. Ryu, T. Niguma, S. Minakata, M. Komatsu, S. Hadida, and D. P. Curran, Hydroxymethylation of Organic Halides. Evaluation of a Catalytic System Involving a Fluorous Tin Hydride Reagent for Radical Carbonylation, *Tetrahedron Lett.* **1997**, *38*, 7883.
192. S. Kanemasa, Y. Oderaotoshi, H. Yamamoto, J. Tanaka, E. Wada, and D. P. Curran, Remarkable Chiral Amplification Induced by Aqua Complex of DBFOX/Ph-Metal(II) Perchlorates in Diels-Alder Reactions. Cooperation of Two New Chirality Enrichment Mechanisms, *J. Am. Chem. Soc.* **1998**, *120*, 3074.
191. S. Kanemasa, Y. Oderaotoshi, H. Yamamoto, J. Tanaka, E. Wada, and D. P. Curran, Cationic Aqua Complex of the C₂-Symmetric *trans*-Chelating Ligand, (*R,R*)-4,6-Dibenzofurandiyl-2,2'-bis(4-phenyloxazoline). Absolute Chiral Induction in Diels-Alder Reactions Catalyzed by Water-Tolerant Homochiral Lewis Acids, *J. Org. Chem.* **1997**, *62*, 6454.
190. D. P. Curran, X. Gu, W. Zhang, and P. Dowd, On the Mechanism of the Intramolecular Samarium Barbier Reaction. Probes for Formation of Radical and Organosamarium Intermediates, *Tetrahedron* **1997**, *53*, 9023.
189. S. Hadida, M. S. Super, E. J. Beckman, and D. P. Curran, Radical Reactions with Alkyl and Fluoroalkyl (Fluorous) Tin Hydride Reagents in Supercritical CO₂, *J. Am. Chem. Soc.* **1997**, *119*, 7406.
188. D. P. Curran, Cascade Radical Reactions in Organic Synthesis: An Overview. In *Controlled Radical Polymerization*, (Matyjaszewski, K., Ed.); ACS Symposium Series: Washington, DC, **1998**, 685, 62.
187. H. Josien, D. Bom, and D. P. Curran, 7-Silylcampthothecins: A New Family of Campthothecin Antitumor Agents, *Bioorg. Med. Chem. Lett.* **1997**, *7*, 3189.
185. X. Gu and D. P. Curran, Samarium-Mediated Reactions. In *Transition Metals for Fine Chemicals and Organic Synthesis*, (C. Bolm and M. Beller, Eds.), VCH, Weinheim, in press.

185. J. H. Horner, F. N. Martinez, M. Newcomb, S. Hadida, and D. P. Curran, Rate Constants for Reaction of a Fluorous Tin Hydride Reagent with Primary Alkyl Radicals, *Tetrahedron Lett.* **1997**, *38*, 2783.
184. M. Hoshino, P. Degenkolb, and D. P. Curran, Palladium-Catalyzed Stille Couplings with Fluorous Tin Reactants, *J. Org. Chem.* **1997**, *62*, 8341.
183. A. Studer and D. P. Curran, A Strategic Alternative to Solid Phase Synthesis: Preparation of a Small Isoxazoline Library by "Fluorous Synthesis," *Tetrahedron* **1997**, *53*, 6681.
182. B. C. Quezia, A. L. G. Degani, M. E. Tiritan, S. A. Martin, and D. P. Curran, Enantiomeric Resolution by HPLC of Axial Chiral Amides Using Amylose Tris[(S)-1-Phenylethylcarbamate], *Chirality* **1997**, *9*, 2.
181. D. P. Curran and M.-H. Yoon, Can An Aromatic Ring Alter The Reactions of a Nearby Unsaturated Imide? A Study of the Rate and Selectivity of Nitrile Oxide Cycloaddition Reactions of Acryloyl Derivatives of the Rebek Imide Benzoxazole, *Tetrahedron* **1997**, *53*, 1971.
180. H. Josien and D. P. Curran, Synthesis of (S)-Mappicine and Mappicine Ketone via Radical Cascade Reaction of Isonitriles, *Tetrahedron* **1997**, *53*, 8881.
179. A. Ogawa and D. P. Curran, Benzotrifluoride: A Useful Alternative Solvent for Organic Reactions Currently Conducted in Dichloromethane and Related Solvents, *J. Org. Chem.* **1997**, *62*, 450.
178. H. Josien, S.-B. Ko, D. Bom, and D. P. Curran, A General Synthetic Approach to the (20S)-Camptothecin Family of Antitumor Agents by a Regiocontrolled Cascade Radical Cyclization of Aryl Isonitriles, *Chem. Eur. J.* **1998**, *4*, 67.
177. M. Larhed, M. Hoshino, S. Hadida, D. P. Curran, and A. Hallberg, Rapid Fluorous Stille Coupling Reactions Conducted under Microwave Irradiation, *J. Org. Chem.* **1997**, *62*, 5583.
176. A. Studer, P. Jeger, P. Wipf, and D. P. Curran, Fluorous Synthesis: Fluorous Protocols for the Ugi and Biginelli Multi-Component Condensations, *J. Org. Chem.* **1997**, *62*, 2917.
175. A. Martinez-Grau and D. P. Curran, Stereoselective Hydrogen Transfer Reactions of Vinyl Radicals: Cyclization of Alkynyl Iodides by Unimolecular Chain Transfer from Silicon Hydrides, *Tetrahedron* **1997**, *53*, 5679.
174. D. P. Curran, U. Diederichsen, and Michael Palovich, Radical Cyclizations of Acylgermanes. New Reagent Equivalents of the Carbonyl Radical Acceptor Synthone, *J. Am. Chem. Soc.* **1997**, *119*, 4797.
173. U. Jahn and D. P. Curran, On the Alkylation Behavior of 2(Phenylseleno) Nitriles, *Synlett* **1997**, 565.
172. B. Yoo and D. P. Curran, New Radical Allylation Reactions Using 2-Bromo-3-(Phenylthio)propene and their application to the Synthesis of Carbocyclic Compounds, *Bull. Korean. Chem. Soc.* **1996**, *17*, 1009.
171. D. P. Curran, Cascade Radical Reactions of Isonitriles. An Overview of the First and Second Generation Syntheses of Camptothecin and Related Antitumor Agents, *Korea OCRC Proceedings*, May **1996**.

170. A. Studer, S. Hadida, R. Ferritto, S.-Y. Kim, P. Jeger, P. Wipf, and D. P. Curran, Fluorous Synthesis: A Fluorous Phase Strategy for Improving Separation Efficiency in Organic Synthesis, *Science* **1997**, 275, 823.
169. D. Nanni and D. P. Curran, Synthesis and Some Reactions of the First Chiral Tin Hydride Containing a C₂-Symmetric Binaphthyl Substituent, *Tetrahedron-Asymmetry* **1996**, 7, 2417.
168. D. P. Curran and M. Hoshino, Stille Couplings with Fluorous Tin Reactants: Attractive Features for Preparative Organic Synthesis and Liquid-Phase Combinatorial Synthesis, *J. Org. Chem.* **1996**, 61, 6480.
167. U. Diederichsen and D. P. Curran, Bimolecular Reactions of Alkyl Halides and Acylgermanes. Formation of Ketones, Diketones, and Other Products by Radical-Radical Reactions, *J. Organomet. Chem.* **1997**, 531, 9.
166. C. Chatgililoglu, A. Alberti, M. Ballestri, and D. P. Curran, Tris(trimethylsilyl)silane as Mediator in the Radical-Based Allylation Reactions of Allyl and 2-Functionalized Allyl Phenyl Sulfones, *Tetrahedron Lett.* **1996**, 37, 6391.
165. C. Chatgililoglu, M. Ballestri, D. Vecchi, and D. P. Curran, Synthesis of 2-Functionalized Allyl Tris(trimethylsilyl)silanes, *Tetrahedron Lett.* **1996**, 37, 6383.
164. C. Chatgililoglu, M. Ballestri, C. Ferreri, and D. P. Curran, 2-Functionalized Allyl Tris(trimethylsilyl) silanes as Radical-Based Allylating Agents, *Tetrahedron Lett.* **1996**, 37, 6387.
163. D. P. Curran, Radical Reactions in Organic Synthesis: Beyond Tributyltin Hydride, Proceedings of the 50th Anniversary Meeting of the Korean Chemistry Society, **1996**.
162. D. P. Curran, H. Liu, H. Josien, and Sung-Bo Ko, Tandem Radical Reactions of Isonitriles with 2-Pyridonyl and Other Aryl Radicals: Scope and Limitations, and a First Generation Synthesis of (±)-Camptothecin, *Tetrahedron* **1996**, 52, 11385.
161. S. Thayumanavan, P. Beak, and D. P. Curran, Asymmetric Deprotonation of *N,N*-Dihexyl-1-Naphthamides to Provide Atropisomers of *N,N*-Dihexyl-2-Alkyl-1-Naphthamides, *Tetrahedron Lett.* **1996**, 37, 2899.
160. A. Studer and D. P. Curran, Reductive Coupling and Reductive Demethoxylation of Aromatic Dimethylacetals with SmI₂/Trifluoroacetic Acid, SmI₂/BF₃•Et₂O, or SmI₂/H₂O, *Synlett* **1996**, 3, 255.
159. T. Nagashima and D. P. Curran, Reactions of Tempo with Alkylsamarium and Other Organometallic Reagents, *Synlett* **1996**, 4, 330.
158. D. P. Curran, Combinatorial Organic Synthesis and Phase Separation: Back to the Future, *Chemtracts-Org. Chem.* **1996**, 9, 75.
157. D. P. Curran and J. Xu, *o*-Bromo-*p*-methoxyphenyl Ethers. Protecting-Radical Translocating (PRT) Groups that Generate Radicals from C–H Bonds β to Oxygen Atoms, *J. Am. Chem. Soc.* **1996**, 118, 3142.
156. N. A. Porter, R. L. Carter, C. L. Mero, M. G. Roepel, and D. P. Curran, Penultimate Group Effects in Free Radical Telomerizations of Acrylamides, *Tetrahedron* **1996**, 52, 4181.

155. D. P. Curran and S. Hadida, Tris(2-(Perfluorohexyl)ethyl)tin Hydride: A New Fluorous Reagent that Can Be Separated from Reaction Products by Liquid-Liquid Extraction, *J. Am. Chem. Soc.* **1996**, *118*, 2531.
154. D. P. Curran and H. Qi, Compounding Selectivity in Reactions of Diastereomeric Radical Intermediates: An Experimental Demonstration that the Yield of a Product from a Diastereotopic Group Selective Reaction Can Significantly Exceed the Level of Group Selectivity, *Helv. Chim. Acta* **1996**, *79*, 21.
153. D. P. Curran and A. Martinez-Grau, Stereoselective Synthesis of Alkenes by using Unimolecular Chain Transfer Reactions of Silicon Hydrides, *J. Org. Chem.* **1995**, *60*, 8332.
152. A. Balog, M. S. Yu, D. P. Curran, G. Yu, D. R. Carcanague, and Y.-K. Shue, A Practical Asymmetric Synthesis of a Pseudomonic Acid Precursor From D-Arabinose or D-Xylose, *Syn. Commun.* **1996**, *25*, 935.
151. U. Jahn and D. P. Curran, Towards a Tandem-Radical Macrocyclization-Transannular Cyclization Approach to Steroids: Transannular Cyclizations of a Macrocyclic Core, *Tetrahedron Lett.* **1995**, *36*, 8921.
150. H. Liu, S.-B. Ko, H. Josien, and D. P. Curran, Selective *N*-Functionalization of 6-Substituted-2-Pyridones, *Tetrahedron Lett.* **1995**, *36*, 8917.
149. D. P. Curran, S.-B. Ko, and H. Josien, Cascade Radical Reactions of Isonitriles: A Second Generation Synthesis of (20*S*)-Camptothecin, Topotecan, Irinotecan, and GI-147211C, *Angew. Chem. Int. Ed.* **1995**, *34*, 2948.
148. I. Ryu, N. Sonoda, and D. P. Curran, Tandem Radical Reactions of Carbon Monoxide, Isonitriles, and Other Reagent Equivalents of the Geminal Radical Acceptor/Radical Precursor Synthons, *Chem. Rev.* **1996**, *96*, 177.
147. D. P. Curran, J. Xu, and E. Lazzarini, Unimolecular Chain Transfer (UMCT) Reactions: Concepts, Preliminary Results with Silicon Hydrides, and Future Potential, *J. Chem. Soc., Perkin Trans. 1* **1995**, 3049.
146. D. P. Curran and J. Xu, "Giese-type" Radical Addition Reactions to an Acceptor that Functions by a Unimolecular Chain Transfer Reaction of a Silicon Hydride, *J. Chem. Soc., Perkin Trans. 1* **1995**, 3061.
145. D. P. Curran, J. Xu, and E. Lazzarini, Controlling Radical Chain Reactions by Unimolecular Chain Transfer (UMCT). Intramolecular Hydrogen Transfer Reactions of Silicon Hydrides, *J. Am. Chem. Soc.* **1995**, *117*, 6603.
144. D. P. Curran and L. H. Kuo, Acceleration of a Dipolar Claisen Rearrangement by Hydrogen Bonding to a Soluble Diaryl Urea, *Tetrahedron Lett.* **1995**, *36*, 6647.
143. H. Qi and D. P. Curran, Synthesis of Acylsilanes, Germanes and Boranes, "Organic Functional Group Preparations," Vol. 5, Chapter 9, Elsevier, **1995**, 409.
142. D. P. Curran and L. Balas, The Role of Electronic and Stereoelectronic Effects on Asymmetric Iodine and Hydrogen Transfer Reactions of Conjugated Radicals, *Synlett* **1995**, 119.
141. C. S. Wilcox, E. Kim, D. Romano, L. H. Kuo, A. L. Burt, and D. P. Curran, Experimental and Theoretical Studies of Substituent Effects in Hydrogen Bond Based Molecular Recognition of A Zwitterion by Substituted Arylureas, *Tetrahedron* **1995**, *51*, 621.

140. A. Balog and D. P. Curran, Ring Enlarging Annulations. A One Step Conversion of Cyclic Silyl Acyloins and ω -Alkynyl Acetals to Polycyclic Eneiones, *J. Org. Chem.* **1995**, *60*, 337.
139. D. P. Curran, A. Balog, and S. V. Geib, Additive and Medium Effects on Lewis Acid Promoted Cationic π -Cyclizations of Alkenyl- and Alkynylcyclopentane-1,3-diones, *J. Org. Chem.* **1995**, *60*, 345.
138. D. P. Curran, H. Qi, N. C. DeMello, and C.-H. Lin, Substrate-Controlled Group-Selective Radical Cyclizations. A New Strategy for Stereocontrolled Transformations of Diastereomeric Reactive Intermediates, *J. Am. Chem. Soc.* **1994**, *116*, 8430.
137. D. P. Curran and S.-B. Ko, Synthesis of Optically Active α -Hydroxy Lactones by Sharpless Asymmetric Dihydroxylations of Ketene Acetals, Enol Ethers, and Enelactones, *J. Org. Chem.* **1994**, *59*, 6139.
136. D. P. Curran, N. Yamazaki, and E. Eichenberger, Synthesis of β -Mannopyranosides from α -Epimers by Radical Inversion. 1,6-Hydrogen Transfer Reactions of 2-*O*-(2-Bromoaryl)dimethylsilyl- α -methyl-D-mannopyranosides, *Tetrahedron Lett.* **1994**, *35*, 6623.
135. D. P. Curran, S. J. Geib, and L.-H. Kuo, Group Transfer Addition Reactions of Selenomalononitriles to Chiral Enol Ethers. Asymmetric Radical Addition and Selenium Transfer Reactions, *Tetrahedron Lett.* **1994**, *35*, 6235.
134. D. P. Curran and S. Sun, Tandem Radical Cyclizations: A One-Step Synthesis of Stereoisomeric Tricyclo[6.3.0.0^{2,6}]undecanes from Acyclic Precursors, *Aust. J. Chem.* **1995**, *48*, 261.
133. D. P. Curran and L. H. Kuo, Altering the Stereochemistry of Allylation Reactions of Cyclic α -Sulfinyl Radicals with a Diaryl Urea, *J. Org. Chem.* **1994**, *59*, 3259.
132. P. Renaud, N. Moufid, L. H. Kuo, and D. P. Curran, Altering the Stereochemistry of Allylation Reactions of Cyclic α -Sulfinyl Radicals: Effects of Solvents and Lewis Acids, *J. Org. Chem.* **1994**, *59*, 3547.
131. D. P. Curran, H. Yu, and H. Liu, Amide-Based Protecting/Radical Translocating (PRT) Groups. Generation of Radicals Adjacent to Carbonyls by 1,5-Hydrogen Transfer Reactions of *o*-Iodoanilides, *Tetrahedron* **1994**, *50*, 7343.
130. D. P. Curran, H. Qi, S. J. Geib, and N. C. DeMello, Atroposelective Thermal Reactions of Axially Twisted Amides and Imides, *J. Am. Chem. Soc.* **1994**, *116*, 3131.
129. D. P. Curran and H. Liu, Radical Translocation Reactions Across Amides. 1,5-Hydrogen Transfer Reactions of *o*-Iodobenzamides and *N*-(*o*-Iodobenzyl) Amides, *J. Chem. Soc., Perkin Trans. 1* **1994**, 1377.
128. D. P. Curran, W. Shen, J. Zhang, S. V. Geib, and C.-H. Lin, Controlling Stereochemistry in Radical Addition and Cyclization Reactions with Oppolzer's Camphor Sultam, *Heterocycles* **1994**, *37*, 1773.
127. D. P. Curran, S. V. Geib, and C.-H. Lin, Group Selective Radical Cyclizations with Oppolzer's Camphor Sultam, *Tetrahedron: Asymmetry* **1994**, *5*, 199.
126. D. P. Curran, E. Eichenberger, M. Collis, M. G. Roepel, and G. Thoma, Group Transfer Addition Reactions of Methyl (Phenylseleno)malononitrile to Alkenes, *J. Am. Chem. Soc.* **1994**, *116*, 4279.
125. D. P. Curran and S. Sun, Cram's Rule for Radicals: Stereoselective Hydrogen Abstraction Reactions of N-H Substituted Radicals, *Tetrahedron Lett.* **1993**, *34*, 6181.

