

P. Andrew Evans

Date of Birth:

June 20, 1964

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Education:

- Sept. 1987 to Feb. 1991 Department of Chemistry, Cambridge University, Cambridge, U.K.
Ph.D. in Organic Chemistry with Professor A. B. Holmes, FRS
“Monocyclic Medium Ring Azacycles”
- Sept. 1983 to July 1987 Department of Chemistry, Newcastle Polytechnic, Newcastle, U.K.
B.Sc. with First Class Honors in Applied Chemistry.
- Sept. 1977 to July 1982 Ysgol Rhiwabon, Ruabon, Clwyd, U.K.
'O' levels:- Chemistry, Physics, Biology, Design Craft and Technology,
Geography, Mathematics, English Literature and English Language.
'A' levels:- Chemistry, Physics and Biology.

Professional Experience:

- July 2006 to Present Department of Chemistry, The University of Liverpool, Liverpool,
L69 7ZD, U.K.
Professor and Heath Harrison Chair of Organic Chemistry
- Jan. 2001 to June 2006 Department of Chemistry, Indiana University, Bloomington, IN 47405.
Professor
- May. 2000 to Dec 2000 Department of Chemistry and Biochemistry, University of Delaware,
DE 19716
Professor
- Sept. 1999 to April 2000 Department of Chemistry and Biochemistry, University of Delaware,
DE 19716
Associate Professor

Résumé of P. Andrew Evans

- Aug. 1993 to Sept. 1999 Department of Chemistry and Biochemistry, University of Delaware,
DE 19716
Assistant Professor
- Research Areas:* The development of new synthetic methodology and its application to
biologically important natural products.
- May 1991 to July 1993 Department of Chemistry and Biochemistry, University of Texas at
Austin, Austin, TX.
*N.A.T.O. Postdoctoral Research Fellow with Professor P. D. Magnus,
FRS*
- Research Areas:* The development of new trialkylsilyl enol ether chemistry and its
application to the total synthesis of the natural product pancratistatin.
- Sept. 1985 to Aug. 1986 Beecham Pharmaceuticals, Brockham Park, Surrey, U.K.
Sandwich Student in Development Chemistry.
- Responsibilities:* Synthesis of important synthetic intermediates, and the development
an industrially viable synthetic route for a novel penem of therapeutic
interest.
- Honors and Awards:**
- January 2007 *2007 Novartis Chemistry Lectureship* awarded by Novartis Pharma
AG, Basel, CH.
- March 2006 *Royal Society Wolfson Research Merit Award* awarded by The Royal
Society, London, UK.
- Jan. 2002 *Pfizer Award for Creativity in Organic Chemistry* from Pfizer GRD,
Groton, CT.
- May 2001 *Johnson & Johnson Focused Giving Award* from Johnson and Johnson
Corporate Office, New Brunswick, NJ.
- Dec. 2000 *SFC-Rhodia Lecturer* awarded by the Organic Division of the French
Chemical Society, Paris, Fr.
- Oct. 2000 *Pfizer Distinguished Michigan Lecturer* awarded by Pfizer
Pharmaceuticals, Ann Arbor, MI.
- March 2000 *Novartis Academic Achievement Award* from Novartis, Summit, NJ.
- Sept. 1999 *GlaxoWellcome Chemistry Scholar Award* from GlaxoWellcome
Pharmaceuticals, Research Triangle Park, NC.
- Aug. 1998 *Eli Lilly Grantee Award* from Eli Lilly Laboratories, Indianapolis, IN.
- April 1998 *Camille and Dreyfus Teacher-Scholar Award* from the Camille and

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Henry Dreyfus Foundation, Inc., New York, NY.

