

CURRICULUM VITAE

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Home Address: 568 North 23rd Street
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Date and Place of Birth: November 11, 1948: Berkeley, CA

Marital Status: Married, six children

Education:

1970 B.S. Stanford University (Honors in Chemistry)

1974 Ph.D. Columbia University (Organic Chemistry)

Research Interests:

1969-70 Undergraduate Research, L. J. Altman, Stanford University: Preparation of 9,10-cyclopentaphenanthrene; Preparation and reactions of 1,1-dihaloepoxides.

1970-74 Graduate Research, G. Stork, Columbia University: Intramolecular Michael reactions to produce cis-fused bicyclic systems; Applications to the synthesis of gibberellins.

1974-75 Postdoctoral Research, B. M. Trost, University of Wisconsin: Applications of sulfonium chemistry to natural products synthesis.

1975 - 2014 Research: Stereoselective synthesis of natural products; New methods in synthetic organic chemistry; Computational organometallic chemistry.

Professional Experience:

1974-75 Research Associate, Department of Chemistry, University of Wisconsin

1975-77 Research Instructor, Department of Pharmacology, Vanderbilt University

1977-82	Assistant Professor, Department of Pharmacology, Vanderbilt University
1978-82	Research Assistant Professor, Department of Chemistry, Vanderbilt University
1982-84	Assistant Professor, Department of Chemistry, University of Delaware
1984-93	Associate Professor, Department of Chemistry, University of Delaware
1993-2014	Professor, Department of Chemistry, University of Delaware
2014-	Professor Emeritus, Department of Chemistry, University of Delaware

Professional Service:

1985	NCI SBIR Study Section, May 1985
1986	Chairman, Local Organizing Committee, 29 th National Organic Chemistry Symposium, Newark, DE 1985
1984-87	Consultant, Helix Associates, Newark, DE (2 days/year)
1982-1992	Consultant, Division of Clinical Pharmacology, Vanderbilt University (5 days/year)
1985-88	Invited monthly column, "Organic Chemistry Review," Industrial Chemist
1987-2009	Wallace Carothers Award Committee, Delaware Section, American Chemical Society
1988-89	Visiting Research Scientist, Du Pont Central Research
1991	NIH SBIR Study Section, July 1991
1991	State Department/AID Review Panel, Oct 1991
1992	Visiting Professor, Universidad Autonoma Nuevo Leon, Monterrey, Mexico June 7-13
1992	Ad Hoc member, Medicinal Chemistry A Study Section, NIH Oct 14-16
1993	Member, Medicinal Chemistry Special Study Section, NIH, Nov 30
1992-93	Expert witness, Phoenix Petroleum, King of Prussia, PA
1993-94	Expert witness, Rothwell, Figg, Ernst and Kurz, Washington, D.C.

1994	Consultant, Bausch & Lomb Pharmaceuticals, Tampa, Florida
1995-2002	Consultant, Dupont Company
1995-96	Visiting Research Scientist, Dupont Merck Pharmaceuticals
1996	Symposium Organizer, "Guided Inquiry in the Organic Lecture and Laboratory", 14 th Biennial Conference on Chemical Education, Clemson University
1998	Member, Fellowship Review Panel, NIH, March 23-24
1998	Symposium Organizer, "Practical Applications of Computational Organometallic Chemistry", American Chemical Society National Meeting, Boston, August 26
2000	Reviewer, National Research Council
2000	Expert Witness, Kenyon & Kenyon, New York, NY
2001	Visiting Professor, South China Agricultural University, Guangzhou, Jan. 6-10
2001-03	Short Course, "Intermediate Organic", Dupont Agricultural Chemistry.
2003	Member, Fellowship Review Panel, NIH, July 8-9, Nov. 12
2003	Member, Ernest Guenther Award Canvassing Committee, ACS
2004	Member (ad hoc), BNP Study Section, NIH, March 8-9
2007	Expert Witness, Sterne, Kessler, Goldstein, Fox, Washington, DC
2007	ACS short course, "Recent Developments in Organic Synthesis", New Brunswick, NJ, June 2007
2007	ACS short course, "Recent Developments in Organic Synthesis", Boston, MA August 2007
2009	National Defense Science and Engineering Graduate Fellowship review panel, Arlington, VA
2009-2010	Expert Witness, Montgomery, McCracken, Walker & Rhoads, Philadelphia, PA

2010	Expert Witness, Winston & Strawn, Chicago, IL
2010	Expert Witness, Morrison & Foerster, San Diego, CA
2014	Visiting Professor, University of Science and Technology, Hefei, China
2014-2015	Expert Witness, Department of Justice, Washington, DC

Honors and Awards:

1967-70	Dean's List, Stanford University
1968	NSF Undergraduate Research Participant
1969	Elected to Phi Lambda Upsilon
1970-73	NSF Graduate Fellow
1974	Elected to Sigma Xi
1976-84	National Institutes of Health Research Grant, CA 34383
1978	Invited participant, National Science Foundation Workshop on Organic Synthesis and Natural Products Chemistry
1979-83	Petroleum Research Fund AC Research Grants
1980-81	Research Grant, Vanderbilt University Research Council
1983-86	National Institutes of Health Research Grant, GM 32027
1983-87	Fellow of the Alfred P. Sloan Foundation
1983	Research Grant, University of Delaware Research Foundation
1983-86	National Science Foundation Research Grant, CHE 8306692
1984	Invited participant, Symposium, "Latest Trends in Organic Synthesis," Blacksburg, VA
1985	National Science Foundation Travel Grant, IUPAC Symposium on Organometallics in Organic Synthesis, Kyoto, Japan
1985-87	Petroleum Research Fund A/C Research Grant