124. E. Hasegawa and D. P. Curran, Additive and Solvent Effects on SmI₂ Reductions, *J. Org. Chem.* **1993**, *58*, 5008.
123. D. P. Curran and N. DeMello, Origins of Regioselectivity in Radical Reactions of Axially Twisted Acetanilides, *J. Chem. Soc., Chem. Commun.* **1993**, 1314.
122. D. P. Curran, H. Qi, N. A. Porter, Q. Su, and W.-X. Wu, Rate Constants for Additions of Cyclohexyl Radicals to Acrylamides, Imides, and Sulfonimides, *Tetrahedron Lett.* **1993**, *34*, 4489.
121. D. P. Curran, A.-A. Martin-Esker, S.-B. Ko and M. Newcomb, Rates Constants for Chalcogen Group Transfer in Bimolecular Substitution Reactions with Primary Alkyl Radicals, *J. Org. Chem.* **1993**, *58*, 4691.
120. D. P. Curran, S. Gothe and S.-M. Choi, Hydrogen Bond Directed Nitrile Oxide Cycloadditions of Allylic and Homoallylic 2°-Amides, *Heterocycles* **1993**, *35*, 1371.
119. D. P. Curran, The Camptothecins: A Reborn Family of Antitumor Agents, *J. Chinese Chem. Soc.* **1993**, *40*, 1.
118. G. Thoma, D. P. Curran, S. V. Geib, B. Giese, W. Damm, and F. Wetterich, 1,2-Asymmetric Induction Reactions of Non-Conjugated Acyclic Radicals. Highly Selective Iodine Transfer Reactions of Alkyl Radicals, *J. Am. Chem. Soc.* **1993**, *115*, 8585.
117. E. Hasegawa and D. P. Curran, Rate Constants for Reactions of 1°-Alkyl Radicals with SmI₂ in THF/HMPA, *Tetrahedron Lett.* **1993**, *34*, 1717.
116. D. P. Curran W.-T. Jiaang, M. Palovich and Y.-M Tsai, Acylsilanes as Geminal Radical Acceptor/Radical Donor Equivalents in Tandem Cyclization/Addition Reactions, *Synlett* **1993**, 403.
115. D. P. Curran and M. Shu, Atom Transfer Cyclization Reactions of Unsaturated Phenyl-seleno- and Iodomalononitriles, *Bull. Soc. Chim. Fr.* **1993**, *130*, 314.
114. D. P. Curran, J. Sisko, P. Yeske, and H. Liu, Recent Applications of Radical Reactions in Organic Synthesis, *Pure Appl. Chem.* **1993**, *65*, 1153.
113. D. P. Curran and W. Shen, Radical Translocation Reactions of Vinyl Radicals. Substituent Effects on 1,5-Hydrogen Transfer, *J. Am. Chem. Soc.* **1993**, *115*, 6051.
112. D. P. Curran and A. Abraham, 1,2-Asymmetric Induction in Radical Reactions. Deuteration and Allylation Reactions of β-Oxy-*o*-Iodoanilides, *Tetrahedron* **1993**, *49*, 4821.
111. D. P. Curran and P. J. Ramamoorthy, 1,2-Asymmetric Induction in Radical Reactions. Deuteration and Allylation Reactions of β-Oxy-α-Bromo Esters, *Tetrahedron* **1993**, *49*, 4841.
110. D. P. Curran and W. Shen, Tandem Transannular Radical Cyclizations. Total Syntheses of (±)-Modhephene and (±)-*Epi*-Modhephene, *Tetrahedron* **1993**, *49*, 775.
109. J. A. Stack, T. A. Heffner, S. J. Geib, and D. P. Curran, New Bis-Lactam Chiral Auxiliaries for Nitrile Oxide Cycloadditions, *Tetrahedron* **1993**, *49*, 995.
108. B. H. Kim and D. P. Curran, Asymmetric Thermal Reactions with Oppolzer's Camphor Sultam, *Tetrahedron* **1993**, *49*, 293.
107. D. P. Curran and B. Yoo, New Reagents for Radical Allylations, *Tetrahedron Lett.* **1992**, *33*, 6931.

106. J. Sisko, A. Balog, and D. P. Curran, Annulative Ring Expansions. Direct Conversion of ω -Alkynyl Acetals to Polycyclic Unsaturated Ketones, *J. Org. Chem.* **1992**, *57*, 4341.
105. D. P. Curran and M. Palovich, Approximate Absolute Rate Constants for 5-Exo and 6-Exo Cyclizations of 1°-Radicals to Acyl Triphenylgermanes, *Synlett* **1992**, 631.
104. D. P. Curran and H. Liu, New 4 + 1 Radical Annulations. A Formal Total Synthesis of (\pm)-Camptothecin, *J. Am. Chem. Soc.* **1992**, *114*, 5863.
103. D. P. Curran and G. Thoma, Additions of Malononitrile Radicals to Alkenes: New Examples of 1,2-Asymmetric Induction in Iodine and Phenylselenium Transfer Reactions, *J. Am. Chem. Soc.* **1992**, *114*, 4436.
102. J. G. Stack, D. P. Curran, S. V. Geib, J. Rebek, Jr., and P. Ballester, A New Chiral Auxiliary for Asymmetric Thermal Reactions: High Stereocontrol in Radical Addition, Allylation and Annulation Reactions, *J. Am. Chem. Soc.* **1992**, *114*, 7007.
101. D. P. Curran, T. L. Fevig, C. M. Jasperse, and M. J. Totleben, New Mechanistic Insights into Reductions of Halides with Samarium(II) Iodide, *Synlett* **1992**, 927.
100. D. P. Curran and M. J. Totleben, The Samarium Grignard Reaction. In Situ Formation and Reactions of Primary and Secondary Alkylsamarium(III) Reagents, *J. Am. Chem. Soc.* **1992**, *114*, 6050.
99. D. P. Curran, C. M. Jasperse, and A. Abraham, Radical Isomerization and Allylation Reactions of 2-Iodo-3,3-dimethylpent-3-enoate Esters, *Synlett* **1992**, 25.
98. D. P. Curran, K. Somayajula, and H. Yu, Intramolecular Hydrogen Transfer Reactions of *o*-(Bromophenyl)dialkylsilyl Ethers. Preparation of Rapamycin-*d*₁, *Tetrahedron Lett.* **1992**, *33*, 2295.
97. D. P. Curran and C. M. Seong, Atom Transfer Addition and Annulation Reactions of Propargyl Iodomalononitriles, *Tetrahedron* **1992**, *48*, 2157.
96. D. P. Curran and C. M. Seong, Radical Annulation Reactions of Allyl Iodomalononitriles, *Tetrahedron* **1992**, *48*, 2175.
95. D. P. Curran and H. Yu, New Applications of 1,5-Hydrogen Atom Transfer Reactions: Self-Oxidizing Protecting Groups, *Synthesis* **1992**, 123.
94. B. Giese, W. Damm, J. Dickhaut, F. Wetterich, S. Sun, and D. P. Curran, Cram's Rule for Radical Reactions, *Tetrahedron Lett.* **1991**, *32*, 6097.
93. M. J. Totleben, D. P. Curran, and P. Wipf, Conjugate Addition Reactions of Organosamarium Species via *in situ* Transmetalation to Cu(I) Salts, *J. Org. Chem.* **1992**, *57*, 1740.
92. D. P. Curran and G. Thoma, Mechanistic Studies of Atom Transfer Addition Reactions of Iodomalononitriles to Alkenes. 1,2-Asymmetric Induction in an Iodine Atom Transfer Reaction, *Tetrahedron Lett.* **1991**, *32*, 6307.
91. D. P. Curran, C. P. Jasperse, and M. J. Totleben, Approximate Absolute Rate Constants for the Reactions of Tributyltin Radicals With Aryl and Vinyl Halides, *J. Org. Chem.* **1991**, *56*, 7169.
90. N. A. Porter, B. Giese, and D. P. Curran, Control of Acyclic Stereochemistry in Radical Reactions, *Acc. Chem. Res.* **1991**, *24*, 296.
89. J. Zhang and D. P. Curran, Stereoselective Synthesis of 1,2-Diols by the Cycloadditive Strategy. Total Syntheses of (\pm)-exo-Brevicomin and (\pm)- and (-)-Pestalotin, *J. Chem. Soc., Perkin Trans. 1* **1991**, 2627.

88. D. P. Curran and J. Zhang, Nucleophilic Additions to and Reductions of 5-Formyl- and 5-Acyl-2-Isloxazolines (4,5-Dihydroisoxazoles): A Stereoselective Route to β,γ -Dihydroxy Ketones, *J. Chem. Soc., Perkin Trans. 1* **1991**, 2613.
87. J. G. Stack, D. P. Curran, J. Rebek, Jr., and P. Ballester, A New Chiral Auxiliary for Asymmetric Thermal Reactions: High Regio- and β -Stereoselectivity in Asymmetric Radical Addition Reactions to Mixed Fumarimides, *J. Am. Chem. Soc.* **1991**, *113*, 5918.
86. D. P. Curran, Radical Reactions in Organic Synthesis, "Proceedings of the 12th National Organic Symposium," Minneapolis, MN, 1991.
85. D. P. Curran, A. Abraham, and H. Liu, Radical Translocation Reactions of *o*-Iodoanilides: the Use of Carbon-Hydrogen Bonds as Precursors of Radicals Adjacent to Carbonyl Groups, *J. Org. Chem.* **1991**, *56*, 4335.
84. D. P. Curran and H. Liu, Unsaturated Acyl Germanes Isomerize by a Chain Mechanism Involving Radical Cyclization to an Acyl Germane, *J. Org. Chem.* **1991**, *56*, 3463.
83. D. P. Curran and R. Wolin, Sequential Carbon-Carbon Bond Forming Reactions. A Samarium(II) Iodide Mediated Vinylogous Barbier Reaction Followed by an Aldol Reaction, *Synlett* **1991**, 317.
82. C. M. Jasperse, D. P. Curran, and T. L. Fevig, Radical Reactions in Natural Product Synthesis, invited review for *Chem. Rev.* **1991**, *91*, 1237.
81. D. P. Curran, T. M. Morgan, C. E. Schwartz, B. B. Snider, and M. Dombroski, Cyclizations of Unsaturated $RC\cdot(COX)_2$ Radicals. Manganese(III) Acetate Oxidative Cyclizations of Unsaturated Acetoacetates and Atom Transfer Cyclizations of Unsaturated Haloacetoacetates Give the Same Cyclic Radicals, *J. Am. Chem. Soc.* **1991**, *113*, 6607.
80. D. P. Curran, D. Kim and C. B. Ziegler, Iodine Atom Transfer Reactions with Alkynes: Part 2, α -Iodocarbonyls, *Tetrahedron* **1991**, *47*, 6189.
79. D. P. Curran and D. Kim, Iodine Atom Transfer Reactions with Alkynes: Part 1, Alkyl Iodides, *Tetrahedron* **1991**, *47*, 6171.
78. D. P. Curran and C. M. Seong, The Tin Hydride Reduction of Geminal Di-Nitriles to Mono-nitriles, *Synlett* **1991**, 107.
77. D. P. Curran and H. Liu, 4 + 1 Radical Annulations of Isocyanides. A Direct Synthesis of 2,3-Dihydro-1*H*-cyclopenta[b]quinolines, *J. Am. Chem. Soc.* **1991**, *113*, 2127.
76. D. P. Curran, Radical Reactions and in Retrosynthetic Planning, *Synlett* **1991**, 63.
75. D. P. Curran and J. Tamine, Atom Transfer Cyclizations Reactions of α -Iodo Esters and Amides, *J. Org. Chem.* **1991**, *56*, 2746.
74. D. P. Curran and C. M. Seong, Atom Transfer Addition, Annulation, and Macrocyclization Reactions of Iodomalononitriles, *J. Am. Chem. Soc.* **1990**, *112*, 9401.
73. D. P. Curran, W. Shen, J. Zhang, and T. A. Heffner, Asymmetric Radical Addition, Cyclization, and Annulation Reactions with Oppolzer's Camphor Sultam. *J. Am. Chem. Soc.* **1990**, *112*, 6738.
72. D. P. Curran, T. L. Fevig, and M. J. Totleben, Sequential Radical Cyclization/Organometallic Addition. On the Mechanism of the Samarium(II) Mediated Barbier Reaction in HMPA. *Synlett* **1990**, 773.
71. D. P. Curran and J.-C. Chao, Stereoselective Reactions of Δ^2 -Isloxazoline Exo-azaenolates. A Model for Construction of the C-Ring of Sesbanimide A. *Syn. Commun.* **1990**, *20*, 3575.

70. C. E. Schwartz and D. P. Curran, New Tandem Radical Cyclizations Directed Toward the Synthesis of Crinipellin A, *J. Am. Chem. Soc.* **1990**, *112*, 9272.
69. D. P. Curran and J.-C. Chao, Control of Relative Stereochemistry in the Cycloadditive Route to β -Hydroxy Carbonyls. Stereoselective Exo Aldol Reactions of Δ^2 -2-Isloxazolines. *Tetrahedron* **1990**, *46*, 7325.
68. D. P. Curran and T. Heffner, On the Scope of Asymmetric Nitrile Oxide Cycloadditions with Oppolzer's Chiral Sultam. Total Syntheses of (+)-Hepialone, (-)-(1*R*,3*R*,5*S*)-1,3-Dimethyl-2,9-dioxabicyclo[3.3.]nonane, and (-)-(1*S*)-7,7-Dimethyl-6,8-dioxabicyclo[3.2.1]octane, *J. Org. Chem.* **1990**, *55*, 4585.
67. D. P. Curran, S.-M. Choi, S. A. Gothe, and F. Lin, Directed Nitrile Oxide Cycloaddition Reactions. The Use of Hydrogen Bonding to Direct Regio- and Stereochemistry in Nitrile Oxide Cycloadditions with Cyclopentenylamides, *J. Org. Chem.* **1990**, *55*, 3710.
66. D. P. Curran, P. van Elburg, B. Giese, and S. Gilges, Approximate Rate Constants for the Addition of Alkyl Radicals to Allylstannanes, *Tetrahedron Lett.* **1990**, *31*, 2861.
65. D. P. Curran and C.-T. Chang, Experimental Evidence that Palladium(0) Promoted Cyclizations of Unsaturated α -Iodocarbonyls Proceed by an Atom Transfer Radical Chain, *Tetrahedron Lett.* **1990**, *31*, 933.
64. F. R. Sallee, E. Fogel, E. Schwartz, S.-M. Choi, D. P. Curran, and H. B. Niznik, Photoaffinity Labeling of the Mammalian Dopamine Transporter, *FEBS Lett.* **1989**, *256*, 219.
63. D. P. Curran and C. P. Jasperse, Sequential radical cyclization approach to propellane triquinanes. Total synthesis of (\pm) – modhephene, *J. Am. Chem. Soc.* **1990**, *112*, 5601.
62. V. Snieckus, J.-C. Cuevas, C. P. Sloan, H. T. Liu, and D. P. Curran, Intramolecular α -Amidoyl to Aryl 1,5-Hydrogen Atom Transfer Reactions. Heteroannulation and α -Nitrogen Functionalization by Radical Translocation, *J. Am. Chem. Soc.* **1990**, *112*, 896.
61. D. P. Curran, K.-S. Jeong, T. Heffner, and J. Rebek, Jr., New Chiral Auxiliaries for Thermal Cycloadditions, *J. Am. Chem. Soc.* **1989**, *111*, 9238.
60. D. P. Curran, Radical Cyclizations and Sequential Radical Reactions, in "Comprehensive Organic Synthesis", (B. M. Trost and I. Fleming, Eds.), Pergamon Press **1991**, Volume 4, Chapter 4.2, p. 779.
59. D. P. Curran, Radical Addition Reactions, in "Comprehensive Organic Synthesis", (B. M. Trost and I. Fleming, Eds.), Pergamon Press **1991**, Volume 4, Chapter 4.1, p. 715.
58. D. P. Curran, M.-H. Chen, E. Spletzer, C.-M. Seong, and C.-T. Chang, Atom Transfer Addition and Annulation Reactions of Iodomalonates, *J. Am. Chem. Soc.* **1989**, *111*, 8872.
57. D. P. Curran and P. A. van Elburg, A New Annulation Strategy Based on Allyl and Vinyl Stannanes, *Tetrahedron Lett.* **1989**, *30*, 2501.
56. D. P. Curran, Iodine Atom Transfer Reaction in Organic Synthesis, "Proceedings of the NATO Meeting on Free Radicals in Synthesis and Biology", (F. Minisci, Ed.), Kluwer: Dordrecht, 1989, pp 37-51.
55. D. P. Curran, M.-H. Chen, and D. Kim, Atom Transfer Cyclization Reactions of Hex-5-enyl Iodides: Synthetic and Mechanistic Studies, *J. Am. Chem. Soc.* **1989**, *111*, 6276.
54. D. P. Curran, E. Bosch, J. Kaplan, and M. Newcomb, Rates Constants for Halogen Atom Abstraction from Representative Halocarbonyl Compounds by Alkyl Radicals, *J. Org. Chem.* **1989**, *54*, 1826.