- Nov. 1997 *Outstanding Young Scholar Award* from the Francis Alison Society at the University of Delaware, Newark, DE.
- Nov. 1997 *Excellence in Chemistry Award* from Zeneca Pharmaceuticals, Wilmington DE.
- April 1997 *NIH First Award* from the National Institutes of Health, Bethesda, MD.
- April 1990 *NATO Postdoctoral Fellowship* from the SERC Organic Chemistry Section, Swindon, U.K.
- Nov. 1987 *Best Research Project and Performance in the Final Year*; presented by Newcastle Polytechnic, Newcastle-upon-Tyne, U.K.
- Dec. 1986 *Promising Chemist Award*; presented by the North of England Section of the Royal Society of Chemistry, Newcastle-upon-Tyne, U.K.

Consulting:

- June 2000 to Jan. 2001 Guilford Pharmaceuticals, Baltimore, MD
- July 1998 to Jan. 2001 AstraZeneca Pharmaceuticals, Wilmington, DE
- May 1999 to May 2000 Parke-Davis Pharmaceuticals, Holland, MI
- Sept. 17, 1996 CEM-Innovators in Microwave Technology, Matthews, NC

Editorial Boards and Professional Service:

- June 11-12, 1996 CRDF-Chemical and Engineering Review Panel, Washington, DC
- Jan. 2003 to Present Board of Consulting Editors for *Tetrahedron* and *Tetrahedron Letters*
- Jan. 2003 to Dec. 2005 Member-at-Large, *ACS Division of Organic Chemistry*
- Oct. 8-9, 2003 Ad-Hoc Member, *NIH Med. Chem. Study Section*, Bethesda, MD
- March. 15, 2004 Ad-Hoc Member, *Special NIH Study Section*, Bethesda, MD.
- Jan. 2005 to Dec. 2007 US Associate Editor. *ChemComm*
- Jan. 2005 to Aug. 2007 Executive Officer of the *National Organic Symposium 2007*
- Oct. 2006 to Sep. 2008 Permanent Member, *NIH Study Section*, Bethesda, MD.
- June 2006 to Present Editorial Advisory Board for *Letters in Organic Chemistry*
- Jan. 2007 to Present Editorial Board, *ChemComm*
- Sept. 2008 to Present Chair-Elect, *ACS Division of Organic Chemistry*

Publications:

Ph.D. Research:

1. "Synthesis of Homochiral Unsaturated Seven-Membered Lactams"
P. A. Evans, A. B. Holmes and K. Russell, *Tetrahedron: Asymmetry* **1990**, *1*, 593.

2. "Asymmetric Synthesis of Unsaturated Medium Ring Heterocycles and Applications to the Synthesis of Natural Products"
N. R. Curtis, P. A. Evans, A. B. Holmes, M. G. Looney, N. D. Pearson, and G. C. Slim, in *Chirality in Drug Design and Synthesis*, Ed. C. Brown, Academic Press, London, **1990**, p 232.
3. "Medium Ring Heterocycles"
P. A. Evans and A. B. Holmes, *Tetrahedron* **1991**, *47*, 9131.
4. "Synthesis of Monocyclic Medium Ring Lactams"
P. A. Evans, A. B. Holmes, and K. Russell, *Tetrahedron Lett.* **1992**, *33*, 6857.
5. "Regio- and Stereoselective Functionalisation of Monocyclic Medium Ring Lactams"
P. A. Evans, I. Collins, P. Hamley, A. B. Holmes, K. Russell, and P. R. Raithby, *Tetrahedron Lett.* **1992**, *33*, 6859.
6. "New Synthetic Methodology for the Synthesis of 7-Substituted Tetrahydro-Azepin-2-ones"
P. A. Evans, A. B. Holmes, and K. Russell, *J. Chem. Soc. Perkin Trans. 1*, **1994**, 3397.
7. "The First Example of a Transoid Amide (Imide) in an Eight Membered Lactam"
P. A. Evans, A. B. Holmes, I. Collins, P. R. Raithby, and K. Russell, *J. Chem. Soc., Chem. Commun.* **1995**, 2325.
8. "New Methodology for the Synthesis of Unsaturated 8-, 9- and 10-Membered Lactams"
P. A. Evans, A. B. Holmes, R. P. McGeary, A. Nadin, K. Russell, P. J. O'Hanlon, and N. D. Pearson, *J. Chem. Soc. Perkin Trans. 1* **1996**, 123.