1988	National Science Foundation Travel Grant, IUPAC Symposium on Natural Products Chemistry, Kyoto, Japan
1989	Invited speaker, 5 th International Symposium on Carbene Chemistry, Kyoto, Japan
1991	National Science Foundation Travel Grant, IUPAC Symposium on Organometallics in Organic Synthesis, Utrecht
1991-93	Research Grant, Allergan, Inc., Irvine, CA (\$50,828/year) one postdoctoral
1991-93	Petroleum Research Fund A/C Research Grant (\$20,000/year) one Ph.D. student
1991-93	Research Contract, DoD/Aberdeen, MD (\$25,000/first year, \$49,600 second year) one Ph.D. student
1991-92	Research Contract, NIH/NIAAA, Bethesda, MD (\$25,000/year) one Ph.D. student
1992-94	National Institutes of Health research grant, GM 46762, "Synthesis of Taxol" \$171,410/year, two postdoctorals, one graduate student
1993-2011	National Institutes of Health research grant, GM42056 "Structural Investigation of Prostaglandin Conjugates", \$114,461/year, one postdoctoral, one Ph.D. student (NIH MERIT Award).
1993-2012	Invited speaker, ACS National Meeting, Denver
1993	National Science Foundation Travel Grant, Joint USA-Japan-China Symposium on Catalysis, Beijing
1993	Invited speaker, Scientific Conference on Chemical Defense Research, Aberdeen, MD
1994	Research Grant, Zeneca Pharmaceuticals, \$15,000
1995	Invited speaker, Symposium on Organometallics in Organic Synthesis, 78 th Canadian Society for Chemistry Conference and Exhibition
1995-1996	National Science Foundation, GOALI program, \$60,000 Sabbatical support
1995-97	Petroleum Research Fund A/C Research Grant (\$25,000/year) one Ph.D. student

- 1996 Invited speaker, 11th International Conference on Organic Synthesis (ICOS-11), Amsterdam
- 1997 Invited speaker, South East Regional Meeting, American Chemical Society
- 1997 Invited speaker, IUPAC International Conference on Biodiversity and Bioresources, Phuket, Thailand
- 1998 Organizer, "Practical Applications of Computational Organometallic Chemistry", National American Chemical Society meeting, Boston
- 1998 Invited speaker, Symposium, "Latest Trends in Organic Synthesis," Gainesville, FL
- 1999 Invited speaker, Middle Atlantic Regional Meeting, American Chemical Society
- 1999 Invited speaker, Organometallics in Organic Synthesis (OMCOS 10), Versailles, France July 21
- 1999 Invited speaker, Gordon Research Conference on Natural Products, Henniker, NH
- 1999-2000 Petroleum Research Fund A/C Research Grant (\$30,000/year) one Ph.D. student
- 1999 Invited speaker, South East Regional Meeting, American Chemical Society
- 2000-2008 National Institutes of Health research grant, GM 60287, "Physiologically Active Natural Products" \$256,700 / year, one postdoctoral, three Ph.D. students
- 2000 Invited speaker, 11th International Conference on Organic Synthesis (ICOS-13), Warsaw
- 2001 Invited speaker, Organometallics in Organic Synthesis (OMCOS 11), Taipei, Taiwan
- 2003 Elected Fellow, American Association for the Advancement of Science
- 2004 Invited speaker, ACS National Meeting, Anaheim, March 2004
- 2004 Invited speaker, International Conference, Chemistry Biology Interface: Synergistic New Frontiers, Delhi, India, Nov. 22-77, 2004.

- 2005 Invited speaker, Symposium on the Chemistry and Biology of Biomolecules, Montpellier, France March 20-25, 2005.
- 2005 Invited speaker, Singapore International Chemical Conference 4 Dec. 8-10, 2005.
- 2006 Invited speaker, ACS National Meeting, Atlanta, March 2006
- 2006 Invited speaker, ACS Middle Atlantic Regional Meeting, Hershey, PA June 2006
- 2007 Invited speaker, Symposium, C-H Activation in Organic Synthesis, Loughborough, England April 2007
- 2008 Lead speaker, Symposium "Innovations in the Organic Chemistry Curriculum" 20th Biennial Conference on Chemical Education, Bloomington, IN July 2008
- 2009 Invited speaker, 2nd Pennsylvania Organic Chemistry Curriculum Development Conference, Immaculata University, Immaculata, PA May 27th
- 2009 Invited speaker, meeting on the Schweinfurthins and Related Natural Products, NIH/Frederick, December 11, 2009
- 2010 Invited speaker, 1st Annual Congress of Catalytic Asymmetric Synthesis, Beijing
- 2010 Invited speaker, ACS National Meeting, Boston
- 2011 Invited speaker, Fifth International Symposium "The Chemistry of Aliphatic Diazo Compounds: Advances and Outlook" St. Petersburg, Russia
- 2011 Invited speaker, Gordon Research Conference on Natural Products
- 2011 Allan R. Day Award, Philadelphia Organic Chemists Club
- 2014 Visiting Professor, University of Science and Technology, Hefei, China
- 2016 Plenary speaker, 23rd Conference on Isoprenoids, Minsk, Belarus
- 2020 Invited speaker, International Conference on Chemical Science for Drug Discovery & Therapy, VNIT Nagpur, India

Publications:

1. Taber, D. F. A simple synthesis of 2-alkyl cyclohexenones. *J. Org. Chem.* 41: 2649, 1976.
2. Trost, B. M.; Taber, D. F.; and Alper, J. B. An approach to the stereocontrolled creation of an acyclic side chain of some natural products. *Tetrahedron Lett.*: 3857, 1976.
3. Taber, D. F. Cyclopentanone ring formation with control of side chain stereochemistry: a simple stereoselective route to the prostaglandins. *J. Am. Chem. Soc.* 99: 3513, 1977.
4. Harbison, R. D.; MacDonald, J.S.; Sweetman, B. J. Taber, D. F. Proposed mechanism for diphenylhydantoin-induced teratogenesis. *Pharmacologist* 19: 179-179 (1977).
5. Taber, D. F., and Lee, C. H. The preparation of dimethyl (7-²H₃-2-oxoheptyl) phosphonate, a reagent for the synthesis of 20-²H₃ prostaglandins and thromboxanes. *J. Labelled Compounds and Radiopharmaceuticals* 14: 599, 1978.
6. Stork, G.; Taber, D. F.; and Marx, M. Intramolecular Michael addition as a route to angularly substituted cis hydroindanes. *Tetrahedron Lett.*: 2445, 1978.
7. Wilson, J. T.; Howell, R. L.; Holladay, M. W.; Brillis, G. M.; Chrastil, H.; Watson, J. T.; and Taber, D. F. Gentisuric acid (GU): metabolic formation and identification as a metabolite of aspirin in man. *Clin. Pharmacol. Ther.* 23: 634-643, 1978.
8. Taber, D. F., and Korsmeyer, R. A simple stereoselective synthesis of (±)-oplopanone. *J. Org. Chem.* 43: 4925-4927, 1978.
9. Jernigan, J.; Taber, D.; Harbison, R. D. General method for the in vitro production and identification of N-dealkylated metabolites. *Tox. App. Pharm.* 48: A164-A164, 1979.
10. Taber, D. F., and Gunn, B. P. Branching strategy in organic synthesis. A versatile ketone to enone homologation. *J. Org. Chem.* 44: 450, 1979.
11. Taber, D. F.; Jernigan, J. D.; Watson, J. T.; Carr, K.; and Woosley R. L. N-Desethylacecainide is a metabolite of procainamide in man: convenient method for the preparation of an N-dealkylated drug metabolite. *Drug Metabol. Disp.* 7: 346, 1979.
12. Taber, D. F. and Gunn, B. P.: Control elements in the intramolecular Diels-Alder Reaction: synthesis of (±)-torreyol. *J. Am. Chem. Soc.* 101: 3992, 1979.