53. D. P. Curran and C.-T. Chang, Atom Transfer Cyclization Reactions of Iodoesters, Ketones, and Malonates, Examples of Selective 5-exo, 6-endo, 6-exo, and 7-endo Radical Cyclizations. *J. Org. Chem.* **1989**, *54*, 3140.
52. D. P. Curran and J.-C. Chao, The Generation and Cycloaddition Reactions of Phenylthionitrile Oxide. A Preparation of 3-Phenylthio- and 3-Phenylsulfonyl- Δ^2 -Isoxazolines, *J. Org. Chem.* **1988**, *53*, 5369.
51. D. P. Curran, D. Kim, H. T. Liu, and W. Shen, Translocation of Radical Sites by Intramolecular 1,5-Hydrogen Atom Transfer, *J. Am. Chem. Soc.* **1988**, *110*, 5900.
50. D. P. Curran, M. Newcomb, and J. Kaplan, Quantitative Analysis of "Mechanistic Probe" Studies of the Reduction of Alkyl Iodides by Lithium Aluminum Hydride Supports a Polar S_N2 Mechanism, *Tetrahedron Lett.* **1988**, *29*, 3451.
49. D. P. Curran, The Design and Application of Free Radical Chain Reactions in Organic Synthesis, *Synthesis* **1988**, Part 1, pp 417-439; Part 2, pp. 489-511.
48. D. P. Curran, Tandem Radical Cyclizations. A General Route to Polycondensed Cyclopentanoid Natural Products. "Advances in Free Radical Chemistry", Vol. 1, (D. Tanner, Ed.), JAI Press: Greenwich, CN, **1990**, 127-152.
47. D. P. Curran, B. H. Kim, J. Daugherty, and T. A. Heffner, Asymmetric Induction in Nitrile Oxide Cycloadditions. A Model for the Non-Lewis Acid-Promoted Reactions of Oppolzer's Chiral Sultam, *Tetrahedron Lett.* **1988**, *29*, 3555.
46. D. P. Curran, P. Jacobs, R. Elliott, and B. H. Kim, A General Synthetic Approach to Optically Active Iridoid Aglycones. The Total Synthesis of Ethyl Descarbomethoxy Verbenalol, (-)-Ethyl Catalpol, and (-)-Specionin, *Tetrahedron* **1988**, *44*, 3079.
45. D. P. Curran and S. Gothe, Asymmetric Induction in Nitrile Oxide Cycloadditions with (α -Oxyallyl)silanes, *Tetrahedron Symposium in Print on Organosilicon Chemistry*, (I. Fleming, Ed.) *Tetrahedron* **1988**, *44*, 3945.
44. D. P. Curran and M. Newcomb, A Critical Evaluation of Alkenyl Halide "Mechanistic Probes" as Indicators of Single Electron Transfer Processes, *Acc. Chem. Res.* **1988**, *21*, 206.
43. D. P. Curran, R. Elliott, and T. Fevig, A Samarium Iodide-Induced Tandem Radical Cyclization. The Total Synthesis of (+)-Hypnophilin and the Formal Total Synthesis of (+)-Coriolin, *J. Am. Chem. Soc.* **1988**, *110*, 5064.
42. D. P. Curran, The Cycloadditive Route to β -Hydroxy Carbonyls. A Powerful Complement to the Aldol Strategy. "Advances in Cycloaddition", (Curran, D. P., Ed.), JAI Press: Greenwich, CN, **1988**, pp 129-189.
41. D. P. Curran and Y.-G. Suh, Selective Mono-Claisen Rearrangements of Carbohydrate Glycals. A Chemical Consequence of the Vinylogous Anomeric Effect, *Carbohydrate Research Symposium on C-Glycosides*, **1987**, *171*, 161.
40. D. P. Curran and S.-C. Kuo, The Tandem Radical Approach to Angular Triquinanes. Model Studies and Total Synthesis of (+)-Silphiperfolene and (+)-Episilphiperfolene, *Tetrahedron Symposium in Print on Sesquiterpene Synthesis*, (J. Huffmann, Ed.), *Tetrahedron* **1987**, *43*, 5653.
39. D. P. Curran and M.-H. Chen, Atom Transfer Cycloaddition. A Facile Preparation of Functionalized (Methylene)cyclopentanes, *J. Am. Chem. Soc.* **1987**, *109*, 6558.
38. D. P. Curran, P. Jacobs, R. Elliott, and B. H. Kim, A General Synthetic Approach to Iridoids. The Total Synthesis of (-)-Specionin, *J. Am. Chem. Soc.* **1987**, *109*, 5280.

37. D. P. Curran and C.-T. Chang, Atom Transfer Cyclization Reactions of α -Iodo Carbonyls, *Tetrahedron Lett.* **1987**, 28, 2477.
36. D. P. Curran and J.-C. Chao, Relative Stereocontrol in the Cycloadditive Strategy. Regio- and Stereoselective Exo-Alkylation of Δ^2 -Isoxazolines, *J. Am. Chem. Soc.* **1987**, 109, 3036.
35. D. P. Curran, B. H. Kim, H. P. Piyasena, R. Loncharich, and K. N. Houk, Asymmetric Induction in Nitrile Oxide [3+2] Dipolar Cycloadditions and Diels-Alder Reactions with Chiral Non-Racemic Acrylate Derivatives, *J. Org. Chem.* **1987**, 52, 2137.
34. D. P. Curran, D. Peck, B. D. Rogers, S. J. Hobbs, and R. M. Coates, Synthesis and Rearrangement of Alkoxyallyl Vinyl Ethers. Evidence for a Dipolar Transition State, *J. Am. Chem. Soc.* **1987**, 109, 1160.
33. D. P. Curran and D. Kim, Atom Transfer Cyclization of Simple Hexenyl Iodides. A Caution on the Use of Alkenyl Iodides as Probes for the Detection of Free Radical Intermediates, *Tetrahedron Lett.* **1986**, 27, 5821.
32. D. P. Curran and C. J. Fenk, Reduction of Highly Substituted Δ^2 -Isoxazolines. A Synthesis of Crispatic Acid, *Tetrahedron Lett.* **1986**, 27, 4865.
31. D. P. Curran, M.-H. Chen, and D. Kim, Atom Transfer Cyclization. A Novel Isomerization of Hexenyl Iodides to Cyclic Vinyl Iodides, *J. Am. Chem. Soc.* **1986**, 108, 2489.
30. D. P. Curran and S.-C. Kuo, The Tandem Radical Approach to Angular Condensed Cyclopentanoids. Total Synthesis of (\pm)-Silphiperfolene and (\pm)-Episilphiperfolene, *J. Am. Chem. Soc.* **1986**, 108, 1106.
29. D. P. Curran, M.-H. Chen, D. Leszczewski, R. Elliott, and D. Rakiewicz, Regioselectivity in Addition of Organocopper Species to Substituted 2*H*-Cyclopenta[b]pyranones, *J. Org. Chem.* **1986**, 51, 1612.
28. D. P. Curran and B. H. Kim, Reduction of Δ^2 -Isoxazolines. A Cycloadditive Approach to β,γ -Unsaturated Carbonyl Compound, *Synthesis* **1986**, 312.
27. D. P. Curran and M.-H. Chen, Radical-Initiated Polyolefinic Cyclizations in Condensed Cyclopentanoid Synthesis. Total Synthesis of (\pm)- $\Delta^{9(12)}$ Capnellene, *Tetrahedron Lett.* **1985**, 26, 4991.
26. D. P. Curran and C. J. Fenk. Thermolysis of Bis 2-[2-(Trimethylsilyl)oxy]propyl Furoxan (TOP-Furoxan). The First Practical Method for Intermolecular Cycloaddition of an In Situ Generated Nitrile Oxide with 1,2-Di- and Trisubstituted Olefins, *J. Am. Chem. Soc.* **1985**, 107, 6023.
25. D. P. Curran and D. M. Rakiewicz, Radical-Initiated Polyolefinic Cyclizations in Linear Triquinane Synthesis. Model Studies and Total Synthesis of (\pm)-Hirsutene, *Tetrahedron Symposium in Print on Radicals in Organic Synthesis*, (B. Geise, Ed.), *Tetrahedron* **1985**, 41, 3943.
24. D. P. Curran and D. M. Rakiewicz, The Tandem Radical Approach to Linear Condensed Cyclopentanoids. Total Synthesis of (\pm)-Hirsutene, *J. Am. Chem. Soc.* **1985**, 107, 1448.
23. D. P. Curran and P. B. Jacobs, Combination Claisen-Nitrile Oxide Annulation. A Strategy for Ring Construction with Rigid Stereocontrol Dictated by an Allylic Hydroxy Group, *Tetrahedron Lett.* **1985**, 26, 2031.
22. D. P. Curran and Y.-G. Suh, Substituent Effects on the Claisen Rearrangement. The Accelerating Effect of a δ -Donor Substituent, *J. Am. Chem. Soc.* **1984**, 106, 5002.

21. D. P. Curran and Y.-G. Suh, Synthetic Application of a Substituent Controlled Claisen Rearrangement. Facile Preparation of Intermediates for the Chiral Synthesis of Pseudomonic Acids, *Tetrahedron Lett.* **1984**, 25, 4179.
20. D. P. Curran, S. Scanga, and C. J. Fenk. Reduction of Substituted Δ^2 -Isoxazolines. The Synthesis of β -Hydroxy Acid Derivatives, *J. Org. Chem.* **1984**, 49, 3474.
19. D. P. Curran, J. Brill, and D. Rakiewicz, Reductive Conversion of Oximes to Ketones, *J. Org. Chem.* **1984**, 49, 1654.
18. D. P. Curran and S.-C. Kuo, Cyclization of o-Vinyl Anilides. A General Synthesis of Substituted Quinolines, *J. Org. Chem.* **1984**, 49, 2063.
17. D. P. Curran, A Short Synthesis of γ -Hydroxycyclopentenones, *Tetrahedron Lett.* **1983**, 24, 3443.
16. D. P. Curran, Reduction of Δ^2 -Isoxazolines-3. Raney Nickel-Catalyzed Formation of β -Hydroxy Ketones, *J. Am. Chem. Soc.* **1983**, 105, 5827.
15. D. P. Curran and D. M. Singleton, Reduction of Δ^2 -Isoxazolines-2. A Facile Synthesis of 3(2*H*)-Furanones, *Tetrahedron Lett.* **1983**, 24, 2079.
14. D. P. Curran, An Approach to the Enantiocontrolled Synthesis of Pseudomonic Acids via a Novel Mono-Claisen Rearrangement, *Tetrahedron Lett.* **1982**, 23, 4309.
13. D. P. Curran, Reduction of Δ^2 -Isoxazolines. A Conceptually Different Approach to the Formation of Aldol Adducts, *J. Am. Chem. Soc.* **1982**, 104, 4024.
12. B. M. Trost and D. P. Curran, Synthesis of *d*,1-Coriolin, *J. Am. Chem. Soc.* **1981**, 103, 7380.
11. B. M. Trost and D. P. Curran, On the Stereochemistry of the *bis-nor*-Wieland-Miescher Ketone, *Tetrahedron Lett.* **1981**, 4929.
10. B. M. Trost and D. P. Curran, On the Effect of Silyl Substitution at a Remote Center, *Tetrahedron Lett.* **1981**, 5023.
9. A. S. Kende, M. Logan King, and D. P. Curran, Total Synthesis of (+)-4'-Demethyl-4-epipodophyllotoxin by Insertion-Cyclization, *J. Org. Chem.* **1981**, 46, 2826.
8. B. M. Trost and D. P. Curran, Chemoselective Oxidation of Sulfides to Sulfones with Potassium Hydrogen Persulfate. *Tetrahedron Lett.* **1980**, 1287.
7. B. M. Trost and D. P. Curran, An Enantiodirected Cyclopentenone Annulation. Synthesis of a Useful Building Block for the Synthesis of Condensed Cyclopentanoid Natural Products, *J. Am. Chem. Soc.* **1979**, 101, 1857.
6. A. S. Kende, M. Benechie, D. P. Curran, P. Fludzinski, W. Swenton, and J. Clardy, The Dichlorovinylolation of Enolates, *Tetrahedron Lett.* **1980**, 3537.
5. A. S. Kende and D. P. Curran, Regiocontrol in Dihydrophenanthrene Synthesis. A Photochemical Total Synthesis of Juncusol, *J. Am. Chem. Soc.* **1979**, 101, 1857.
4. A. S. Kende and D. P. Curran, Total Synthesis of Juncusol, *Tetrahedron Lett.* **1978**, 3003.
3. A. S. Kende, D. P. Curran, Y-G. Tsay, and J.E. Mills, The Isobenzofuran Route to Anthracyclines, *Tetrahedron Lett.* **1977**, 3537.
2. A. S. Kende, L. S. Liebeskind, J. E. Mills, P. S. Rutledge, and D. P. Curran, Oxidative Benzyl-Aryl Coupling: A Biomimetic Entry to Podophyllin Lignan Lactones, *J. Am. Chem. Soc.* **1977**, 99, 7082.

1. D. P. Curran and D. Scholz, Approaches Towards the Total Synthesis of Brefeldin A *Monatshefte für Chemie*, **1977**, *108*, 1401.

BOOK AUTHORED

“Stereochemistry of Radical Reactions: Concepts, Guidelines, and Synthetic Applications,” with B. Giese and N. Porter, VCH, 1996.

BOOKS EDITED

“Organic Syntheses”, John Wiley & Sons, Hoboken, New Jersey
Volume 83, 2006.

“The Handbook of Fluorous Chemistry”, with J. Gladysz and I. Horváth, Wiley-VCH, 2004.

“Advances in Cycloaddition”, JAI Press, Greenwich, CN
Volume 1, 1988, Volume 2, 1990, Volume 3, 1993.

BOOK TRANSLATED

“Chiral Auxiliaries and Ligands in Asymmetric Synthesis,” author and co-translator, Jacqueline Seyden-Penne. Translated from the French “Synthèse et Catalyse Asymétriques”.
Publication in 1995 by Wiley-Interscience.