Postdoctoral Research:

9. "New Trialkylsilyl Enol Ether Chemistry: New Regiospecific Methodology for the Synthesis of α,β -Unsaturated Cyclic Ketones"
P. Magnus, A. Evans, and J. Lacour, *Tetrahedron Lett.* **1992**, *33*, 2933.
10. "New Trialkylsilyl Enol Ether Chemistry: β -Functionalization as a New Strategy in Organic Synthesis"
P. Magnus, J. Lacour, and P. A. Evans, *Janssen Chimica Acta.* **1993**, *11*, 3.
11. "Hypervalent Iodine Chemistry: New Oxidation Reactions Using the Iodosylbenzene-Trimethylsilylazide Reagent Combination. Direct α - and β -Azido-Functionalization of Triisopropylsilyl (TIPS) Enol Ethers"
P. Magnus, J. Lacour, P. A. Evans, M. B. Roe, C. Hulme, *J. Am. Chem. Soc.* **1996**, *118*, 3406.
12. "Applications of the β -Azidonation Reaction to Organic Synthesis. α,β -Enones, Conjugate Addition and γ -Lactam Annulation"

P. Magnus, J. Lacour, P. A. Evans, P. Rigollier, and H. Tobler, *J. Am. Chem. Soc.* **1998**, *120*, 12486.

Independent Research:

13. “Regioselective Preparation of α -Nitro Cyclohexyl Triisopropylsilyl Enol Ethers”
P. A. Evans and J. M. Longmire, *Tetrahedron Lett.* **1994**, *35*, 8345.
14. “Stereoselective Synthesis of *cis*-2,5-Disubstituted Tetrahydrofuran-3-ones *via* an Acyl Radical Cyclization”
P. A. Evans and J. D. Roseman, *Tetrahedron Lett.* **1995**, *36*, 31.
15. “An Improved Protocol for the Preparation of 2,6-Di(*tert*-butyl)-4-methylphenyl (BHT) Alkanoates”
P. A. Evans and A. L. Stanley, *Synth. Commun.* **1995**, *25*, 515.
16. “Directed Lithiation/Transmetalation Approach to Palladium Catalyzed Cross-Coupling Acylation Reactions”
P. A. Evans, J. D. Nelson, and A. L. Stanley, *J. Org. Chem.* **1995**, *60*, 2298.
17. “Regioselective Preparation of α,β -Unsaturated Ketones *via* the Direct Dehydrogenation of Triisopropylsilyl Enol Ethers”
P. A. Evans, J. M. Longmire, and D. P. Modi, *Tetrahedron Lett.* **1995**, *36*, 3985.
18. “Novel Approach to Lactams *via* (Triisopropylsilyl)azidoalcohol Formation and Photo-Induced Schmidt Rearrangement”
P. A. Evans and D. P. Modi, *J. Org. Chem.*, **1995**, *60*, 6662.
19. “Palladium Catalyzed Cross-Coupling Acylation Approach to the Antitumor Antibiotic Fredericamycin A”
P. A. Evans and T. A. Brandt, *Tetrahedron Lett.* **1996**, *37*, 1367.
20. “Stereoselective Synthesis of Cyclic Ethers *via* Intramolecular Acyl Radical Cyclizations: A Practical Solution to Decarbonylation”
P. A. Evans and J. D. Roseman, *J. Org. Chem.* **1996**, *61*, 2252.
21. “Diastereoselective Formation of Cyclic Acetals *via* an Intramolecular Fluoride-Catalyzed Hetero-Michael Reaction”
P. A. Evans and L. T. Garber, *Tetrahedron Lett.* **1996**, *37*, 2927.
22. “An Iterative Approach to Biologically Important Fused Polycyclic Ethers *via* Acyl Radical Cyclizations”
P. A. Evans, J. D. Roseman, and L. T. Garber, *J. Org. Chem.* **1996**, *61*, 4880.
23. “Novel Haloacetoxylation of 1,4-Dimethoxynaphthalenes using Hypervalent Iodine Chemistry”
P. A. Evans and T. A. Brandt, *Tetrahedron Lett.* **1996**, *37*, 6443.