13. Stork, G.; Boeckmann, R. K., Jr.; Taber, D. F.; Still, W. C. and Singh, J. Reductive cyclization of ethynyl ketones in the construction of a significant tricyclic intermediate for the synthesis of gibberellic acid. *J. Am. Chem. Soc.* 101: 7107, 1979.
14. Oates, J. A.; Roberts, L. J., II; Sweetman, B. M.; Maas, R. L.; Gerken, J. F.; and Taber, D.F. Metabolism of the prostaglandins and thromboxanes, in: *Advances in Prostaglandin and Thromboxane Research*, Vol. 6 (B. Samuelsson, P. E. Ramwell and R. Paoletti, Eds.) Raven Press, NY, 1980, p. 35.
15. Verbeeck, R. K.; James, R. C.; Taber, D. F.; Sweetman, B. J. and Wilkinson, G. R. The determination of meperidine, normeperidine and deuterated analogs in blood and plasma by gas chromatography mass spectrometry selected ion monitoring. *Biomedical Mass Spectrometry* 7: 58, 1980.
16. Taber, D. F., and Anthony, J. M. Stereoselective synthesis of ($\pm$)-laurene. *Tetrahedron Lett.*: 2779, 1980.
17. Taber, D. F., and Saleh, S. A. Intramolecular Diels-Alder route to angularly substituted perhydrophenanthrenes: synthesis of ($\pm$) fichtelite. *J. Am. Chem. Soc.* 102: 5085, 1980.
18. Taber, D. F.; Saleh, S. A.; and Korsmeyer, R. W. Preparation of cyclohexanones and cyclopentanones of high optical purity. *J. Org. Chem.* 45: 4699, 1980.
19. Maas, R.L.; Roberts, L.J.; Taber, D.F.; Oates, J.A. Urinary dinor thromboxane B₂ levels in normal males and cardiovascular disease. *Clinical Res.* 28: A319-A319, 1980.
20. Taber, D. F.; Phillips, M. A.; and Hubbard, W. C. Preparation of deuterated arachidonic acid. *Prostaglandins*, 22: 349, 1981.
21. Taber, D. F.; Campbell, C.; Gunn, B. P.; Chiu, I.-C. The intramolecular Diels-Alder reaction: stereocontrol through non-synchronous bond formation? *Tetrahedron Lett.* 22: 5141, 1981.
22. Taber, D. F., and Saleh, S. A. Branching strategy in organic synthesis. II: Reversal of olefin polarization with concomitant carbon-carbon bond formation. *J. Org. Chem.* 46:4817, 1981.
23. Hubbard, W. C.; Phillips, M. A.; and Taber, D. F. Selective synthesis of octadeuterated ($\pm$)-5-HETE for use in GC-MS quantitation of 5-HETE. *Prostaglandins* 23: 61, 1982.
24. Taber, D. F.; Phillips, M. A.; and Hubbard, W. C. Preparation of deuterated

- arachidonic acid. *Methods in Enzymology*, Eds. W. E. Lands and W. L. Smith, New York, NY, Academic Press, 1982. V. 86, p. 366.
25. Maas, R. L.; Taber, D. F.; and Roberts, L. J., II. Quantitative assay of urinary 2,3-dinorthromboxane B₂ by GC-MS. *Methods in Enzymology*, Eds. W. E. Lands and W. L. Smith, New York, NY, Academic Press, 1982. V. 86, p. 592.
 26. Taber, D. F. TLC mesh column chromatography. *J. Org. Chem.* 47: 1351, 1982.
 27. Taber, D. F., and Saleh, S. A. Control elements in the intramolecular Diels-Alder reactions: synthesis of α -eudesmol. *Tetrahedron Lett.* 23: 2361, 1982.
 28. Maas, R.L.; Ingram, C. D.; Taber, D. F.; Oates, J. A.; and Brash, A. R. Stereospecific removal of the D(R) hydrogen atom at the 10-carbon of arachidonic acid in the biosynthesis of leukotriene A₄ by human leukocytes. *J. Biol. Chem.* 257: 13515, 1982.
 29. Taber, D. F., and Petty, E. H. A general route to highly functionalized cyclopentane derivatives by intramolecular C-H insertion. *J. Org. Chem.* 47: 4808, 1982.
 30. Taber, D. F.; Gunn, B. P.; and Chiu, I.-C. Preparation of 2-heptyl cyclohexenone. *Org. Syn.* 61: 59, 1983. Coll. Vol. VII, p. 249 (1990).
 31. Hubbard, W. C., and Taber, D. F. Analysis of hydroxy acids, *Proceedings of the Ninth International School of Pharmacology: Prostaglandins and Leukotrienes*, Plenum, 1983.
 32. Taber, D. F., and Raman, K. Enantioselective carbocyclization: a facile route to chiral cyclopentanes. *J. Am. Chem. Soc.* 105: 5935, 1983.
 33. Taber, D. F.; Krewson, K. R.; Raman, K.; and Rheingold, A. L. On the stereochemical course of cuprate-mediated addition to an activated cyclopropane. *Tetrahedron Lett.* 25: 5283, 1984.
 34. Taber, D. F.; Petty, E. H.; and Raman, K. Enantioselective ring construction: synthesis of (+)- α -cuparenone. *J. Am. Chem. Soc.*, 107: 196, 1985.
 35. Maas, R. L.; Ingram, C. D.; Porter, A. T.; Oates, J. A.; Taber, D. F.; and Brash, A. R. Investigation of the chemical conversion of hydroperoxyeicosatetraenoate to leukotriene epoxide using stereospecifically labelled arachidonic acid. *J. Biol. Chem.* 260: 4217, 1985.
 36. Taber, D. F.; Dunn, B. S.; Mack, J. F.; and Saleh, S. A. Ortho allylation of benzyl alcohols. *J. Org. Chem.* 50: 1987, 1985.