US PATENTS

- 34) D. P. Curran, H. Josien, D. Bom, Camptothecin Analogs and Methods of Preparation Thereof, U. S. Patent 7,271,159 B2, granted Sept. 18, 2007.
- 33) D. P. Curran, D. Bom, T. G. Burke, Camptothecin Analogs and Methods of Preparation Thereof, U. S. Patent 7,220,860 B2, granted May 22, 2007.
- 32) D. P. Curran, Z. Luo, Fluorous Triphasic Reaction and Separation Processes for the Generation of Enantioenriched Alcohols, Amines, Carboxylic Acids and Related Compounds, U. S. Patent 7,214,819, granted May 8, 2007.
- 31) D. P. Curran, T. G. Burke, L. Latus, W. Du, Highly Lipophilic Camptothecin Intermediates and Prodrugs and Methods of Preparation Thereof, U. S. Patent 7,064,206 B1, granted June 20, 2006.
- 30) D. P. Curran, T. G. Burke, W. Du, Camptothecin Intermediates and Prodrugs and Methods of Preparation Thereof, U. S. Patent 7,064,202 B1, granted June 20, 2006.
- 29) D. P. Curran, H. Josien, S.-B. Ko, Intermediates in the Synthesis of Camptothecin and Related Compounds and Synthesis Thereof, U. S. Patent 6,982,333 B2, granted Jan. 3, 2006.
- 28) D. P. Curran, H. Nakamura, I. Ryu, H. Matsubara, Fluorous Triphase and Other Multiphase Systems, U. S. Patent 6,897,331 B2, granted May 24, 2005.
- 27) D. P. Curran, Z. Luo, Fluorous Tin Compounds and Methods of Using Fluorous Tin Compounds, U. S. Patent 6,861,544 B1, granted March 1, 2005.
- 26) D. P. Curran, R. Read, Z. Luo, Fluorous Tagging Compounds and Methods of Increasing the Fluorous Nature of Compounds, U. S. Patent 6,825,043 B1, granted November 30, 2004.

- 25) D. P. Curran, D. Bom, and T. G. Burke, Camptothecin Analogs and Methods of Preparation Thereof, U. S. Patent 6,809, 103 B2, granted October 26, 2004.
- 24) D. P. Curran, S. Dandapani, Fluorous Nucleophilic Substitution of Alcohols and Reagents for use Thereof, U. S. Patent 6,806,357 B1, granted October 19, 2004.
- 23) D. P. Curran, O. de Frutos Garcia, Y. Oderaotoshi, Reaction and Separation Methods, U. S. Patent 6,749,756 B1, granted June 15, 2004.
- 22) D. P. Curran, H. Josien, D. Bom, T. G. Burke, Camptothecin Analogs and Methods of Preparation Thereof, U. S. Patent 6,743,917, granted June 1, 2004.
- 21) D. P. Curran, S. G. Weber, H. Nakamura, B. Linclau, L. Sun, Fluorous Triphase and Other Multiphase Systems, U. S. Patent 6,734,318, granted May 11, 2004.
- 20) D. P. Curran, A. E. Gabarda, Intermediates and Methods of Preparation of Intermediates in the Enantiomeric Synthesis of (20*R*) Homocamptothecins and the Enantiomeric Synthesis of (20*R*) Homocamptothecins, U. S. Patent 6,723,853, granted April 20, 2004.
- 19) D. P. Curran, Q. Zhang, Fluorous Phosphines and Phosphine Oxides, U.S. Patent 6,727,390, granted April 27, 2004.
- 18) D. P. Curran, H. Josien, S.-B. Ko, Intermediates in the Synthesis of Camptothecin and Related Compounds and Synthesis Thereof, U.S. Patent 6,620,937, granted September 16, 2003.
- 17) D. P. Curran, H. Josien, D. Bom, Camptothecin Analogs and Methods of Preparation Thereof, U.S. Patent 6,455,699, granted September 24, 2002.
- 16) D. P. Curran, H. Liu, Intermediates in the Synthesis of (\pm)-Camptothecin and Related Compounds and Synthesis Thereof, U.S. Patent 6,376,676, granted April 23, 2002.
- 15) D. P. Curran, W. Du, Synthesis of Silyl Camptothecins and Silyl Homocamptothecins, U.S. Patent 6,372,906, granted April 16, 2002.
- 14) D. P. Curran, D. Bom, Intermediates in the Synthesis of Camptothecin and Related Compounds and Synthesis Thereof, U.S. Patent 6,252,079, granted June 25, 2001.
- 13) D. P. Curran, H. Liu, Intermediates in the Synthesis of (\pm)-Camptothecin and Related Compounds and Synthesis Thereof, U. S. Patent 6,239,278, granted May 29, 2001.
- 12) D. P. Curran, H. Josien, and S.-B. Ko, Intermediates in the Synthesis of (+)-Camptothecin and Related Compounds and Synthesis Thereof, U. S. Patent 6,211,371, granted Apr. 3, 2001.
- 11) D. P. Curran, D. Bom, and T. Burke, Camptothecin Analogs and Methods of Preparation Thereof, U. S. Patent 6,207,832, granted March 27, 2001.
- 10) D. P. Curran, S. Hadida-Ruah, M. Hoshino, A. Studer, P. Wipf, P. Jeger, S.-Y. Kim, and R. Ferritto, Fluorous Reaction and Separation Systems, U.S. Patent 6,156,896, granted December 5, 2000.
- 9) D. P. Curran, H. Josien, and D. Bom, Camptothecin Analogs and Methods of Preparation Thereof, U.S. Patent 6,150,343, granted November 21, 2000.
- 8) D. P. Curran, H. Josien, D. Bom, and T. G. Burke, Camptothecin Analogs and Methods of Preparation Thereof, U.S. Patent 6,136,978, granted October 24, 2000.
- 7) D. P. Curran, H. Liu, M. P. Collis, Intermediates in the Synthesis of (\pm)-Camptothecin and Related Compounds and Synthesis Thereof, U.S. Patent, 6,034,243, granted March 7, 2000.
- 6) D. P. Curran, A. Studer, S. Hadida, M. Hoshino, R. Ferritto, S.-Y. Kim, P. Jeger, and P. Wipf, Fluorous Reaction and Separation Systems, U.S. Patent, 5,859,247, granted January 12, 1999.

- 5) D. P. Curran, A. Studer, S. Hadida, M. Hoshino, R. Ferritto, S.-Y. Kim, P. Jeger, and P. Wipf, Fluorous Reaction Systems, U.S. Patent, 5,777,121, granted July 7, 1998.
- 4) D. P. Curran, H. Liu, and M. Collis, Intermediates for the Production of Camptothecin and Related Compounds and Processes for the Preparation and Use Thereof, U.S. Patent, 5,744,605, granted April 28, 1998.
- 3) A. S. Kende, D. P. Curran, M. Logan King and N. Feldstein, Intermediates for the Production of Picropodophyllin and Related Compounds and Processes for the Preparation and Use Thereof, U.S. Patent 4,667,043, granted May 19, 1987.
- 2) A. S. Kende, D. P. Curran, M. Logan King and N. Feldstein, Intermediates for the Production of Picropodophyllin and Related Compounds and Processes for the Preparation and Use Thereof, U.S. Patent 4,391, 982, granted July 5, 1983.
- 1) A. S. Kende, D. P. Curran, M. Logan King and N. Feldstein, Intermediates for the Production of Picropodophyllin and Related Compounds and Processes for the Preparation and Use Thereof, U.S. Patent 4,294,763; granted July 31, 1981.

About three dozen patents are pending. Many US patents also have international counterparts.

INVITED LECTURESHIPS

Visiting Professor, Université Pierre et Marie Curie and Ecole Supérieure de Physique et de Chimie Industrielles (ESPCI), Paris, January-May, 2007 and January-July, 2008

“Ryudo” Visiting Professor, Tokyo Institute of Technology, May-July, 2007

Merck-Schuchardt Lecturer, Germany, July, 2003

Novartis Lecturer, Central Europe, October, 2002

Visiting Professor, University of Münster, May, 2002

Gassman Lecturer, University of Minnesota, March, 2001

Wilsmore Fellow, University of Melbourne, Australia, Dec. 2000 – Jan. 2001

Visiting Professor, Université de Paris-Sud, Chatenay, France, June, 1999

Visiting Professor, Universität Münster, June-July, 1998

Visiting Professor, Kyushu University, Fukuoka, Japan, September-December, 1996.

Fuson Visiting Professor, University of Illinois, Urbana, IL, September, 1995

Jan van der Gens Visiting Professor, University of Amsterdam, The Netherlands, June, 1995

Reichstein Professor, Universität Basel, Basel, Switzerland, July-August, 1994

Visiting Professor, Università di Firenze, Italy, May, 1992

Visiting Professor, Ecole Nationale Supérieure de Chimie, Paris, France, March, 1992

Visiting Professor, Université d’Aix-Marseille, Marseille, France, March, 1991

Visiting Professor, Universität Basel, Basel, Switzerland, June-October, 1990

Visiting Professor, Université de Paris-Sud, Orsay, France, October, 1987

Advanced Course on “Fluorous Chemistry”

University of Pierre and Marie Curie, April, 2006

Tokyo Institute of Technology, June, 2006

Advanced Course on “Radical Reactions in Organic Synthesis”

University of Michigan, June, 2000

Kyushu University, September, 1996

Swedish Academy of Sciences, May, 1996

Albemarle, Inc., Louisiana, April, 1996

University of Amsterdam, June, 1995

Sandoz, Inc, East Hanover, NJ, November 1993

Union Carbide, Inc., Charleston, WV, February 1993

Università di Firenze, May, 1992

University Université d’Aix-Marseille, March, 1991

University of Basel, June, 1990

Du Pont Corp., Wilmington, DE, February, 1990

Le 3eme Cycle en Chimie Organic, September, 1989, Champéry, Switzerland
Wyeth-Ayerst, March, 1989, Princeton, NJ
The Upjohn Company, May, 1988, Kalamazoo, MI

Plenary and Invited Lectures

(Meetings and Conferences)

Summer School in Organic Chemistry, Tarragona, Spain, July, 2008
13th Lilly Foundation Scientific Symposium, Madrid, Spain, April, 2008
ACS Fluorine Chemistry Award Symposium, New Orleans, LA, April, 2008
Mosher Award Symposium, Santa Clara, CA, January, 2008
2nd International Symposium on Fluorous Technology (ISOFT-2), Yokohama, Japan, July, 2007
New Wave in Organic Synthesis, Osaka Prefecture University, Osaka, Japan, July, 2007
Ku wajima Symposium, Nagasaki, Japan, June, 2007
Journée “Max Mousseron”, University of Montpellier II, Montpellier, France, April 2007
International Symposium on “Organic Chemistry: Present and Future” in honor of Prof. Léon Ghosez, Louvain-la-Neuve, Belgium, April, 2007
Southampton Synthesis Symposium, January, 2007, Southampton, England
ACS Pittsburgh Award Address, Pittsburgh, PA, November, 2006
Frontiers in Organic Chemistry Symposium, Univ. of Illinois, Urbana, IL, October, 2006
Symposium on Medicinal and Synthetic Chemistry, Torquay, England, October, 2006
Science2006, University of Pittsburgh, Pittsburgh, PA. Oct., 2006
Tetrahedron Prize Symposium, ACS Meeting, San Francisco, CA, Sept., 2006
ACS Regional Meeting, Symposium on Recent Advances in Synthetic Methodology, Milwaukee, WI, June, 2006
Royal Society of Chemistry Symposium on “High Throughput Chemistry and New Technology”, London, England, May, 2006
Morely Medal Address, Cleveland, OH, May 2006
Pacifichem, Symposium on Organic Free Radicals, Honolulu, HI, December, 2005
Pacifichem, Symposium on Alternative Reaction Media, Honolulu, HI, December, 2005
ACS Meeting, Symposium on Recent Advances in Fluorous Chemistry, Washington, D. C., August, 2005
ACS Meeting, Symposium on Fluoroorganic Chemistry, Washington, D. C., August, 2005
International Society of Heterocyclic Chemistry Meeting, Palermo, Italy, August, 2005
1st International Symposium on Fluorous Technology (ISOFT-1), Bordeaux, France, July, 2005
Bernd Giese 65th Birthday Symposium, Basel, Switzerland, June, 2005
22nd H. C. Brown Symposium, Purdue Univ., West Lafayette, IN, April, 2005

ACS Meeting, Symposium on Creativity in Organic Synthesis (Bader 80th Birthday), San Diego, CA, March 2005

Swiss Chemical Soc., Meeting, Bern, Switzerland, March, 2005

Creation of Integrated EcoChemistry Symposium, Osaka, Japan, January, 2005

Noguchi Fluorous Symposium, Tokyo, Japan, January, 2005

Green Solvents for Synthesis, Bruschal, Germany, October, 2004

Norwegian Chemical Society Meeting, Oslo, Norway, September, 2004

Gulf Coast Chemistry Conference, Pensacola, FL, September, 2004

ACS National Meeting, Philadelphia, PA, August, 2004

Reactions and Processes Gordon Conference, Newport, RI, July, 2004

9th ISOFR Conference, Corsica, France, June, 2004

Japan Combinatorial Chemistry Forum, Osaka, Japan, April, 2004

Pharmaceutical Society of Japan Meeting, Osaka, Japan, March 2004

Gordon Conference on Facilitated Chemical Synthesis, Ventura Beach, CA, March, 2004

CHI Advanced Library Synthesis Meeting, San Diego, CA, February, 2004

Netherlands Workshop on Combinatorial Chemistry, Amsterdam, 2003

ACS Regional Meeting, Symposium on Industrial Innovation, Pittsburgh, PA, Oct. 2003

W. S. Johnson Symposium, Stanford, CA, September, 2003

ACS Meeting, Symposium on Clean Methods of Catalysis, New York, NY, August, 2003

IUPAC Symposium on Organic Syntheses, Ottawa, Canada, August, 2003

Organofluorine Chemistry in the Sciences, Burgenstock, Switzerland, July, 2003

Rhodia-Chirex Process Symposium, Amelia Island, FL, May, 2003

Novel Technologies for Future Manufacturing, Manchester, England, May, 2003

Symposium on Drug Discovery, University of Newcastle, England, May, 2003

Pfizer Global R&D Symposium, Groton, CT, April, 2003

LabAutomation Conference, San Diego, CA, February, 2003

5th Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, CO, January, 2003

A.S. Kende Symposium, University of Rochester, NY, October, 2002

Herbert C. Brown 90th Birthday Symposium, Boston, MA, August, 2002

EUCHEM Mtg. on Organic Free Radicals, University of York, U.K., July, 2002

So. African Chemical Inst. Convention, Univ. of Port Elizabeth, South Africa, July, 2002

French American Chemical Society Mtg., St. Malo, France, June, 2002

Trends in High-Throughput Organic Synthesis, Uppsala, Sweden, April, 2002

ACS National Meeting, National Products Combinatorial Chemistry Symposium, Orlando, FL, April, 2002

Florida Heterocyclic Conference, Gainesville, FL, March, 2002

COST Symposium, Barcelona, Spain, October, 2001

SCI Meeting, London, England, October, 2001

Bayer Science Forum, Pittsburgh, PA, October, 2001

University of Pittsburgh Drug Discovery Minisymposium, September, 2001

Gordon Conference on Free Radical Chemistry, Holderness, NH, July, 2001
Society of Peptide Chemistry Symposium, San Diego, CA, June, 2001
Barry Trost 60th Birthday Symposium, Stanford, CA, June, 2001
ACS National Meeting, Symposium on New Methods in Catalysis, San Diego, CA, April, 2001
ACS National Meeting, Symposium on Parallel Synthesis, San Diego, CA, April, 2001
Winter Organofluorine Meeting, St. Pete's Beach, FL, January, 2001
Symposium on Parallel Synthesis, Pacificchem 2000, Honolulu, HI, December, 2000
MCR2000, Munich, Germany, October, 2000
ACS Milwaukee Section Meeting, Milwaukee, WI, October, 2000
Esther and Bingham J. Humphrey Memorial Symposium, Univ. of Vermont, Sept. 2000
Robotics in Synthesis, Osaka, Japan, July, 2000
IUPAC Symposium, Warsaw, Poland, July, 2000
Gomberg•2000, A Century of Radical Chemistry, Ann Arbor, MI, June, 2000
Bernd Giese 60th Birthday Symposium, Basel Switzerland, June, 2000
National Medicinal Chemistry Symposium, Lawrence, KA, June, 2000
ACS Prospectives in Combinatorial Chemistry, Tucson, AZ, April, 2000
Nichols Award Symposium, New York, NY, April, 2000
ACS Creative Work in Organic Synthesis Symposium, San Francisco, CA, March, 2000
"The Camptothecins: Unfolding Their Anticancer Potential", Washington, D.C., March, 2000
ACS 218th National Meeting, New Orleans, LA, August, 1999
Keith Ingold 70th Birthday Symposium, Ottawa, Canada, July, 1999
French Meeting on Organofluorine Chemistry, Chatenay-Malabry, France, May, 1999
Organic Chemistry Meeting, Uppsala University, Stockholm, Sweden, May, 1999
S.I.S.O.U.M. Symposium, University of Montreal, Canada, April, 1999
"Visions in Chemistry Symposium", Rhone-Poulenc Rohrer, Collegeville, PA, April, 1999
ACS Meeting, "Brown Award Symposium for B. M. Trost", Anaheim, California, March, 1999
Winter Conference on Medicinal and Bioorganic Chemistry, Steamboat Springs, Colorado, January, 1999
Astra Symposium, Loughborough, England, November, 1998
Eighth Symposium on the Latest Trends in Organic Synthesis, Gainesville, Florida, October, 1998
IBC Conference on Combinatorial Chemistry, Washington, D.C., September, 1998
Ischia Advanced Summer School of Organic Chemistry, Ischia, Italy, September, 1998
ACS National Meeting, Symposium on Recent Advances in Organofluorine Chemistry, Boston, August, 1998
EUCHEM Meeting on Organic Radicals, Rome, Italy, July, 1998
Belgian Organic Synthesis Symposium, Louvain-la-Neuve, Belgium, July 1998
Radical Minisymposium, Bologna, Italy, July, 1998
Lake Tahoe Symposium on Combinatorial Chemistry, January, 1998
Frontiers in Oncology Conference, Grand Cayman, October, 1997