24. "Stereoselective Synthesis of Dihydropyran-4-ones *via* a Formal Hetero Diels-Alder Reaction and Ceric Ammonium Nitrate Dehydrogenation"
P. A. Evans and J. D. Nelson, *J. Org. Chem.* **1996**, *61*, 7600.
25. "Direct Oxidation of Primary *tert*-Butyldimethylsilyl Ethers to Carboxylic Acids with Jones Reagent"
P. A. Evans, J. D. Roseman, and L. T. Garber, *Synth. Commun.* **1996**, *26*, 4685.
26. "Enantioselective Allylic Substitution using a Novel (Phosphino-1,3-Oxazine)Palladium Catalyst"
P. A. Evans and T. A. Brandt, *Tetrahedron Lett.* **1996**, *37*, 9143.
27. "Novel Wagner-Meerwein Rearrangement of a Bicyclo[3.3.1]heptanol under Mitsunobu Conditions"
P. A. Evans, J. D. Nelson and A. L. Rheingold *Tetrahedron Lett.* **1997**, *38*, 2235.
28. "Stereoselective Synthesis of the 2,6-Disubstituted Tetrahydropyran-3-ol of the Potent Antitumor Agent Mucocin *via* an Acyl Radical Cyclization"
P. A. Evans and J. D. Roseman, *Tetrahedron Lett.* **1997**, *38*, 5249.
29. "Hypervalent Iodine Chemistry: Mechanistic Investigation of the Novel Haloacetoxylation, Halogenation and Acetoxylation Reactions of 1,4-Dimethoxynaphthalenes"
P. A. Evans and T. A. Brandt *J. Org. Chem.* **1997**, *62*, 5321.
30. "Preparation and Palladium Mediated Cross-Coupling Reactions of *cis*-2,3-Disubstituted 5-Halo Dihydropyran-4-ones"
P. A. Evans, J. D. Nelson, and T. Manangan, *Synlett* **1997**, 968.
31. "Vinyllogous Sulfonates as Radical Acceptors for the Stereoselective Synthesis of Cyclic Ethers"
P. A. Evans and T. Manangan, *Tetrahedron Lett.* **1997**, *38*, 8165.
32. "Regioselective Rhodium Catalyzed Allylic Alkylation with a *Modified* Wilkinson's Catalyst"
P. A. Evans and J. D. Nelson, *Tetrahedron Lett.* **1998**, *39*, 1725.
33. "Conservation of Absolute Configuration in the Acyclic Rhodium Catalyzed Allylic Alkylation Reaction: Evidence for an *Enyl* ($\sigma+\pi$) Organorhodium Intermediate"
P. A. Evans and J. D. Nelson, *J. Am. Chem. Soc.* **1998**, *120*, 5581.
34. "Temporary Silicon-Tethered Ring-Closing Metathesis Approach to C_2 -Symmetric 1,4-Diols: Asymmetric Synthesis of D-Altritol"
P. A. Evans and V. S. Murthy, *J. Org. Chem.* **1998**, *63*, 6768.
35. "Enantioselective Synthesis of the 4-Hydroxy Buteneolide Terminus of Mucocin and Related Annonaceous Acetogenins"