37. Taber, D. F., and Ruckle, R. E., Jr. Diastereoselection in rhodium-mediated intramolecular C-H insertion: preparation of a trans-3,4-dialkylcyclopentane. *Tetrahedron Lett.* 26: 3059, 1985.
38. Taber, D. F., and Schuchardt, J. S. Intramolecular C-H insertion: synthesis of (±)-pentalenolactone E methyl ester. *J. Am. Chem. Soc.* 107: 5289, 1985.
39. Taber, D. F.; Amedio, J. C., Jr.; and Patel, Y. K. Preparation of β-ketoesters by 4-DMAP catalyzed ester exchange. *J. Org. Chem.* 50: 3618, 1985.
40. Taber, D. F.; Amedio, J. C., Jr.; and Sherrill, R. G. Pd-mediated diazo insertions: preparation of 3-alkyl 2-carbomethoxy cyclopentenones. *J. Org. Chem.* 51: 3382, 1986.
41. Taber, D. F.; Ruckle, Robert E., Jr.; Hennessy, Michael J.: Mesyl azide, a superior reagent for diazo transfer. *J. Org. Chem.* 51: 4077, 1986.
42. Taber, D. F., and Ruckle, Robert E., Jr.: Cyclopentane construction by Rh₂(OAc)₄-mediated intramolecular C-H insertion: steric and electronic effects. *J. Am. Chem. Soc.* 108: 7686, 1986.
43. Taber, D. F., Raman, K. and Gaul, M.D. Enantioselective ring construction: synthesis of (+)-estrone methyl ether. *J. Org. Chem.* 52: 28, 1987.
44. Taber, D. F. and Schuchardt, J. S. Symmetry in retrosynthetic analysis: synthesis of pentalenolactone E methyl ester. *Tetrahedron* 43: 5677, 1987.
45. Prakash, C.; Roberts, L. J. II; Saleh, S. A.; Taber, D. F.; and Blair, I. A. Synthesis of Putative Prostaglandin D₂ Metabolites. *Advances in Prostaglandin, Thromboxane and Leukotriene Research*, Samuelsson, B., Paoletti, R., and Ramswell, P. W., Eds., Raven Press, NY, 1987, V. 17, p. 781.
46. Taber, D. F.; Dekker, P. B.; and Gaul, M. D. Enantioselective construction of dialkylcarbinols: synthesis of (-)-hexadecanolide. *J. Am. Chem. Soc.* 109, 7488, 1987.
47. Taber, D. F.; Amedio, J. C., Jr.; and Jung, K.-Y. P₂O₅/DMSO/Triethylamine (PDT): a convenient procedure for oxidation of alcohols to ketones and aldehydes. *J. Org. Chem.* 52: 5621, 1987.
48. Taber, D.F.; Dekker, P.B.; Fales, H.M.; Jones, T.H.; and Lloyd, H.A. Enantioselective construction of heterocycles: synthesis of (R,R)-solenopsin B. *J. Org. Chem.* 53: 2968, 1988.
49. Taber, D. F.; Amedio, J.C., Jr.; Raman, K. Enantioselective ring construction with control of side-chain stereochemistry: synthesis of (+)-isoneonepetalactone. *J.*

Org. Chem. 53:2984-2990, 1988.

50. Prakash, P.; Saleh, S.; Roberts, L.J. III; Blair, I.A.; Taber, D.F. Synthesis of the major urinary metabolite of prostaglandin D₂. J. Chem. Soc. Perkin Trans. I, 1988, 2821.
51. RajanBabu, T. V.; Nugent, W.A.; Taber, D. F.; Fagan, P. J. Stereoselective cyclization of enynes mediated by metallocene reagents. J. Am. Chem. Soc. 110: 7128, 1988.
52. Prakash, C.; Saleh, S.; Sweetman, B. J.; Taber, D. F.; Blair, I. A. A synthon for C-20 trideuterated eicosanoids: Preparation of [²H₃]-arachidonic acid. J. Labelled Cmpds. and Radiopharm. XXVII: 539, 1989
53. Taber, D. F.; Amedio, J. C.; Jr.; Gulino, F. Selective decarbalkoxylation of β-keto esters. J. Org. Chem. 54: 3474, 1989.
54. Taber, D. F. Mack, J. F., Rheingold, A. L. and Geib, S. J. Enantioselective Robinson annulation: synthesis of (+)-O-methyljoubertiamine. J. Org. Chem. 54: 3831, 1989.
55. Nugent, W. A. and Taber, D. F. Zirconium-mediated ring construction from dienes: remarkable effect of ligands on stereochemistry. J. Am. Chem. Soc. 111: 6435, 1989.
56. Prakash, C.; Saleh, S.; Taber, D. F.; Blair, I. A. Synthesis of trideuterated o-alkyl platelet activating factor and lyso derivatives. Lipids 24: 786, 1989.
57. Prakash, C.; Saleh, S.; Taber, D.F.; Blair, I.A. A practical route for the synthesis of prostaglandin D₂ metabolites. Syn. Comm. 19: 245, 1989.
58. Nugent, W.A.; RajanBabu, T.V.; Taber, D.F. "One-Electron" vs. "Two-Electron" cyclizations mediated by titanium and zirconium reagents *Chemica Scripta* 29: 439 (1989).
59. Prakash, C.; Saleh, S.; Taber, D. F.; Wilkinson, Grant R.; Blair, I. A. Deuterium labelling of the antidepressant drug doxepin for disposition studies in human subjects. J. Labelled Cmpds. and Radiopharm. XXVIII: 1037, 1990
60. Taber, D.F.; Hoerrner, R.S. Column Chromatography: Isolation of Caffeine J. Chem. Educ. 68: 73-73. (1991).
61. Taber, D.F.; Hoerrner, R.S.; Hagen, M.D. A practical preparation of the indolizidine nucleus: Synthesis of (±)-elaecanine A. J. Org. Chem. 56: 1287, 1991.