Concepts in Organic Chemistry, ACS Satellite Symposium, Washington, DC, October, 1997

“Le Troisieme Cycle” Lectures, Switzerland, September, 1997

Heterocycles Gordon Conference, New Hampshire, June, 1997

MARM Meeting, Pace University, May, 1997

American Chemical Society Meeting, Symposium on Radical Polymerization, April, 1997

Institute for Advanced Material Studies Symposium, Fukuoka, Japan, October, 1996

Chemical Society of Japan Annual Meeting, Fukuoka, Japan, October, 1996

NSF Workshop, Squam Lake, NJ, July, 1996

Canadian Chemical Society Meeting, Symposium on Reactive Intermediates, St. John’s, NF, June, 1996

Belgian Meeting on Organic Synthesis (BOSS), Ghent, Belgium, July, 1996

50th Anniversary Symposium of the Korean Chemical Society, Seoul, Korea, May, 1996

7th International Organic Chemistry Symposium, Seoul, Korea, May, 1996

2nd Technical Conference of Wyeth-Ayerst and The Shanghai Institute of Organic Chemistry, Princeton, NJ, October, 1995

Symposium on Radiolabeled Pharmaceuticals, Pearl River, NY, September, 1995

Symposium on Organic Chemistry, Proctor and Gamble, Miami Valley, OH, August, 1995

NSF Synthetic Workshop, Tomales Bay, CA, July, 1995

Gordon Conference on Natural Products, New England College, Henniker, NH, July, 1995

12th Biennial Lakeland Meeting, Grasmere, England, May, 1995

Symposium on “Progress in Organic Chemistry,” Louvain-la-Neuve, Belgium, January, 1995

International Forum on Chemistry of Functional Organic Chemicals, Tokyo, Japan, November, 1994

6th International Kyoto Conference on New Aspects of Organic Synthesis, Kyoto, Japan, November, 1994

Symposium on “Radicals in Chemistry and Biology”, Chapel Hill, NC, September, 1994

6th Brazilian Meeting in Organic Synthesis, São Paulo, Brazil, September, 1994

NSF Synthetic Workshop, Greensboro, NC, July, 1994

“Symposium on Synthetic Organic Chemistry”, Midland, MI, June, 1994.

6th EUCHEM Meeting on Free Radicals, Champéry, Switzerland, August, 1994

Mona Symposium, Kingston, Jamaica, January, 1994

“Meeting Synthetic Challenges of the 90s” (Speckamp 60th Birthday Symposium), Amsterdam, Holland, December, 1993

ACS Southeastern Regional Meeting, Johnson City, TN, October, 1993

Gordon Conference on Reactions and Processes, New Hampton, NH, July, 1993.

Gordon Conference on Free Radicals, New Hampton, NH, July, 1993.

Bürgenstock Conference on Stereochemistry, Switzerland, May, 1993

Wiley Symposium, University of Guelph, Canada, April, 1993

60th Anniversary of the Chinese Chemical Society, Symposium on Organic and Inorganic Chemistry, Taipei, Taiwan, November, 1992

Ischia Advanced School of Organic Chemistry Conference, Ischia, Italy, September, 1992
Gulf Coast Organic Chemistry Conference, Pensacola, FL, September, 1992
18th International Symposium of the Chemistry of Natural Products, Strasbourg, France, August, 1992
3rd Meeting of the French-American Chemical Society, Aussois, France, June, 1992
Mid-East Regional ACS Meeting, Cincinnati, OH, May, 1992
Meeting of the French Chemistry Society, Paris, France, March, 1992.
13th International Congress of Heterocyclic Chemistry, Corvallis, OR, August, 1991
XIIth Conference of the Organic Chemistry Division of the Royal Australian Chemical Institute, Brisbane, Queensland, Australia, July, 1991
National Organic Symposium, Minneapolis, MN, June, 1991
NSF Workshop on Reactive Intermediates, Santa Barbara, CA, May, 1991
ACS Princeton Fall Organic Chemistry Symposium, Princeton, NJ, November, 1990
ACS National Meeting, "Symposium on Heterocyclic Chemistry", Washington, DC, August, 1990
Gordon Conference on Heterocyclic Compounds, New Hampton, NH, July, 1990
Organic Chemistry Day Symposium, University of Missouri, Columbia, MO, April, 1990
Symposium on "Carbon-Centered Radicals in Synthesis", Rhône-Poulenc Co, Research Triangle Park, NC, January, 1990.
Advanced Colloquium on Organic Synthesis, Namur, Belgium, January, 1990
4th Nozaki Conference, Kyoto, Japan, July, 1989
Royal Society of Chemistry Symposium on "Synthesis in Organic Chemistry", Oxford, England, July, 1989
ACS Northwest Section "Linus Pauling Award Symposium", Tacoma, WA, December, 1988
New York Academy of Sciences Symposium Series, New York, NY, December, 1988
Joint U.S.-Korea Symposium on "New Methods in Organic Synthesis", Seoul, Korea, November, 1988
ACS Rochester Section Meeting, "Symposium on Recent Advances in Synthetic Organic Chemistry", Rochester, NY, November, 1988
G. D. Searle Symposium on "Advances in Free Radical Chemistry", Chicago, IL, October, 1988
ACS National Meeting, "Cope Symposium", Los Angeles, CA, September, 1988
ACS National Meeting, "Nitroalkanes in Organic Synthesis", Los Angeles, CA, September, 1988
5th International Symposium on Free Radicals, Zürich, Switzerland, September, 1988
Stereochemistry Gordon Conference, Newport, RI, July, 1988
62nd Roussel-Uclaf "Tables Rondes" on Free Radicals in Organic Synthesis, Paris, France, June, 1988
22nd Reaction Mechanisms Conference, Pittsburgh, PA, June, 1988
ACS Central Regional Meeting, "Symposium on New Organic Reactions", Morgantown, WV, June, 1988
ACS Mideast Regional Meeting, "Symposium on Advances in Organic Synthesis", Harrisburg, PA, June 1988

NATO Advanced Workshop on "Free Radicals in Synthesis and Biology", Milan, Italy, May, 1988
ACS National Meeting, "Symposium in Honor of Cheves Walling", New Orleans, LA, September, 1987
Free Radicals Gordon Conference, Newport, RI, August, 1987
ACS Central Regional Meeting, "Advances in Free Radical Chemistry Symposium", Columbus, OH, June, 1987
Philadelphia Organic Chemist's Club Meeting, Philadelphia, PA, October, 1986
ACS National Meeting, "Advances in Free Radical Chemistry Symposium", Petroleum Division, Anaheim, CA, August, 1986
Reactions and Processes Gordon Conference, New Hampton, NH, July, 1986
ACS Central Regional Meeting, Paul Bloch Symposium, Bowling Green, OH, June, 1986
2nd Recent Trends in Organic Synthesis Symposium, Blacksburg, VA, May, 1986
1986 Lilly Organic Synthesis Symposium, Indianapolis, IN, March, 1986
XI Conference on Isoprenoids, Warsaw, Poland, September, 1986
NSF Synthetic Workshop, Holderness, NH, July, 1984
Recent Trends in Organic Synthesis Symposium, Blacksburg, VA, May, 1984
Organic Synthesis Workshop, Syracuse, NY, August, 1983

INVITED SEMINARS

(University and Industry)

2008

University of Dortmund, Germany
University of Aachen, Germany
University of Münster, Germany
Institut Català d'Investigació Química (ICIQ), Tarragona, Spain
Aarhus University, Denmark

2007

The Australian National University
Canberra, Australia
Tokyo Institute of Technology, Tokyo,
Japan (Ryudo Lecture)
Toyama University, Toyama, Japan
Shizuoka University, Shizuoka, Japan
University of Tokyo, Japan
Gakushuin University, Tokyo, Japan
Tokushima Bunri University, Tokushima,
Japan
Ohtsuka Pharmaceutical Co., Tokushima,
Japan
Kyushu University, Fukuoka, Japan
Fuji Film Company, Odawara, Japan

Tsukuba University, Tsukuba, Japan
Okayama Science University, Okayama,
Japan
Université d'Aix-Marseille, Marseille,
France
University of Fribourg, Switzerland
École Normale Supérieure, Paris, France,
Louis Pasteur Lecturer
École Polytechnique, Paliseau, France
Université Pierre et Marie Curie, Paris,
France
École Supérieure de Physique et de Chimie
Industrielles (ESPCI), Paris
Institut de Chimie et Substances Naturelles,
Gif-sur-Yvette, France
Université Louis Pasteur, ISIS, Strasbourg,
France
University of Valencia, Spain
College de France, Paris, France
Queen Mary University, London, UK

2006

Oakland University, Rochester, MI, Isaac
Eliezel Lecturer
Youngstown State Univ., Youngstown, OH
Invitrogen, Eugene, OR
Vanderbilt Univ., Nashville, TN

2005

Air Products, Bethlehem, PA
Kaneka Co., Osaka, Japan
Daikin Co., Osaka, Japan
Case Western Univ., Cleveland, OH,
Frontiers in Chemistry Lecturer,
Univ. of Oklahoma, Norman, OK
Karcher-Barton Lecturer
DuPont, Wilmington, DE
Kent State University, Kent, OH

2004

Cornell University, Ithaca, NY
New York University, NY, NY
Sumitomo Chemical Co., Osaka, Japan
Niigata University, Japan
Kyoto University, Japan
Osaka University, Japan
Osaka Prefecture University, Japan
Caltech, Pasadena, CA
University of Arizona, Tucson, AZ
Southern Illinois University, Carbondale, IL,
Arnold Lecturer

2003

University of Kansas, Lawrence, KA, Dains
Lecturer
College of Wooster, Wooster, OH
Juniata College, Huntingdon, PA
Merck, West Point, PA
Aventis, Frankfurt, Germany
Texas Tech, Lubbock, Texas, Henry J. Shine
Lecturer
Technical University of Denmark,
Copenhagen, Lundbeck Lecturer
Lundbeck, Copenhagen, Denmark
University of Munich, Germany
University of Heidelberg, Germany
Technical University of Darmstadt,
Germany

University of Göttingen, Germany
Berlin Free University, Germany
Bristol-Myers Squibb, Syracuse, NY
University of British Columbia, Vancouver,
Canada

2002

Oklahoma State University, Otto M. Smith
Lecturer
University of Colorado, Boulder, CO, Roche
Lecturer
Queen's University, Kingston, Canada, BCI
Distinguished Lecturer
Washington & Jefferson University,
Washington, PA
Budapest University of Technology and
Economics, Hungary
Prague Institute of Chemical Technology,
Prague, CZ
Slovak University of Technology,
Bratislava, SK
Merck, Rahway, NJ
Bayer, New Haven, CT
Kodak, Rochester, NY, Weissberger-
Williams Lecturer
Bristol-Myers Squibb, Wallingford, CT
University of Colorado, CO
SASOL, So. Africa
University of Cape Town, So. Africa
University of Marburg, Germany
University of Muenster, Germany
Abbott Lab., No. Chicago, IL
Boston University, MA

2001

University of Western Ontario, Fred Pattison
Lecturer
3-Dimensional Pharmaceuticals, New Jersey
Amgen, Thousand Oaks, CA
Astra-Zeneca, Loughborough, England
Astra-Zeneca, Gothenberg, Sweden
Shanghai Inst. of Organic Chemistry, China
KAIST, Teijon, Korea
POSTECH, Pohang, Korea
Wayne State University, Detroit, MI

2000

University of Melbourne, Australia
New South Wales University, Australia
Griffith University, Australia
Adelaide University, Australia
Wollongong University, Australia
Purdue University, West Lafayette, IN
University of Rochester, Rochester, NY
Caltech, Pasadena, CA
University of Muenster, Muenster, Germany
Aldrich Chemical Co., Milwaukee, WI

1999

Université de Rennes, France
Université de Reims, France
Université de Paris XI, Jussieu, France
Université de Marseille, France
Université de Lyon, France
Université de Pierre et Marie Curie, Paris,
France
Université de Paris VI, Orsay, France
GIF Institute, Orsay, France
Université de Paris VI, Catenay-Malabry,
France
Uppsala University, Stockholm, Sweden
Brigham Young University, Provo, Utah
University of Wisconsin, Madison, WI
R. W. Johnson, Inc., Spring House, PA
University of Dortmund, Germany
3M, Minneapolis, MN
Ohio State, Columbus, OH
Dow Agrochemicals, Indianapolis, IN
University of Pennsylvania, Philadelphia,
PA
Michigan State, Lansing, MI
Wright State, Dayton, OH
University of Toledo, OH

1998

University of Strathclyde, Glasgow,
Scotland
Allegheny College, Meadville, PA
Bayer, Inc., West Haven, CT
Novartis, Inc., Short Hills, NJ
BASF, Ludwigshafen, Germany
Bayer, Inc., Wuppertal, Germany
Max Plank Institute, Mülheim, Germany

University of Aachen, Germany
University of Brawnschweig, Germany
Technical University, München, Germany
Bristol-Myers Squibb, Princeton, NJ
University of Buffalo, Buffalo, NY
Merck, Rahway, NJ
Albany Molecular Research, Albany, NY
Abbott Laboratories, Chicago, IL
University of Nebraska, Lincoln, NE
Scripps Institute, LaJolla, CA
University of California, Berkeley, CA

1997

Bio-Méga Lecturer, University of Alberta,
Edmonton, Canada
Bio-Méga, Inc., Laval, Canada
University of Kentucky, Lexington, KY
Elf Atochem, Philadelphia, PA
Eli Lilly, Indianapolis, IN
University of Basel, Switzerland
University of Fribourg, Switzerland
University of Neuchatel, Switzerland
University of Geneva, Switzerland
Firmenich, Inc., Geneva, Switzerland
DuPont Inc., Wilmington, DE
Schering Plough, Inc., NJ
Proctor and Gamble, Norwich, NY
Merck-Frosst Lecturer, University of
Toronto, Ontario, Canada

1996

Oxford Diversity, Oxford, England
Niigata University, Niigata, Japan
Tokyo College of Pharmacy, Tokyo, Japan
Yamaguchi University, Japan
University of Tokyo, Japan
Tokyo Institute of Technology, Japan
Osaka University, Japan
Kao Corporation, Japan
Versacor Co., San Francisco, CA
Sepracor Co., Marlborough, MA
CombiChem, San Diego, CA
Consiglio Nazionale delle Ricerche,
Bologna, Italy
University of Uppsala, Sweden
University of Copenhagen, Denmark

Université de Notre Dame de la Paix,
Namur, Belgium
Pfister Lecturer, MIT, Cambridge, MA
Parke-Davis, Ann Arbor, MI
Bristol-Myers Squibb, New Brunswick, NJ
Merck, West Point, PA
University of Tennessee, Knoxville, TN
Phillips Lecturer, Haverford College,
Philadelphia, PA

1995

University of Arizona, Tucson, AZ
Bristol-Myers Squibb, Wallingford, CT
ETH, Zürich, Switzerland
University of Marburg, Germany
Technical University of Berlin, Germany
University of Leiden, Holland
University of Amsterdam, Holland
University of Groningen, Holand
Wesleyan University, CT
Consiglio Nazionale delle Ricerche,
Bologna, Italy
University of Nottingham, England
Fuson Lecturer, University of Illinois
Ethyl Corporation, Baton Rouge, LA
Smith Kline Beecham, Spring House, PA
Syntex Lecturer, Colorado State University,
Fort Collins, CO
Organic Synthesis Lecturer, Notre Dame
University, South Bend, IN

1994

Sandoz Inc., Basel, Switzerland
Reichstein Lecturer, University of Basel,
Basel, Switzerland
ETH, Zürich, Switzerland
Columbia University, NY
Sloan Kettering Hospital, NY
Ciba-Giegy, Basel Switzerland
Scripps Research Institute, San Diego, CA
Kyoto University, Japan,
Okayama University, Japan
Osaka University, Japan
Pfizer, Inc., Nagoya, Japan
Mie University, Japan
Chiba University, Japan
Tohoku University, Sendai, Japan