- P. A. Evans and V. S. Murthy *Tetrahedron Lett.* **1998**, *39*, 9627.
36. “Enantioselective Construction of the Tetrahydropyran and Tetrahydrofuran Fragments of the Antitumor Agent Mucocin from a Common Intermediate”
P. A. Evans and V. S. Murthy *Tetrahedron Lett.* **1999**, *40*, 1253.
37. “Palladium-Catalyzed Rearrangement and Substitution Reactions of Acyclic Vinylogous Carbonates and Sulfonates: Development of a New Leaving Group for Pd-Allyl Chemistry”
P. A. Evans, T. A. Brandt and J. E. Robinson *Tetrahedron Lett.* **1999**, *40*, 3105.
38. “Enantiospecific Synthesis of Allylamines *via* the Regioselective Rhodium-Catalyzed Allylic Amination Reaction”
P. A. Evans, J. E. Robinson, and J. D. Nelson *J. Am. Chem. Soc.* **1999**, *121*, 6761.
39. “Enantioselective Total Synthesis of the Nonisoprenoid Sesquiterpene (–)-Kumausallene”
P. A. Evans, V. S. Murthy, J. D. Roseman and A. L. Rheingold *Angew. Chem. Int. Ed.* **1999**, *38*, 3175.
40. “Enantioselective Palladium-Catalyzed Allylic Alkylation with *E*- and *Z*-Vinylogous Sulfonates”
P. A. Evans and T. A. Brandt *Org. Lett.* **1999**, *1*, 1563.
41. “Regioselective Rh-Catalyzed Allylic Amination/Ring-Closing Metathesis Approach to Monocyclic Azacycles: Diastereospecific Construction of 2,5-Disubstituted Pyrrolines”
P. A. Evans and J. E. Robinson *Org. Lett.* **1999**, *1*, 1929.
42. “Regioselective and Enantiospecific Rhodium-Catalyzed Intermolecular Allylic Etherification with *Ortho*-Substituted Phenols
P. A. Evans and D. K. Leahy, *J. Am. Chem. Soc.* **2000**, *122*, 5012.
43. “Stereoselective Synthesis of Cyclic Ethers using Vinylogous Sulfonates as Radical Acceptors: Effect of *E/Z* Geometry and Temperature on Diastereoselectivity”
P. A. Evans and T. Manangan *J. Org. Chem.* **2000**, *65*, 4523.
44. “Enantiospecific and Regioselective Rhodium-Catalyzed Allylic Alkylation: Diastereoselective Approach to Quaternary Carbon Stereogenic Centers”
P. A. Evans and L. J. Kennedy *Org. Lett.* **2000**, *2*, 2213.
45. “Stereoselective Construction of *trans*-Disubstituted Azabicycles Using Oxauracil as a Novel Radical Acceptor”
P. A. Evans, T. Manangan and A. L. Rheingold *J. Am. Chem. Soc.* **2000**, *122*, 11009.
46. “Photo-Induced Ring-Expansion of 1-Triisopropylsilyloxy-1-azidoalcohol: Preparation of ϵ -Caprolactam”
J. D. Nelson, D. P. Modi and P. A. Evans *Org. Synth.* **2001**, *79*, 165.
47. “Regioselective Rhodium-Catalyzed Allylic Linchpin Cross-Coupling Reactions:

Diastereospecific Construction of *anti*-1,3-Carbon Stereogenic Centers and C₂-Symmetrical Fragments”

P. A. Evans and L. J. Kennedy *J. Am. Chem. Soc.* **2001**, *123*, 1234.

48. “Regio- and Diastereoselective Tandem Rhodium-Catalyzed Allylic Alkylation/Pauson-Khand Annulation Reactions”

P. A. Evans and J. E. Robinson *J. Am. Chem. Soc.* **2001**, *123*, 4609.

49. “Stereoselective Construction of the Azabicyclic Core Applicable to the Biologically Important Polyguanidinium Alkaloids Batzelladine A and D using a Free Radical Cyclization”

P. A. Evans and T. Manangan *Tetrahedron Lett.* **2001**, *42*, 6637.

50. “Regioselective Rhodium-Catalyzed Allylic Alkylation/Ring-Closing Metathesis Approach to Carbocycles”

P. A. Evans and L. J. Kennedy *Tetrahedron Lett.* **2001**, *42*, 7015.

51. “Regioselective and Enantiospecific Rhodium-Catalyzed Allylic Amination with *N*-(Arylsulfonyl)anilines”

P. A. Evans, K. K. Moffett and J. E. Robinson *Org. Lett.* **2001**, *3*, 3269.

52. “Intramolecular Addition of Acyl Radicals to α -Substituted Vinylogous Carbonates: Demonstrating the Effect of Ring Size on Acyclic Stereocontrol”