62. Taber, D.F.; Silverberg, L.J. Enantioselective reduction of β -keto esters. *Tetrahedron Letters* 32: 4227, 1991.
63. Taber, D.F.; Silverberg, L.J.; Robinson, E.D. Cyclopentane construction with control of side-chain configuration: Synthesis of (+)-brefeldin A. *J. Am. Chem. Soc.* 113: 6639, 1991.
64. Taber, D.F.; Hennessy, M.J.; Louey, J.P. Rh-mediated cyclopentane construction can compete with β -hydride elimination: Synthesis of ($\pm$)-tochuinyl acetate. *J. Org. Chem.* 57:436, 1992.
65. Taber, D.F.; Hoerrner, R.S. Enantioselective Rh-mediated synthesis of (-)-PGE₂ methyl ester. *J. Org. Chem.* 57: 441, 1992.
66. Taber, D.F.; Stachel, S.J. On the mechanism of the Wolff-Kishner reduction. *Tetrahedron Lett.* 33: 903, 1992.
67. Taber, D.F.; Rahimizadeh, M. Amide to ester conversion: A practical route to the carfentanil class of analgetics. *J. Org. Chem.* 57: 4037, 1992.
68. Taber, D.F.; Deker, P.B.; Silverberg, L.J. Enantioselective Ru-mediated synthesis of (-)- indolizidine 223AB. *J. Org. Chem.* 57: 5990, 1992.
69. Taber, D.F.; Meagley, R.P. Synthesis of 2-chloroethyl (¹³C)- methyl sulfide. *J. Labelled Cmpds. and Radiopharm.* 31: 849, 1992.
70. Taber, D.F. On the attempted synthesis of 3 β -hydroxy-7 β -kemp-8(9)-en-6-one. *Tetrahedron Letters* 34: 1833, 1993.
71. Taber, D.F.; Louey, J.P.; Lim, J.A. On the reversibility of alkene cyclozirconation. *Tetrahedron Letters* 34: 2243, 1993.
72. Taber, D.F.; Wang, Y. Stachel, S.J. Alkyl radical generation by reduction of a ketone tosylhydrazone. *Tetrahedron Letters* 34: 6209, 1993.
73. Taber, D.F.; Wang, Y. Preparation of 2-chloroethyl-1,1-d₂ phenyl sulfide without appreciable scrambling. *J. Org. Chem.* 58: 6470, 1993.
74. Taber, D.F.; Bhamidipati, R.S.; Thomas, M.L. Cascade cyclization: Synthesis of (+)- tubarine. *J. Org. Chem.* 59: 3442, 1994.
75. Taber, D.F.; You, K. Synthesis of ethyl $\square$ -²H₅-docosa-4,7,10,13,16,19-hexaenoate. *J. Labelled Cmpds. and Radiopharm.* 34: 747, 1994.

76. Taber, D.F.; Houze, J.B. The 2-hydroxycitronellols, convenient chirons for natural products synthesis. *J. Org. Chem.* 59: 4004-4006, 1994.
77. Taber, D.F.; Walter, R.; Meagley, R.P. Intramolecular C-H insertion by an alkylidenecarbene: diastereoselective synthesis of a taxol A ring synthon. *J. Org. Chem.* 59: 6014-6017, 1994.
78. Taber, D.F.; Louey, J.P.; Wang, Y.; Nugent, W.A.; Dixon, D.A.; Harlow, R.L. Stereoselectivity in intramolecular diene cyclozirconation: A combined experimental and theoretical approach. *J. Am. Chem. Soc.* 116: 9457, 1994.
79. Taber, D.F.; Meagley, R.P. Diastereoselectivity in uncatalyzed intramolecular C-H insertion by an alkylidene carbene. *Tetrahedron Lett.* 35: 7909, 1994.
80. Taber, D.F.; Rahimizadeh, M. Hexasubstituted benzenes by alkyne cyclotrimerization. *Tetrahedron Lett.* 35: 9139, 1994.
81. Taber, D.F.; You, K. New synthon for the convergent construction of skipped conjugation polyenes: Synthesis of Ethyl Docosa-4,7, 10, 13, 16, 19-hexaenoate. *J. Org. Chem.* 60: 139, 1995.
82. Taber, D.F.; Yet, L.; Bhamidipati, R.S. Conversion of phenyldimethylsilyl to the hydroxyl in the presence of a carbon-carbon double bond. *Tetrahedron Lett.* 36: 351, 1995.
83. Taber, D.F.; Rahimizadeh, M.; You, K.K. Enantioselective synthesis of the Dendrobatid alkaloid (-)-Indolizidine 207A. *J. Org. Chem.* 60: 529 (1995).
84. Taber, D.F.; You, K.; Song, Y. A simple preparation of α -diazo esters. *J. Org. Chem.* 60: 1093 (1995).
85. Taber, D.F.; Song, Y. 2,3,5-Trisubstituted tetrahydrofurans by Rh-mediated cyclization of an α -diazo ester. *Tetrahedron Lett.* 36: 2587 (1995).
86. Taber, D.F.; Gleave, D.M.; Herr, R.J.; Moody, K.; Hennessy, M.J. A new method for the construction of α -diazoketones *J. Org. Chem.* 60: 2283 (1995).
87. Taber, D.F.; Louey, J. P. 1,2-Induction in intramolecular diene cyclozirconation: Control of relative configuration. *Tetrahedron* 51: 4495 (1995).
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Patents

“Treatment of osteoporosis and autoimmune disease with astrogorgiadiol”
US7345035 issued March 18, 2008

“Methods of making stable, homogenous potassium hydride dispersions” Filed Feb 4,
2010 U.S. Appln. No 12/700,161

“An -NH- terminated silicon surface and a method for its preparation” Submitted Oct

2011 U.S. Appln. No. 61/416,959

Books

Taber, D.F. Intramolecular Diels-Alder and Alder Ene Reactions, V. 18 of Reactivity and Structure Concepts in Organic Chemistry, Springer-Verlag, New York, 1984.