Cubist Pharmaceuticals, Cambridge, MA
McElvain Lecturer, University of
Wisconsin, Madison, WI
Iowa State University, Ames, IA
National Research Council, Ottawa, Canada
University of West Virginia, Morgantown,
WV
Boehringer-Ingelheim Pharmaceuticals,
Danbury, CT
Lehigh University, Lehigh, PA
Merck, Inc., Rahway, NJ
Boston College, Chestnut Hill, MA
Marshall University, Huntington, WV
Clarion College, Clarion, PA
Miles Lecturer, University of New
Hampshire, Durham, NH

1993

Miles, Inc., West Haven, CT
Yale University, New Haven, CT
Abbott Pharmaceuticals, North Chicago, IL
Syntax, Inc., San Francisco, CA
Monsanto, St. Louis, MO
University of Puerto Rico, San Juan, PR
Stanford University, Palo Alto, CA
Vanderbilt University, Nashville, TN
Rice University, Houston, TX
Texas A&M, College Station, TX
University of Texas, Austin, TX
University of Chicago, IL
Anaquest, Murray Hill, NJ
University of Illinois, Chicago Circle, IL
Lilly, Inc., Tippecanoe, IN

1992

Glaxo Inc., Research Triangle, NC
FMC Inc., Princeton, NJ
Lederle Laboratories, Pearl River, NY
Allegheny College, Meadville, PA
Villanova University, Philadelphia, PA
New York University, NY
National Sun Yat-Sen University, Tiawan
National Tsing-Hua University, Tiawan
Rohm and Haas, Spring House, PA
Eastman Kodak, Rochester, NY
Norwich Eaton, Norwich, NY
Université de Montpellier, France

Université de Pierre et Marie Curie, Paris,
France

University of Basel, Switzerland

Université Paris-Sud, Orsay, France

Université Paris VI, France

Université de Lyon, France

Ecole Nationale Supérieure de Paris, France

Università di Firenze, Firenze, Italy

Università di Roma, Roma, Italy

Università di Milano, Milano, Italy

Università di Perugia, Perugia, Italy

Università di Ferrara, Ferrara, Italy

Università di Bologna, Bologna, Italy

Sandoz, Inc, Vienna, Austria

University of Maryland, MD

Ohio Wesleyan, OH

1991

Bioméga Lecturer

– Bioméga, Laval, Canada

– University of Sherbrooke, Canada

Merck Lecturer, Hope College, Midland, MI

Wyeth-Ayerst, Princeton, NJ

Hoescht-Roussel, NJ

Ciba Geigy, Summit, NJ

Monsanto, St. Louis, MO

Union Carbide, Charleston, WV

Bristol Myers Squibb, CT

Flinders University, Australia

University of Adelaide, Australia

University of Melbourne, Australia

Monash University, Australia

University of New South Wales, Sydney,
Australia

Australian National University, Canberra,
Australia

Hofmann La Roche, Nutley, NJ

Akron ACS Section, OH

Franklin & Marshall College, Lancaster, PA

Stoneybrook University, NY

R & W Johnson, Inc., NJ

McMaster University, Ontario, CA

1990

Smith Kline Beecham, Great Burough,
England

Smith Kline Beecham, The Frythe, England

Weyth Ayerst, Taplow, England

Universität Zürich, Switzerland

ETH, Zürich, Switzerland

Université de Lausanne, Switzerland

Université de Genève, Switzerland

Université de Louvain-La-Neuve, Belgium

Université de Rennes, France

ESPCI, Paris, France

University of California, Irvine, CA

University of Basel, Switzerland

ETH, Zürich, Switzerland

University of Zürich, Switzerland

Louvain La Neuve, Belgium

Weyth-Ayerst, Taplow, England

SmithKline, London, England

Hofmann LaRoche, Basel, Switzerland

Wayne State University, Detroit, MI

MIT, Cambridge, MA

Universität Dortmund, Germany

Universität Münster, Germany

University of Missouri, Columbia, MO

University of Florida, Gainesville, FL

Dow Chemical Co., Midland, MI

University of Virginia,

Charlottesville, VA

University of Toronto, Canada

University of Ottawa, Canada

Northwestern University, Chicago, IL

Burroughs Welcome, Research Triangle
Park, NC

University of Missouri, Columbia, MO

American Cyanamid, Princeton, NJ

ICI, Willmington, DE

1989

ETH, Zürich, Switzerland

Ciba-Geigy, Basel, Switzerland

Univ. of California at Berkeley, CA

Harvard University, Cambridge, MA

University of Tokyo, Japan

Tohoku Univ., Sendai, Japan

Kyoto Univ., Kyoto, Japan

Tokyo Inst. of Tech., Japan

Sumitomo Co., Osaka, Japan

Nagoya Univ., Nagoya, Japan

Okayama Univ., Okayama, Japan
Osaka Univ., Osaka, Japan
Pfizer, Co., Kent, England
Shell, Sittingbourne, England
University of Freiburg, Germany
University of Colorado, Boulder, CO
DuPont, Wilmington, DE
University of Montreal, Canada
Iowa State University, Des Moines, IO
Merck Co., Rahway, NJ
Procter and Gamble, Cincinnati, OH
University of Maryland, College Park, MD
University of Iowa, Iowa City, IO
3M, Minneapolis, MN
University of Minnesota,
Minneapolis, MN

1988

Yale University, New Haven, CN
Princeton University, NJ
Tennessee Eastman, TN
Lucky Co., DaeWoo, Korea
Sandoz, Inc., East Hanover, NJ
Florida State University, Tallahassee, FL
Merck Frosst, Montreal, Canada
Roussel-Uclaf, Paris, France
Technische Hochschule Darmstadt,
West Germany
University of Pittsburgh, Johnstown, PA
Lederle Laboratories, Pearl River, NY
Monsanto Co., St. Louis, MO
University of California at Irvine,
Irvine, CA
University of Chicago, Chicago, IL
SUNY Albany, Albany, NY
University of Waterloo, Ontario, Canada
Ayerst Pharmaceuticals, Princeton, NJ
Schering Corporation, Bloomfield, NJ

1987

Université de Grenoble, Grenoble, France
Université de Reims, Reims, France
Ecole Normale Supérieure, Paris, France
Université de Gent, Gent, Belgium
Université de Paris-Sud, Orsay, France
Université de Rennes, Rennes, France

Université de Strasbourg, Strasbourg, France
Université de Marseille, Marseille, France
Case Western Reserve University,
Cleveland, OH
University of Colorado, Boulder, CO
Stanford University, Stanford, CA
University of Utah, Salt Lake City, UT
University of Wisconsin, Madison, WI
Emory University, Atlanta, GA
University of Texas, Austin, TX
Texas A&M University,
College Station, TX
University of Delaware, Newark, DE
Merck Laboratories, West Point, PA
Warner Lambert, Inc., Ann Arbor, MI

1986

Cornell University, Ithaca, NY
Duke University, Durham, NC
Syracuse University, Syracuse, NY
McNeil Pharmaceuticals,
Spring Garden, PA
Ayerst Laboratories, Princeton, NJ
Ohio State University, Columbus, OH
Merck Laboratories, Rahway, NJ
Smith Kline, Philadelphia, PA
Southern Illinois University,
Carbondale, IL
University of Virginia,
Charlottesville, VA
Ortho Pharmaceuticals, Raritan, NJ
University of Toledo, Toledo, OH
Hoffman LaRoche, Nutley, NJ
Duquesne University, Pittsburgh, PA
Allegheny College, Meadville, PA
Kent State University, Kent, OH

1985

University of Illinois, Urbana, IL
University of Chicago, Chicago, IL
SUNY Buffalo, Buffalo, NY
Kodak, Inc., Rochester, NY
University of California at Los Angeles, Los
Angeles, CA
University of California at Santa Barbara,
Santa Barbara, CA

University of California at Irvine,
Irvine, CA
University of Michigan, Ann Arbor, MI
Upjohn Pharmaceutical Company,
Kalamazoo, MI
Abbott Laboratories, North Chicago, IL
Eli Lilly Co., Indianapolis, IN
University of Akron, Akron, OH
Pfizer, Inc., Groton, CN
Colorado State University,
Fort Collins, CO
University of California at Riverside,
Riverside, CA
Twente University of Technology,
Enschede, The Netherlands
University of Amsterdam, Amsterdam, The
Netherlands
University of Würzburg, Würzburg, West
Germany
University of Colorado, Boulder, CO
University of Indiana, Bloomington, IN
Schering Corporation, Bloomfield, NJ
Hope College, Holland, MI
Kalamazoo College, Kalamazoo, MI
Calvin College, Grand Rapids, MI

1984
Bucknell University, Lewisburg, PA
Bowling Green University, Bowling Green,
OH
Princeton University, Princeton, NJ
Squibb Institute, Princeton, NJ
Pennsylvania State University, State
College, PA
Stuart-ICI Pharmaceuticals, Wilmington, DE

University of West Virginia, Morgantown,
WV
Michigan State University, Lansing, MI
Ciba-Geigy Inc., Summitt, NJ
University of Cincinnati, Cincinnati, OH
Miami University, Miami, OH
University of Innsbruck, Innsbruck, Austria
University of Konstanz, Konstanz, FRG

1983

National Institutes of Health,
Bethesda, MD
Pennwalt Inc., Rochester, NY
University of Rochester, Rochester, NY
Lederle Laboratories, Pearl River, NY
Rensselaer Poly. Inst., Troy, NY
Sterling-Winthrop, Albany, NY

1982

Sandoz, Inc., East Hanover, NJ

Contributed Presentations

30th IUPAC Congress, September, 1985,
Manchester, England. Recipient of an
NRC travel grant.
IUPAC Organic Synthesis Symposium,
August, 1984, Freiburg, West
Germany. Recipient of an NSF travel
grant.
Heterocycles Gordon Conference, New
Hampton, NH, July 1984.
ACS Meeting, St. Louis, April, 1984.
ACS Meeting, Kansas City, Sept., 1982 (2).
ACS Meeting, Miami Beach, Sept., 1978.
ACS Meeting, Chicago, August, 1977.

CURRENT RESEARCH ASSOCIATES**Postdoctorals:**

Dr. Maria Jiménez-Hopkins, Univ. of Kansas, 2007

Dr. Shau-Hua Ueng, 2009

Graduate Students:

Reena Bajpai	5th year
Bin Sui	5th year
Kai Zhang	4th year
Jared Moretti	3rd year
Edmund Yeh	3rd year
Andrey Solovyev	2nd year
Hanmo Zhang	2nd year
Xiben Li	1st year
Aniruddha Sasmal	1st year

Visiting Grad Students:**Visiting Undergraduate Students:*****FORMER RESEARCH ASSOCIATES*****Visiting Professors:**

Dr. Wei Zhang, University of Massachusetts, Boston, MA, 06/2009

Dr. Wei Zhu, Shanghai Inst. of Organic Chemistry, 2007; Roche R&D
Center in Shanghai, P. R. China, 2009

Dr. Masayuki Kameyama, Oyama National College of Technology, Japan, 2006

Dr. Carlos del Pozo, Universitat de Valencia, Spain, 2005

Dr. Shuichi Nakamura, Associate Professor, Nagoya Institute of Technology, Japan, 2003-04

Dr. Masato Matsugi, Assistant Professor, Osaka University, Japan, 2003-04, Meijo University,
Japan, 2005

Dr. Hiroyuki Nakamura, Research Instructor, Tohoku University, Japan, 2000-2001,
Gakushuin Univ., 2002

Dr. Roger Read, Associate Professor, University of New South Wales, Australia, 1998-99

Dr. Seiji Takeuchi, Associate Professor, Niigata College of Pharmacy, Japan, 1997-98

Dr. Fuyuhiko Matsuda, Hokkaido University, Japan, 1998

Professor Ashvani Singh, Department of Cell and Molecular Biology, University of Pittsburgh,
1998

Dr. Akiya Ogawa, Associate Professor, Osaka University, Summer-Fall, 1996
Dr. Hidetoshi Yamada, Kwansei Gakuin University, Japan 1993-95
Dr. Eietsu Hasagawa, Niigata University, Japan, 1992-93
Dr. Glenn Keldsen, Associate Professor, Purdue University, North Central, Westville, IN, 1986-87 (PRF Summer Faculty Fellow)

Research Associates:

David York, Visiting Student, University of Massachusetts, Boston, 06/2009
Liang Wang, Visiting Graduate Student, Nanjing University of Science & Technology, China, 06/2009
Fa Zhang, Visiting Student, Inst. of Materia Medica, Beijing, China, 2006-07
Amador Garcia Sancho, Visiting Student, Universitat de Valencia, Spain, 2007
Ms. Sophie Boldon, Visiting Student, Univ. of Oxford, UK, 2007
Simon Nielsen, Visiting Student, Danish Univ. of Pharm. Sciences, Denmark, 2006-07
Lourdes Encinas, Visiting student, Inst. of General Organic Chemistry (ICSIC), Madrid, Spain, 2006
Eisan Go, Visiting student, Osaka Univ., Japan, 2002
Muriel Amatore, Visiting student, University Pierre et Marie Curie, Paris, 2002
Karin Fischer, Visiting Grad. Student, Univ. of Konstanz, Konstanz, Germany, 2001-2002, Bayer, Germany
Eric Bosch, Visiting Student, Weismann Institute of Science, Israel, Summer 1987, Southwest Missouri State Univ., 2001.
Peter Degenkolb, Visiting Student, Technische Universität Berlin Institut für Organische Chemie, Germany, Winter-Spring 1997

Postdoctorals:

Dr. Qianli (Rick) Chu, (Ph.D., Univ. of Iowa, IA, 2006-09; University of North Dakota, Grand Forks, ND, 2009
Dr. Jesse Sabatini, (Ph.D., Univ. of Virginia), 2007-2009; Picatinny Arsenal, US Army, 2009
Dr. Eveline Kumli, (Ph.D., Univ. of Bern, Switzerland), 2006-07; Dottikon Exclusive Synthesis AG, Switzerland, 2008
Dr. Dae Hyun Cho, (Ph.D., Yonsei University, Korea), 2006-07; Optomaic Chemizon, Korea, 2008
Dr. Sabrina Guyenne, (Ph.D., Univ. of Newcastle upon Tyne, UK), 2004-06; CSIS, Canary Islands, 2007
Dr. Concepción Riesco-Fagundo, (Ph.D., Inst. De Prod. Nat. y Agrobiol., Laguna Univ., Spain), 2004-06
Dr. Cristian Harrison (Ph.D., Univ. of British Columbia, Canada), 2004-06; Vertex, Boston, 2006
Dr. Felix Gonzalez (Ph.D., Univ. of Nottingham, England), 2003-05; Amgen, San Francisco, 2005
Dr. John Mancuso (Ph.D., University of Toronto, Canada), 2003-05; MethylGene, Canada, 2005
Dr. Rachel Dixon (Ph.D., Univ. of Newcastle upon Tyne, UK), 2004-05; Postdoctoral Fellow, Prof. George Pettit, Arizona State Univ., 2005