Bell, C.E., Jr.; Clark, A.K.; Taber, D.F.; Rodig, O.R. Organic Chemistry Laboratory: Standard & Microscale Experiments, 2nd Ed. Saunders College Publishing, Philadelphia, 1996.

Bell, C.E., Jr.; Taber, D.F.; Clark, A.K. Organic Chemistry Laboratory: Standard & Microscale Experiments, 3rd Ed. Harcourt College Publishers, Orlando, Florida, 2001.

Taber, D.F. Organic Synthesis: State of the Art 2003-2005, Wiley, New York, 2006

Taber, D. F. Organic Spectroscopic Structure Determination: A problem-based learning approach, Oxford University Press, New York, 2007.

Taber, D.F. Organic Synthesis: State of the Art 2005-2007 Wiley, New York, 2008

Taber, D. F. Organic Synthesis: State of the Art 2007-2009, Oxford University Press, New York, 2011.

Taber, D. F. Organic Synthesis: State of the Art 2009-2011, Oxford University Press, New York, 2013.

Taber, D. F. and Lambert, T. Organic Synthesis: State of the Art 2011-2013, Oxford University Press, New York, 2015.

Taber, D. F. and Lambert, T. Organic Synthesis: State of the Art 2013-2015, Oxford University Press, New York, 2016.

Taber, D. F. Organic Synthesis: State of the Art 2015-2017, Sheridan Publishing, Chelsea, MI, 2018.

Taber, D. F. Organic Synthesis: State of the Art 2017-2019, Sheridan Publishing, Chelsea, MI, 2020.

Taber, D. F. Organic Synthesis: State of the Art 2019-2021, Sheridan Publishing, Chelsea, MI, 2022.

Contributed Chapters

Taber, D.F.; Hennessy, M.J.; Hoerner, R.S.; Raman, K.; Ruckle, R.E., Jr.; Schuchardt, J.S. Cyclopentane Construction by Rh-Catalyzed Intramolecular C-H Insertion: Scope and Selectivity. in Catalysis of Organic Reactions, Blackburn, D.W., Ed. Marcel Dekker, Inc., New York, 1990, pp. 43-60.

Taber, D.F. Carbon-Carbon Bond Formation by C-H Insertion. Comprehensive Organic Synthesis, V. 3, Pattenden, G. Ed., Pergamon Press, Oxford, 1991.

Taber, D.F.; Askani, R. Synthesis of Nitro, Nitroso and Related Compounds. Comprehensive Organic Synthesis, V. 6, Winterfeldt, E. Ed., Pergamon Press, Oxford, 1991.

Taber, D.F. Formation of C-C Bonds by C-H Insertion. Houben-Weyl, Methods of Organic Chemistry, V. E21, Helmchen, G. Ed., Georg Thiem Verlag, Stuttgart, 1995, p. 1127.

Taber, D.F.; Stiriba, S.-E. Natural Product Synthesis by Rh-Mediated Intramolecular C-H Insertion Organic Synthesis Highlights IV, H.-G. Schmalz, Ed. Wiley-VCH, Weinheim, 2000.

Taber, D.F.; Louey, J.P.; Wang, Y.; Zhang, W. Cyclometallation of a Computationally Designed Diene: Synthesis of (-)-Androst-4-ene-3,16-dione Computational Organometallic Chemistry, T.R. Cundari, Ed. . Marcel Dekker, Inc., New York, 2001, pp. 205-216.

Taber, D.F.; Lahuerta, P.; Louey, J.P.; Malcolm, S.C.; Meagley, R.P.; Stiriba, S.-e.; You, K.K. Rhodium-Mediated Intramolecular C-H Insertion: Probing the Geometry of the Transition State. Computational Organometallic Chemistry, T.R. Cundari, Ed. . Marcel Dekker, Inc., New York, 2001, pp. 217-236.

Taber, D.F.; Joshi, P. V. Cyclopentane Construction by Rhodium(II)-Mediated Intramolecular C-H Insertion. Modern Rhodium-Catalyzed Organic Reactions. P. A. Evans, Ed. Wiley-VCH, Weinheim, 2005. pp. 357-377.

Invited Lectures

- 1976 Vanderbilt University August 1
- 1977 Vanderbilt University Medical School February 8
- 1977 Vanderbilt University March 17
- University of Oklahoma April 14
- Vanderbilt University September 14
- 1979 Gordon Research Conference on Natural Products July 27
- 1980 Vanderbilt University January 24
- University of Utah July 29
- Utah State University August 7
- 1982 Dupont Experimental Station, Wilmington, DE, January 26
- University of Delaware January 27
- Vanderbilt University February 25
- Oklahoma State University March 12
- Johns Hopkins University, Baltimore, MD, October 13
- Temple University, Philadelphia, PA, October 21
- ICI Americas, Wilmington, DE, November 2
- 1983 NIADDK-NHLBI Organic Chemistry Discussion Group, Jan 4
- Vanderbilt University, Nashville, TN, March 31
- 1984 Symposium, "Latest Trends in Organic Synthesis," Blacksburg, VA, May 30
- Columbia University, New York, NY, July 5
- Millersville University, Millersville, PA, October 10
- Dupont Experimental Station, Wilmington, DE, November

St. Joseph's University, Philadelphia, PA, November 28

1985 Rutgers, Newark, NJ, March 28

Schering Corporation, Bloomfield, NJ, April 17

Philadelphia Organic Chemists' Club, Philadelphia, PA,

Tohoku College of Pharmacy, Sendai, Japan, July 9

University of Tokyo, Tokyo, Japan, July 17

Tokyo Institute of Technology, Tokyo, Japan, July 19

SUNY Stony Brook, Stony Brook, NY, October 3

CUNY, Queens College, Flushing, NY, October 23

Aberdeen Proving Ground, MD, October 30

University of Virginia, Charlottesville, VA, November 1

Dickinson College, Carlisle, PA, November 15

1986 College of William and Mary, Williamsburg, VA, Jan 17

Hoffmann-LaRoche, Nutley, NJ, January 23

Lederle Laboratories, Pearl River, NY, January 24

Sandoz Research Institute, East Hanover, NJ, March 31

University of Grenoble, Grenoble, France, May 23

ETH, Zurich, Switzerland, June 2

Ruprecht-Karls Univ., Heidelberg, W. Germany, June 4

University of Reims, Reims, France, June 5

Dupont Central Research, Wilmington, DE, August 26

Susquehanna Valley Section, ACS, Wilkes-Barre, PA,

Stuart Pharmaceuticals, Wilmington, DE, December 9 1

1987 Dupont Biomedical Products, Wilmington, DE, March 25

Givaudan Corporation, Clifton, NJ, March 27

Bryn Mawr College, Bryn Mawr, PA, April 10

Middle Atlantic Regional Meeting, ACS, Pomona, NJ, May

American Cyanamid, Bound Brook, NJ June

Shippensburg University, Shippensburg, PA October 23
 Dupont Jackson Labs, Deepwater, NJ October 30
 University of Rochester, Rochester, NY, December 2
 1988 Pennsylvania State University, State College, PA,
 University of Houston, Houston, TX, April 22
 Organic Reactions Catalysis Society, San Antonio, TX,
 Takasago International Corp., Tokyo, Japan, May 24
 Tokyo Institute of Technology, Tokyo, Japan, May 25
 Sagami Chemical Research Center, Kanagawa, Japan, May
 Kyoto Institute of Technology, Kyoto, Japan, June 3
 Kyushu Symposium on Natural Products Chemistry,
 Kyushu University, Fukuoka, Japan, June 7
 Du Pont Central Research, Wilmington, DE, September 23
 Kansas State University, Manhattan, KS, November 3
 University of Kansas, Lawrence, Kansas, November 4
 1989 CRDCC, U. S. Army, Aberdeen, MD, January 19
 Hunter College, New York, NY, March 3
 Ciba-Geigy, Summit, NJ, April 6
 Ciba-Geigy, Basel, Switzerland, May 9
 Howard University, Washington, D.C., Sept. 15
 SUNY, Binghamton, NY, October 20
 Allergan, Inc., Irvine, CA., November 3
 Kyowa Hakko Co., Shizuoka, Japan, November 6
 Nagoya University, Nagoya, Japan, November 7
 International Symposium on Carbene Chemistry, Kyoto Japan, Nov. 9
 Southeast Regional Meeting, ACS, Baton Rouge, LA,
 1990 Lycoming College, Williamsport, PA, Feb. 14
 UMBC, Baltimore, MD, March 6
 Emory University, Atlanta, GA, April 17
 Middle Atlantic Regional Meeting, ACS, Madison, NJ,

Eli Lilly & Co., Indianapolis, IN, June 26
Rutgers University, Newark, NJ, October 11
University of Pennsylvania, Philadelphia, October 29
1991 New York Academy of Sciences, New York, NY Jan 8
Brigham Young University, Provo, Utah March 21
Hoffmann-La Roche, Basel, August 19
University of Basel August 20
University of Konstanz August 21
Academy of Sciences, Berlin, August 23
1992 Columbia University, New York, Jan 16
Dupont Central Research & Development, Feb 14
Allergan, Inc., Irvine, CA, 10 March
Stanford University, Stanford, CA April 22
ICI Americas, Richmond, CA April 23
Texas A&M, College Station, TX May 13
University of Monterrey, Mexico June 12
Adelphi University, Garden City, NY Sep 17
University of Maryland, College Park, MD Sep 22
Fordham University, Bronx, NY Oct. 20
Georgetown University, Washington, D.C. Oct.27
Crystal City,
1993 E. Stroudsburg State Univ.; East Stroudsburg, PA Feb. 2
ACS National Meeting, Denver, March 29
Peking University, Beijing, June 7
USA-Japan-China Symposium on Catalysis, Beijing, June 10
Shanghai Institute of Organic Chemistry, June 16

Fudan University, Shanghai, June 17

SUNY Albany Oct 5

SUNY Stony Brook Oct 28

Scientific Conference on Chemical Defense Research, Aberdeen, MD Nov

1994 Syracuse University, Syracuse, NY Sep 20

Western Maryland College, November 28

SmithKline Beecham, King of Prussia, PA Dec 6

University of Delaware, Newark, DE Dec 7

1995 Syntex Pharmaceuticals, Palo Alto, CA April 20

University of California, Davis April 21

DuPont Central Research April 24

78th Canadian Society for Chemistry Conference and Exhibition, Guelph, May 31
(Invited speaker)

Drexel University, Philadelphia, PA June 7

Swarthmore College, Swarthmore, PA September 25

Dupont Merck Pharmaceuticals, Deepwater, NJ Oct 3

Rensselaer Polytechnic, Troy, NY Oct 12

GE Central Research, Schenectady, NY Oct 13

University of Victoria, Victoria, BC Oct 19

University of British Columbia, Vancouver, BC Oct 20

The Upjohn Company, Kalamazoo, Michigan Nov 10

1996 Towson State University, Towson, MD April 18

Middle Atlantic Regional Meeting, American Chemical Society, Villanova, PA
(Invited speaker)

SIPSYS, Avrille, France, June 25
Ecole Nationale Supérieure, Paris, June 26
Gif-sur-Yvette, June 28th
International Conference on Organic Synthesis, Amsterdam, June 30- July 4
(Invited speaker)
14th Biennial Conference on Chemical Education, Clemson University, Aug 4-8
(Invited speaker)
Schering-Plough, Kenilworth, NJ, Sep. 26
Abbott Labs, Chicago, IL, Nov. 7
Rider College, Lawrenceville, NJ, Nov. 18

1997 Pharmacopeia, Inc., Princeton, NJ Jan. 16
Manhattan College, New York City, Jan. 22
North Jersey ACS Organic Section, Union College, Cranford, NJ April 28
Bryn Mawr College, Bryn Mawr, PA Oct. 3rd
Southeast Regional Meeting, American Chemical Society, Roanoke, VA, Oct. 21
(Invited speaker)
IUPAC International Conference on Biodiversity and Bioresources, Phuket, Thailand
(Invited speaker)
Rowan University, Glassboro, NJ December 2

1998 Dickinson College, Carlisle, PA March 5
U. of Barcelona, Spain June 30
Johnson-Matthey, West Deptford, NJ August 13
ACS National Meeting, Boston, MA August 26 (invited speaker)
Lafayette College, Easton, PA September 8
Symposium, "Latest Trends in Organic Synthesis," Gainesville, FL, Oct 30
(invited speaker)
Smith Kline Beecham, November 17