- Dr. Jeffery J. Newsome (Ph.D., Univ. of Exeter, UK), 2004-05; Scynexis, Essex, UK, 2005
- Dr. Jean-Hugues Fournier (Ph.D., Univ. de Montréal, Québec, Canada), 2003-05; ProMetic BioSciences, Inc., Montréal, 2005
- Dr. Arndt Brückner (Ph.D., Goettingen Univ. Germany), 2004-05; Degussa, Germany
- Dr. Yoshikazu Fukui (Ph.D., Shionogi & Co, Osaka, Japan), 2004-05
- Dr. Marc Petit (Ph.D. Univ. Pierre et Marie Curie, Paris), 2002-04; CNRS, Paris, France, 2004
- Dr. Christopher Callam (Ph.D. The Ohio State University, Columbus, OH), 2003-04, Ohio State Univ. 2004
- Dr. Sukhdev (Dave) Manku (Ph.D., University of Alberta, Canada), 2002-04; MethylGene, Canada, 2004
- Dr. Hejun Lu (Ph.D., Shanghai Inst. Of Organic Chem., China), 2002-04; Northwestern Univ. 2004
- Dr. Matthias Pohlman (Ph.D., Saarland University, Germany), 2003-04; BASF, 2004
- Dr. Stefan Fischer (Ph.D. Univ. Konstanz, Germany), 2003-04; Altana Pharma AG, Germany, 2004
- Dr. Stefan Werner (Ph.D., Universität Kaiserslautern, Germany), 2002-04; CCC, Univ. Pittsburgh, UPCMLD, 2004; Bayer CropScience AG, Germany, 2007
- Dr. Cyrus O. Kangani (PhD., University of Mumbai), 2003-04, Univ. of Pittsburgh, Dept. of Medicine, 2004
- Dr. Phu Qui Nguyen (Ph.D., Westfälische Wilhelms-Univ. Münster, Münster, Germany), 2001-02; DuPont, Germany, 2004; Eckart GmbH & Co., KG, Germany, 2006
- Dr. Cyrille Richard (Ph.D., Commissariat à l'Énergie Atomique [CEA], France), 2001-2002; Aventis, 2002; CNRS, Paris, France, 2004
- Dr. Bernd Koop (Ph.D., Organisch-Chemisches Institut, WWU Münster, Germany), 2001-2002
- Dr. Nakyen Choy (Ph.D., University of Miami, Florida), 2001, Aventis Pharmaceuticals, NJ, 2002
- Dr. Mario Jeske (Ph.D., Univ. of Konstanz, Konstanz, Germany), 2001-2002, Bayer, Germany
- Dr. Takashi Furukawa, Sumitomo Chemical Co., Tokyo Inst. of Technology, Japan, 2000-2001; SumitomoChemical Europe S.A./N.V., Belgium, 2005
- Dr. Jun Terauchi, Assist. Research Head, Takeda Chemical Indus., Japan, 2000-2001
- Dr. Jose Miguel Minguez Ortega (Ph.D., Universidad de Alcalá de Henares, Spain), 1999-2001, Eli Lilly, Spain, 2002
- Dr. Krzysztof Stalinski (Ph.D., Polish Academy of Sciences, Poland), 1999-2001, Polish Academy of Sciences, Poland
- Dr. Thomas Isarno (Ph.D., University of Strasbourg, France), 2000-2001, Novartis, France
- Dr. Ali Ates (Ph.D., Université Catholique de Louvain, Belgium), 2000, Lab. de Chim. Organ., Prof. I.E. Marko, Belgium; UCB-S.A.-Pharma, Belgium, 2004
- Dr. Karsten Schnatbaum (Ph.D., University of Münster, Germany), 1999-00, Jerini Bio Tools GmbH, Berlin, Germany
- Dr. Jae Ho Cheong (Ph.D., Korea Advanced Institute of Science & Technology, Korea), 1999-00, Lucky-Goldstar, Daejeon, So. Korea
- Dr. Yoji Oderatoshi (Ph.D., Kyushu University, Japan), 1999-00, Osaka University, Japan,
- Dr. Oscar de Frutos (Ph.D., Universidad Autonoma de Madrid, Spain), 1999-00, Lilly, S.A., Madrid, Spain
- Dr. Yoshinori Nishii (Ph.D., Kwansai Gakuin University, Japan), 1998-2000, The Institute of Physical & Chemical Research (RIKEN), Japan, Kwansai Gakuin Univ., 2002, Shinshu University, Japan, 2003

- Dr. Shigeru Wada (Ph.D., Keio University, Japan), 1998-99, Soda Aromatic Co., Ltd., Japan
- Dr. Mark Ebden (Ph.D., University of Nottingham, England), 1998-99, AstraZeneca Pharmaceuticals, England
- Dr. Bruno Linclau (Ph.D., Universiteit Gent, Belgium), 1997-99, Univ. Southampton, U.K.
- Dr. Matthias Frauenkron (Ph.D., Universität Heidelberg, Germany), 1996-98, BASF, Germany
- Dr. Cunxiao Wang (Ph.D., University of Nevada-Reno), 1996-97, SmithKline Beecham, Collegeville, PA
- Dr. Marcelo D. Preite (Ph.D., Universidad Nacional de Rosario, Argentina), Pontificia Universidad Católica de Chile, Chile
- Dr. Tycho Michel, (Ph.D., Technische Universität Clausthal, Germany), Cognis, Duesseldorf, Germany
- Dr. Sung-Bo Ko (Ph.D., University of Pittsburgh, Pennsylvania), 1996-97, Samsung Adv. Inst. of Techn., South Korea
- Dr. Sabine Hadida (Ph.D., Universidad de Barcelona, Spain, J. Bosch), 1995-97, CombiChem, California, DuPont Pharmaceuticals Res. Lab., San Diego, CA, Vertex Pharmaceuticals, San Diego, CA 2002
- Dr. Gary Filzen (Ph.D., University of Illinois at Chicago), 1998, Pfizer Global R&D, Ann Arbor, MI
- Dr. Jorg Junggebauer (Ph.D., Dortmund Universität, Germany, W. Neumann), 1995-97
- Dr. Pascale Pouzet (Ph.D., Pierre et Marie Curie University, France), 1996-97, Boehringer, France
- Dr. Armido Studer (Ph.D., ETH, Zürich, Switzerland, D. Seebach), 1995-96, ETH, Zürich, Switzerland; Univ. of Muenster, 2004
- Dr. Angeles Martinez-Grau (Ph.D., Universidad Complutense de Madrid, J. L. Marco-Contelles), 1994-96, Universidad Complutense de Madrid, Spain
- Dr. Raphael Ferrito (Ph.D., Université de Lausanne, Switzerland), 1996-97, Glaxo-Wellcome, Verona, Italy
- Dr. Masahide Hoshino (Ph.D., Tohoku University, A. Yoshikoshi), 1995-96, Kao Corporation, Tochigi, Japan
- Dr. Hubert Josien (Ph.D., Université Pierre et Marie Curie, Paris, Pr. A. Marquet), 1993-96, Schering Plough
- Dr. Danielle Nanni (Ph. D., University of Bologna, Italy, A. Tundo), 1995-96, Lecturer, University of Bologna, Bologna, Italy
- Dr. Ullrich Jahn (Ph.D., Martin-Luther-Universität, Germany, W. Schroth), 1993-95, Habilitant, University of Braunschweig
- Dr. Ulf Diederichsen (Ph.D., ETH, Zürich, A. Eschenmoser), 1993-94, Habilitant, University of Munich, University of Würzburg, Inst. für Org. Chem. der Univ. Göttingen, Germany, 2001
- Dr. Naoki Yamazaki (Ph.D.; University of Tokyo), 1992-94, Meiji Seika Kaisha, Ltd., Japan
- Dr. Elaine Owen (Ph.D. Imperial College, S. Ley), 1992-1994, Zeneca Pharmaceuticals, England
- Dr. Marvin Yu (Ph. D., Emory University, L. Liebeskind), 1991-94, Smith-Kline Beecham; FTI, Pittsburgh, PA 2002
- Dr. Laurence Balas (Ph.D., University of Bordeaux II, J. Vercauteren), 1993-94, Université de Nancy, France, Université de Montpellier, Montpellier, France
- Dr. Joseph Sisko (Ph. D. Penn State University, S. Weinreb), 1991-93, Smith-Kline Beecham, Inc.

- Dr. Maree Collis (Ph. D., University of Canberra, M. Banwell), 1992-93, Monash University, Victoria, Australia
- Dr. Eugen Eichenberger (Ph. D., University of Berne, R. Schefold), Ciba-Giegy, Basel, Switzerland, 1992-93, Rohner, Pratteln, Switzerland
- Dr. Gebhard Thoma (Ph. D. University of Basel, B. Giese), 1991-1992, Ciba-Giegy, Basel, Switzerland
- Dr. Philip Yeske, (Ph. D. Emory University, A. Padwa), 1990-1991, Bayer, Inc.; FTI, Pittsburgh, PA 2000
- Dr. Jeffrey Stack, (Ph. D., UC Berkeley, C. Heathcock), 1989-1991, Ricerca, Inc.
- Dr. C. Eric Schwartz, (Ph. D., University of Wisconsin, E. Vedejs), 1988-90, Eisai Research Institute, UCB Research, Inc, Cambridge, Mass., 1999.
- Dr. Ronald Wolin, (Ph. D., UC Santa Barbara, R. D. Little), 1988-90, Schering Plough Corporation, R.W. Johnson Pharm., San Diego, CA.
- Dr. Craig Jasperse (Ph.D., University of Wisconsin, H. Reich), 1987-89, Assistant Professor, University of North Dakota, Moorehead State Univ., MN
- Dr. Thomas Fevig (Ph.D., University of Illinois, J. Katzenellenbogen), 1986-88, Procter and Gamble, Inc., (2003) Pfizer, Inc., St. Louis, MO
- Dr. Paul van Elburg (Ph. D., Twente Inst. Tech., Holland, D. Reinhoudt), 1987- 88, Shell Laboratories, The Netherlands.
- Dr. Eric Spletzer (Ph.D., University of Cincinnati, J. Belletire), 1986-88, Postdoctoral Fellow, H. Zimmerman.
- Dr. Rajendra Deshpande (Ph.D., University of Georgia, R. Hill), 1985-87, Postdoctoral Fellow, D. Goldsmith, Squibb Corporation
- Dr. David Peck (Ph.D. University of Minnesota, T. Hoye), 1984-86, Allied Chemical Corp.
- Dr Richard Elliott (Ph.D., University of Minnesota, P. Portoghese), 1984-86, Postdoctoral fellow, W. Oppolzer, 1987, Nova Corporation.

Graduate Students:

Ph.D.

- Dr. David Guthrie (2008), Postdoctoral Fellow, Prof. Dennis Liotta, Emory Univ., GA
- Dr. Xiao (Elliot) Wang (2008), Postdoctoral Fellow, Prof. Stephen Buchwald, MIT, MA
- Dr. Won-Hyuk Jung (2008), Postdoctoral Fellow, Korea, SK Life Science R&D Park, So. Korea
- Dr. Gustavo Moura-Letts (2007), Postdoctoral Fellow, Prof. Leo Paquette, Ohio State Univ., Columbus, OH; 2008, Prof. Samuel Danishefsky, Memorial Sloan-Kettering Cancer Center, NY
- Dr. Adam Keller (2007), Columbus State Comm. College, Columbus, OH
- Dr. Venupogal Gudipati (2007), Albany Molecular Research, Inc., Albany, NY
- Dr. Fanglong Yang (2006), Shanghai Hengrui Pharmaceutical, Shanghai, China
- Dr. Andre Lapierre (2005), Postdoctoral Fellow, Univ. Pittsburgh, Pittsburgh, PA, Ivor M. Hughes, Barrister & Solicitor, Ontario, Canada, 2006
- Dr. Jonathan Tripp (2005), Postdoctoral Fellow, Prof. Barry Sharpless, The Scripps Research Inst., San Diego, CA

- Dr. Youseung Shin (2005), Postdoctoral Fellow, Prof. Larry Overman, Univ. of Calif., Irvine; Scripps, Jupiter, FL, 2006
- Dr. Raghuram Tangirala (2004), Postdoctoral Fellow, Prof. G. Pattenden, Univ. of Nottingham, AstraZeneca, Bangalore, India, 2006
- Dr. Sivaraman Dandapani (2003), Postdoctoral Fellow, Prof. John Porco, Boston Univ.; 2007 Broad Inst. of MIT, Cambridge, MA
- Dr. Qisheng (Dale) Zhang (2003), Postdoctoral Fellow, Dr. Peter Schultz; The Scripps Research Inst., San Diego, CA; Univ. of No. Carolina, Chapel Hill, No. Carolina, 2006
- Dr. Wu Du (2002), Postdoctoral Fellow, Dr. Dale Boger, The Scripps Research Inst., San Diego, CA; 2004, Merck, Rahway, NJ
- Dr. Alexey Rivkin (2001), Postdoctoral Fellow, Dr. Samuel Danishefsky, Memorial Sloan-Kettering, NY; 2004, Merck, Rahway, NJ
- Dr. Ana Gabarda (2001), Postdoctoral Fellow, Dr. James Panek, Boston Univ., Boston, MA, (2002) Dr. Samuel Danishefsky, Memorial Sloan-Kettering, NY; 2004, Merck, Boston, MA
- Dr. Giovanna Gualtieri (2000), Postdoctoral Fellow, Innapharma, Suffern, NY; Arquele, Woburn, MA; 2002, Berlex Biosciences, Richmond, CA
- Dr. Zhiyong (Robert) Luo (2000), Postdoctoral Fellow, Dr. Dennis Curran, University of Pittsburgh; Neurocrine Bioscience, San Diego, CA; Cara Therapeutics, Inc., Tarrytown, NY (2006)
- Dr. David Bom (2000), Postdoctoral Fellow, Dr. Thomas Burke, Univ. of Kentucky; Athersys, OH
- Dr. Brian Haney (2000), AMRI, Albany, NY
- Dr. Ulrich Iserloh (1999), Postdoctoral Fellow, Dr. Samuel Danishefsky, Memorial Sloan-Kettering, NY; Schering-Plough Research Inst., NJ, 2004
- Dr. Sun-Young Kim (1999), Postdoctoral Fellow, Pacific Corp., Korea, Amore Pacific Corp., Korea
- Dr. Weidong Lui (1999), Postdoctoral Fellow, Dr. Gary Sulikowski, Texas A&M, College Station, Texas; Array BioPharma, Inc.
- Dr. Greg Hale (1999), Asst. Prof., University of Texas at Arlington, Arlington, Texas
- Dr. Daniel Christen (1999), Postdoctoral Fellow, Dr. J. Rigby, Wayne State University, Detroit, Michigan
- Dr. Mu He (1998), Postdoctoral Fellow, Dupont, Inc.; GSIA, Carnegie Mellon University, Pittsburgh, PA
- Dr. Tadamichi Nagashima (1997), Postdoctoral Fellow, Dr. H. Davies, State University of New York at Buffalo, Buffalo, NY, Fluorous Technologies, Inc., Pgh., PA
- Dr. Xin Gu (1997), Merck & Co., Inc, NJ
- Dr. Jinyou Xu (1997), Postdoctoral Fellow, Dr. K. C. Nicolaou, Scripps Institute, La Jolla, CA, Merck & Co., Inc., NJ
- Dr. Sung-Bo Ko (1996), Postdoctoral Fellow, Dr. Dennis P. Curran, University of Pittsburgh, Pennsylvania, Samsung Advanced Institute of Technology, South Korea
- Dr. Aaron Balog (1996), Postdoctoral Fellow, Dr. S. Danishefsky, Sloan Kettering Memorial Hospital, New York, NY, Bristol-Myers Squibb, Princeton, NJ
- Dr. Nick DeMello (1996), Postdoctoral Fellow, Dr. K. N. Houk, UCLA, Xplain Corp., Westlake Village, CA

- Dr. Michael Palovich (1996), Postdoctoral Fellow, Dr. James A. Marshall, University of Virginia, SmithKline Beecham, Philadelphia, PA
- Dr. Lung Huang Kuo (1995), Postdoctoral Fellow, Dr. Leo A. Paquette, Ohio State University, Sinon Corporation, Taiwan, R.O.C.
- Dr. Hongyen Qi (1995), Postdoctoral Fellow, Dr. F. Davis, Drexel University, Philadelphia, Zeneca, Pinole, CA, PTC Therapeutics, South Plainfield, NJ
- Dr. Hui Liu (1994) Postdoctoral Fellow, Dr. H. Moore, University of California, Irvine; Merck, Inc., Rahway, NJ
- Dr. Shunneng Sun, (1994), Postdoctoral Fellow, Dr. M. Miller, Notre Dame; S'LIL Biomedical, LLC, Madison, Wisconsin
- Dr. Lin, (1994), Postdoctoral Fellow, Dr. L. McElwee-White, University of Florida; National Taiwan University, Tapei, Taiwan, ScinoPharm Taiwan, Ltd.
- Dr. Hosung Yu, (1994), Postdoctoral Fellow, Dr. M. Jung, University of California, Los Angeles, Samsung Fine Chemicals Co., Ltd., So. Korea, HanChem Co., Daejeon, Korea
- Dr. Ann Abraham (1993), Ricerca, Inc., Prof., Notre Dame College, So. Euclid, OH
- Dr. P. S. Ramamoorthy (1992) Postdoctoral Fellow, Dr. W. Pearson, University of Michigan, Wyeth-Ayerst, Princeton, NJ
- Dr. Byungwoo Yoo (1992), Postdoctoral Fellow, Dr. J. Nowick, University of California, Irvine (1992-94), College of Natural Science and Technology, Korea University, KOREA
- Dr. Sung-Mo Choi (1992) Postdoctoral Fellow, Dr. J. Winkler, University of Pennsylvania; (2003) Sangji Univ., So. Korea
- Dr. Michael Totleben (1992) Postdoctoral Fellow, Dr. R. Boeckman, University of Rochester; Bristol-Myers Squibb, Princeton, NJ
- Dr. Wang Shen (1991) Postdoctoral Fellow, Dr. S. Danishefsky, Sloan-Kettering Memorial Hospital, Sunesis Pharmaceutical, Inc., CA, Amgen, San Francisco, CA
- Dr. Hong-Tao Liu (1991), Postdoctoral Fellow, Dr. G. Posner, Johns Hopkins University, Gilead
- Dr. Churl-Min Seong (1990), Postdoctoral Fellow, Dr. B. Ganem, Cornell University and Dr. A. Hamilton, University of Pittsburgh, KIST, Korea
- Dr. David Ribar (1990), Aldrich Chemical Company, Milwaukee, WI
- Dr. Jiaccum Zhang (1990), Postdoctoral Fellow, Dr. M. Pirrung, Duke University (1990-92), Gilead; Shanghai Jiaotong Univ.
- Dr. Scott Gothe (1989), Postdoctoral Fellow, Dr. W. Jorgensen, Yale University (1990-92), MDL
- Dr. Chi-Tai Chang (1989), Postdoctoral Fellow, Dr. R. Petter, Univ. of Pittsburgh
- Dr. J.-C. Chao (1988), Postdoctoral Fellow, M. Jung, UCLA; China Steel Corp, Taiwan, 1992, China Scientific Fine Chemicals Co., Ltd., JiangSu, China
- Dr. Dooseop Kim (1988), Postdoctoral Fellow, K. Nakanishi, Columbia University, Merck Sharp and Dohme, Inc.
- Dr. Meng-Hsin Chen (1987), Postdoctoral Fellow, G. Stork, Columbia University; Merck Sharp and Dohme, Inc.
- Dr. Byeang Hyeam Kim (1987), Postdoctoral Fellow, K. C. Nicolau, University of Pennsylvania (1988); Professor, Pohang Institute of Science and Technology, Korea.
- Dr. Young-Ger Suh (1987), Assistant Professor, Dept. of Pharmacy, Seoul National University, Korea.
- Dr. Christopher Fenk (1987), Assistant Professor, Kent State University, East Liverpool
- Dr. Patricia Jacobs (1986), Mobay Chemical Corp., Bayer Chem. Corp. Pgh., PA

Dr. Shen-Chun Kuo (1985), Postdoctoral Fellow, J. D. White (1986-88), University of Oregon;
Schering Plough Corp.

Thesis M.S.

Heather Gibney (2006), Sauereisen, Inc., RIDC, O'Hara Twosp., PA
Claude Ogoe (2006), AstraZeneca, Boston, MA.
Xiaoyuan Ding (2006), Pfizer, Groton, CT
Tiffany Turner (2005), Baylor Univ., Waco, TX
John Tamine (2002), Lecturer, California University of PA
Neil Fairweather (2002), Procter & Gamble, Cincinnati, OH
Peter Greenen (2001), Pharmacia Corporation, Kalamazoo, MI, (2003) Eli Lilly & Co.,
Indianapolis, IN
Christine Chen (2000), FTI, Pittsburgh, PA 2004; Novartis Inst. for Biomed. Res., Inc.
Cambridge, MA (2005);
Maria Cristina Solimini (2000), University of Kentucky
Sookwang Lee (2000), University of Georgia, Athens, GA, , Pacific Northwest Nat'l.,
Richland, WA (2006)
Ye Hua (1998), Agouron, San Diego, CA
Xin Gu (1997), Combichem, La Jolla, CA, Merck, NJ
Michael Roepel (1996), Palo Alto, CA
Eric Campbell (1996), Georgetown University, Medical School
Moon-Hwan Yoon (1994), Wayne State University, Detroit, MI
Min Shu (1991), Irvine, CA
Aaron Heiss (1991), Graduate Student, SUNY at Stonybrook
Timothy Heffner (1989), MBA, Univ. of Pittsburgh
Tina Morgan (1988), Sterling Drug, Inc., Malvern, PA
David Leszczewski (1987), Lancaster Chemical Corp., Erie, PA
Wallace Lin (1985), Graduate Student, Carnegie Mellon University.
Donna Rakiewicz (1985), Research Assistant, Strong Memorial Hospital, Rochester, NY
Jan Brill (1984), Technical Director, Lico Inc.

Undergraduates:

Matthew Denardo (2008) Carnegie Mellon University, Terrence Collins
Maksim (Max) Osipov (2008) Stanford University, Barry Trost
Christopher Henry (2007) PITT-SPURG Program from Duke Univ.
Katherine Freeman (2006) NSF REU Student from Gannon Univ.
Elizabeth Sanger (2005) NSF REU Student from Rutgers Univ.; Univ. of Pittsburgh, Grad.
Student
Sandra Kim (2004) NSF REU Student from College at New Jersey; Univ. of Pittsburgh, Grad.
Student
David Guthrie (2002) NSF REU Student from St. Vincent University; Univ. of Pittsburgh,
Grad. Student
Matthew Campbell (2002-2003), University of No. Carolina, Grad. Student
Brad Balthaser (2001-02), Emory University, Grad. Student
Brian Bucher (1999-2001), University of Pittsburgh Medical School Graduate Student

Aimee Crombie (1998-99), MIT, Grad. Student
Grace Hua, (1994-95)
Dianna Griffiths (1993-94), University of Pittsburgh School of Education
Michele Peca (1992-93)
Eric Cambell (1992), Wyeth-Ayerst, University of Pittsburgh, Graduate Student
Terry Crocinelli (1991) NSF REU fellow from Allegheny College
Susan Kovatch, (1991)
James Patton (1990), University of Pittsburgh, Grad. Student
Jeremy Wessel (1989)
Leo Shin (1987), Princeton University, Grad. Student
James Daugherty (1987), University of Pittsburgh, Grad. Student
Craig Zimmerman (1986), UCLA, Grad. Student
Michael Orwat, (1985), University of Rochester, Grad. Student
Susan Scanga (1983), University of Rochester, Grad. Student
David Singleton (1982), Pfizer
Christopher Nowak (1982)

*DEPARTMENTAL AND UNIVERSITY ACTIVITIES***Committee Service:**

2007-08	Graduate Recruiting Committee Support Services, NMR
2006-07	Seminar Committee Chairman Support Services, NMR
2005-06	Seminar Committee Chairman NMR Search Chairman, NMR Facility Oversight
2004-05	Seminar Committee Chairman
2004-05	Temporary Director, NMR Facility
2003-04	Graduate Recruiting Committee Chairman
2002-03	Graduate Recruiting Committee Chairman
2001-02	Graduate Recruiting Committee Chairman
2000-01	Organic Division Chairman, Organic Search Committee Chairman
1999-2000	Organic Division Chairman, Organic Search Committee Chairman, Graduate Admission Committee Chairman
1998-99	Organic Division Chairman, Organic Search Committee Chairman, Graduate Admission Committee Chairman
1997-98	Organic Division Chairman, Organic Search Committee Chairman, Graduate Admission Committee Chairman
1996-97	Library Committee, Organic Division Chairman, Executive Committee, Computer Resources Committee
1995-96	Library Committee, Organic Division Chairman, University Honors Committee, Executive Committee, Computer Resources Committee
1994-95	Library Committee, Organic Division Chairman, University Honors Committee, Executive Committee
1993-94	Graduate Admissions Committee, Library Committee, Organic Division Chairman, University Honors Committee, Executive Committee

1992-93	Graduate Admissions Committee, Library Committee, Organic Division Chairman, University Honors Committee, Executive Committee
1988-92	Committee assignments reduced by RCDA
1991-92	Faculty Development and Long Range Planning Committee, Organic Division Chairman, Executive Committee
1990-91	Faculty Development and Long Range Planning Committee, Organic Division Chairman, Executive Committee
1989-90	Faculty Development and Long Range Planning Committee, Organic Division Chairman, Executive Committee
1987-88	Graduate Admissions Committee, Committee for Evaluation of the Status and Recognition of Teaching, Executive Committee
1986-87	Faculty Development and Long Range Planning Committee, Graduate Admissions Committee, Budget and Finance Committee
1985-86	Graduate Admissions Committee, Library Committee, Organic Search Committee, Budget and Finance Committee
1984-85	Library Committee, Faculty Development and Long Range Planning Committee, Graduate Admissions Committee, Coordinator of Chemical Abstracts Online
Fall 1983, 84, 85	Chairman, Organic Seminar Program
1983-84	Library Committee, Graduate Curriculum Committee
1982-83 1982-87	Library Committee, Faculty Development and Long Range Planning Committee Undergraduate Advising

COURSES

Term	Course	Number of Students
Winter 2007	Organic Synthesis 1310/2370	15
Spring 2007	Sabbatical	
Winter 2006	Advanced Organic 0310/0237	15
Spring 2006	Organic II 0320	193
Winter 2005	Advanced Organic 0310/0237	10
Spring 2005	Organic I 0310	128
Winter 2004	Intro. to Grad. Res. 2700	47
Spring 2004	Organic I 0310	120

Winter 2003	Advanced Organic	0130/0237	10
Spring 2003	UHC Organic II	UHC 0740	10
Winter 2003	UHC Organic I	UHC 0740	10
Winter 2002	UHC Organic II	UHC 0740	15
Fall 2001	UHC Organic I	UHC 0730	16
Winter 2001	Undergrad Res. Sem.	1700	20
Winter 2001	Organic I	0310	65
Fall 2000	Organic I	0310	65
Winter 1999	UHC Organic II	UHC 0740	13
Fall 1998	UHC Organic I	UHC 0730	18
Winter 1998	UHC Organic II	UHC 0740	18
Fall 1997	UHC Organic I	UHC 0730	18
Winter 1997	Spectroscopy	1380/2380	26
Fall 1996	Sabbatical		
Winter 1996	Spectroscopy	1380/2380	25
Fall 1995	Organic I	7310/0310	132
Winter 1995	Synthesis	232	29
Winter 1995	Spectroscopy	138/238	26
Fall 1994	Minicourse	337	29
	"Computers in Organic Chemistry," with Professor Peter Wipf		
Winter 1994	Synthesis	232	19
Winter 1994	Minicourse	331	45
	"Radicals in Organic Synthesis"		
Fall 1993	Organic I	31	200
Winter 1993	Synthesis	232	30
Fall 1992	Minicourse	331	25
	"Minicomputers in Organic Chemistry"		
Fall 1991	Organic II	32	74
Winter 1991	Minicourse	331	31
	"Radical in Organic Synthesis"		
Winter 1988	Synthesis	232	18
Winter 1987	Synthesis	232	33
Fall 1986	Organic I	31	145
Winter 1986	Synthesis	232	35
Winter 1986	Spectroscopy	138	37
Fall 1985	Minicourse	331	30
	"Introduction to Free Radical Chemistry"		
Winter 1985	Spectroscopy	138	34
Winter 1985	Minicourse	331	41
	"Introduction to the Literature of Organic Chemistry"		
Fall 1984	Synthesis	131	21
Winter 1984	Spectroscopy	138	29
Fall 1983	Organic II	32	99
Spring 1983	Minicourse	330	23

	"Introduction to Carbohydrate Chemistry"		
Winter 1983	Spectroscopy	138	36
Fall 1982	Organic II	32111	
Spring 1982	Minicourse	330	26
	"The Chemistry of Condensed Cyclopentanoid Natural Products"		
Winter 1982	Spectroscopy	138	26

GRANT SUPPORT

(A) **Current**

- National Institutes of Health, 8/04-7/09, "Fluorous Mixture Synthesis of Natural Product Libraries", \$217,500
- National Institutes of Health, 9/02-9/07, "University of Pittsburgh Center for Chemical Diversity", \$9,639,369
- National Institutes of Health, 03/05-02/08, "Pittsburgh Molecular Libraries Screening Center", \$31,370
- National Institutes of Health, 07/05-06/10, "Combinatorial Approaches for Novel Anticancer Agents", \$127,107
- National Institutes of Health, 04/07-03/08, "Purchase of a 600 MHz NMR Spectrometer with Cyroprobe", \$492,765
- National Science Foundation, 01/07-12/10, "New Synthetic Organic Reactions"

(B) **Expired**

- National Science Foundation, (initial start date, 1992) 1/02-12/06, "Asymmetric Reactions of Axially Chiral Amides," \$500,000, (total direct and indirect cost).
- National Institutes of Health (initial start date, 1984) 8/00-7/04, "Fluorous Methods for Traditional and Parallel Synthesis," \$840,000 (total direct cost).
- National Institutes of Health, 4/98-3/04, "Parallel Synthesis Strategies for Natural Products", J. Law (PI), P. Wipf (Chemistry PI), \$660,000 (total direct cost).
- National Institutes of Health, 9/99-8/02, "Long Circulating Liposomal Camptothecins", T. Burke, Univ. Kentucky, P.I., \$89,000 (subcontract).
- National Institutes of Health, 5/01-4/02, "Blood Stable Camptothecins", T. Burke, Univ. Kentucky, P.I., \$40,000 (subcontract).
- National Institutes of Health, 5/98-2/03, "Combinatorial Approaches for Novel Anticancer Agents", J. Lazo, P.I.
- National Institutes of Health, (initial start date, 1983), 8/99-7/05, "Radical Reactions for Natural Products and Library Synthesis."
- Tigen Pharmaceuticals, 4/00-12/01, "Combinatorial Development of Anticancer Silatecan".
- Innapharma, 4/00-8/01, "Non-antibiotic Tetracyclines as MMP Inhibitors".
- National Science Foundation, 2/99-12/01, "Effective New Methods for Synthesis of Chiral Molecules".
- National Institutes of Health, 4/99-3/01, "Combinatorial Synthesis of Camptothecins", T. Burke, P.I., \$90,000 (subcontract from Tigen Pharmaceuticals).
- National Institutes of Health, 8/96-7/00, "Fluorous Reagents in Traditional/Combinatorial Synthesis".
- Unrestricted Gift, Merck, Inc., \$50,000, 1998-00.
- Unrestricted Gift, Parke-Davis, Inc., \$25,000, 1998-99.

CombiChem, Inc., 8/97-7/98, "Fluorous Multiple Parallel Synthesis," \$195,000 (total direct cost).

OxyChem, Inc., 9/97-8/98, "BTF as a solvent in Organic Synthesis," \$54,000 (total direct cost).

Unrestricted Gift, Warner Lambert, 1996, \$25,000.

Industrial Support, (6/95-5/96), Proprietary Project, \$38,000 (total cost).

Unrestricted Gift, Parke-Davis, 4/96, \$25,000.

NATO Collaborative Research Grant with Dr. C. Chatgililoglu, (5/93-5/95), "New Reagents for Radical Allylations", \$5,000 (total cost).

Glaxo, Inc., 9/93-8/94 "Synthetic Approaches to Camptothecin", \$82,000 (total cost).

Wyeth-Ayerst, Inc., 9/93-8/94, "Graduate Fellowship", \$20,000 (total cost).

NSF/NAS "COBASE" Grant with Professor E. Troyansky (Moscow), (5/94), \$2,000 (total cost).

National Institutes of Health, 9/87-8/92, Research Career Development Award, \$250,000.

National Institutes of Health, 9/87-8/92 (initial start date, 9/85), "Synthetic, Mechanistic, and Theoretical Studies of Substituent-Controlled Claisen Rearrangements", \$670,000.

Petroleum Research Fund, 9/89-8/91, "Sequencing Radical and Ionic Reactions", \$40,000.

Dreyfus Foundation Teacher Scholar Award, 86-91, \$50,000.

Merck Faculty Postdoctoral Fellowship Award, 1988-91, \$75,000.

ICI Award for Excellence in Chemistry, 1990, \$15,000

President's Distinguished Research Award (Univ. of Pittsburgh), 1989, \$4,000

ACS Cope Scholar Award, 1988, \$15,000

Hoffmann LaRoche Unrestricted grant, 1988-89, \$5,000.

Sloan Foundation Fellow, 85-87, \$25,000.

Eli Lilly Grantee, 85-87, \$14,400.

Merck Faculty Development Award, 1986, \$12,000

Stuart Pharmaceuticals, 1986, \$2,500.

American Cyanamid Synthesis Award, 1986, \$4,000.

Petroleum Research Fund (AC), 9/85-8/87, "Synthetic and Mechanistic Studies of Substituent-Controlled Claisen Rearrangements", \$35,000, 9/85-8/87.

Dreyfus Foundation Young Investigator Award, 9/81-10/86, \$25,000.

Petroleum Research Fund, (starter grant G), "Natural Products Synthesis" via Nitrile Oxide Cycloadducts", \$10,000, 9/81-8/83

Research Corporation, "Approach to the Total Synthesis of Gelsemine", \$12,000, 10/81-9/82.

Health, Research and Services Foundation, 1/84-12/84, "Synthesis of Rare Antitumor Agents", \$15,000.

Health, Research and Services Foundation, 1/83-12/83, \$12,700 (see above).

American Cancer Society Institutional Grant, 1/83, \$5,000.

Research Development Fund (University of Pittsburgh), 2/83, \$2,000.