1999 University of Hong Kong January 15
Chinese University of Hong Kong January 19

University of Science and Technology, Hong Kong January 20

Middle Atlantic Regional Meeting, American Chemical Society, May 17 (invited speaker)

Organometallics in Organic Synthesis (OMCOS), Versailles, France July 21 (invited speaker)

Gordon Research Conference on Natural Products, Henniker, NH July 26 (invited speaker)

University of Delaware, Newark, Sep. 17

Elizabethtown College, Elizabethtown, PA Sept. 29

Franklin & Marshall College, Lancaster, PA Sept. 29

Florida State University, Tallahassee, Oct. 5

SERMACS (Southeast Regional Meeting), Knoxville, TN Oct. 19 (invited speaker)

Sloan-Kettering, New York, NY Oct. 26

Salisbury State University, Salisbury, MD Nov. 2

2000 National Institutes of Health, Bethesda, MD March 9

International Conference on Organic Synthesis, Warsaw, July 1- July 5 (Invited speaker)

Stockton State University, Pomona, NJ Oct. 9

Johns Hopkins University, Baltimore, MD Oct 10

2001 Brigham Young University, Provo, UT January 24

Reed College, Portland, OR January 26

Oregon State University, Corvallis, OR January 29

Wyeth-Ayerst, Pearl River, NY March 29

CB Research, New Castle, DE June 12

OMCOS-11, Taipei, Taiwan July 23

Research Review, Center for Catalytic Science and Technology, University of Delaware, Oct.11

Indiana U. of Pennsylvania, Indiana, PA Nov. 7

Allegheny College, Meadville, PA Nov. 8

Edinboro U. of Pennsylvania, Edinboro, PA Nov. 8

Duquesne University, Pittsburgh, PA Nov. 9

Ursinus College, Collegeville, PA Nov. 16

2002 South China Agricultural University, Guangzhou, Jan. 7

Temple University, Philadelphia, PA March 28

Sphinx Pharmaceuticals, Research Triangle Park, NC June 7

UC Irvine, Sept. 12

Scripps Institute, San Diego, CA Sept. 13

CalTech, Pasadena, CA Sept. 16

2003 KAIST, Daejon, Korea March 17

Korea University, Seoul, March 19

Seoul National University, March 20

ACS National Meeting, New Orleans, March 24

Philadelphia Organic Chemists' Club, April 24 (invited speaker)

Salisbury University, Nov. 5

2004 Rutgers University, January 20

Lehigh University, February 4

Concurrent Pharmaceuticals, February 12

ACS National Meeting, Anaheim, March 29 (invited speaker)

Bristol-Myers Squibb, New Brunswick, NJ June 3

International Conference, Chemistry Biology Interface: Synergistic New
Frontiers, Delhi, India, Nov. 22-77 (plenary lecturer)

2005 Rowan University Feb 28

Symposium on the Chemistry and Biology of Biomolecules, Montpellier, France
March 20-25 (invited speaker)

UT Southwestern, Dallas Sep 21

Southern Methodist University, Dallas, TX September 22

UT Arlington, Arlington, TX September 23

Singapore International Chemical Conference 4 Dec. 8-10 (invited speaker)

2006 Lilly Pharmaceuticals, Indianapolis, IN Jan. 17

IUPUI, Indianapolis, IN Jan 18

Notre Dame University, South Bend, IN Jan 19

Merck Process, Rahway, NJ Feb. 1

ACS National Meeting, Atlanta, GA (invited speaker), H.C. Brown Award
Symposium, March 29

ACS Middle Atlantic Regional Meeting, Hershey, PA (invited symposium
speaker), June 4

Morgan State University, Oct. 9

2007 University of Oxford, April 24

University of Nottingham, April 25

Symposium on C-H Activation in Organic Synthesis, Loughborough, England,
April 26 (invited speaker)

AstraZeneca Macclesfield, April 27th

IUPAC Organometallics in Organic Synthesis, Nara, Japan August 2nd

University of the Sciences, Philadelphia Sept. 24th

Rochester Institute of Technology, Oct. 24th

2008

University of Munich Jan 16th

University of Illinois, Chicago March 13

Infinity Pharmaceuticals, Cambridge, MA June 24

University of Florence July 7

2008 Lead speaker, Symposium “Innovations in the Organic Chemistry Curriculum” 20th Biennial Conference on Chemical Education, Bloomington, IN July 2008

2009

University of Delaware March 6th

Schering-Plough April 16th

2nd Pennsylvania Organic Chemistry Curriculum Development Conference, Immaculata University, Immaculata, PA May 27th (invited speaker)

Invited speaker, meeting on the Schweinfurthins and Related Natural Products, NIH/Frederick, December 11, 2009

2010

West China School of Pharmacy, Chengdu, May 10th

USTC, Hefei, May 13th

University of Science and Technology, Qingdao, May 15th

Institute of Materia Medica, Beijing, May 17th

Peking University, Beijing, May 18th

1st Annual World Congress of Catalytic Asymmetric Synthesis-2010, Beijing, May 20th (invited speaker)

University of Utah, Salt Lake City, UT June 11th

ACS National Meeting, Boston, August 21st (invited speaker)

Cephalon, Inc. West Chester, PA Oct. 26th

PacifiChem, Honolulu, December 15, 19

2011

Fifth International Symposium "The Chemistry of Aliphatic Diazo Compounds: Advances and Outlook" St. Petersburg, Russia, June 7-8 (Invited Speaker)

Gordon Research Conference on Natural Products, July 24-29 (Invited Speaker)

West Virginia University, Oct 5

Philadelphia Organic Chemists Club, Oct 27 (Allan R. Day Award)

University of New Orleans, Nov 11

2013

University of Delaware May 10th

2014

Short course, University of Science and Technology of China, Hefei, June 23-26

2015

1st International Caparica Christmas Conference on Translational Chemistry, Portugal December 8th

2016

23rd Conference on Isoprenoids, Minsk, Belarus September 5th

2020

International Conference on Chemical Science for Drug Discovery & Therapy, VNIT Nagpur, India July 22-26 (online)

2022

Egyptian 5th International Conference on Chemistry Marsa Alam Oct 25-28