P. A. Evans, S. Raina and K. Ahsan *J. Chem. Soc., Chem. Commun.* **2001**, 2504.

53. “Regio- and Enantiospecific Rhodium-Catalyzed Allylic Etherification Reactions using Copper(I) Alkoxides: Influence of the Copper Halide Salt on Selectivity”

P. A. Evans and D. K. Leahy *J. Am. Chem. Soc.* **2002**, *124*, 7882.

54. “Intermolecular Transition Metal-Catalyzed [4+2+2] Cycloaddition Reactions: A New Approach to the Construction of Eight-Membered Rings”

P. A. Evans, J. E. Robinson, E. W. Baum and A. N. Fazal *J. Am. Chem. Soc.* **2002**, *124*, 8782.

55. “Recent Developments in the Construction of *trans*-Fused Polycyclic Ethers”

P. A. Evans and B. Delouvrié *Current Opinion in Drug Discovery and Development* **2002**, *5*, 989.

56. “Diastereoselective Temporary Silicon-Tethered Ring-Closing Metathesis Reactions with *Prochiral* Alcohols: A New Approach to Long-Range Asymmetric Induction”

P. A. Evans, J. Cui and G. P. Buffone *Angew. Chem. Int. Ed.* **2003**, *42*, 1734 (*VIP and Cover*).

57. “Regio- and Enantiospecific Rhodium-Catalyzed Arylation of Unsymmetrical Fluorinated Acyclic Allylic Carbonates: Inversion of Absolute Configuration”

- P. A. Evans and D. Uraguchi *J. Am. Chem. Soc.* **2003**, *125*, 7158.
58. “Regioselective and Enantiospecific Rhodium-Catalyzed Allylic Alkylation Reactions using Copper(I) Enolates: Synthesis of (-)-Sugiresinol Dimethyl Ether”
P. A. Evans and D. K. Leahy *J. Am. Chem. Soc.* **2003**, *125*, 8974.
59. “Stereoselective Construction of Cyclic Ethers using a *Tandem* Two-Component Etherification: Elucidation of the Role of Bismuth Tribromide”
P. A. Evans, J. Cui, S. J. Gharpure and R. J. Hinkle *J. Am. Chem. Soc.* **2003**, *125*, 11456.
60. “Stereoselective Construction of *cis*-2,6-Disubstituted Tetrahydropyrans *via* the Reductive Etherification of δ -Trialkylsilyloxy Substituted Ketones: Total Synthesis of (-)-Centrolobine”
P. A. Evans, J. Cui and S. J. Gharpure *Org. Lett.* **2003**, *5*, 3883.
61. “Recent Developments in Rhodium-Catalyzed Allylic Substitution and Carbocyclization Reactions”
P. A. Evans and D. K. Leahy *Chemtracts* **2003**, *16*, 567.
62. “Halide Ion Effects in the Rhodium-Catalyzed Allylic Substitution Reaction Using Copper(I) Alkoxides and Enolates”
P. A. Evans, D. K. Leahy and L. M. Sliker *Tetrahedron: Asymmetry* **2003**, *14*, 3613.
63. “Photoinduced ring expansion of 1-triisopropylsilyloxy-1-azidocyclohexane: preparation of ϵ -caprolactam”
J. D. Nelson, D. P. Modi, and P. A. Evans *Org. Synth.* **2003**, *79*, 165.
64. “Enantioselective Total Synthesis of the Potent Antitumor Agent (-)-Mucocin using a Temporary Silicon-Tethered Ring-Closing Metathesis Cross-Coupling Reaction”
P. A. Evans, S. J. Gharpure, A. Polosukhin, J. Cui and H. -R. Zhang *J. Am. Chem. Soc.* **2003**, *125*, 14702.
65. “Regio- and Diastereoselective Rhodium-Catalyzed Allylic Substitution with Acyclic α -Alkoxy-Substituted Copper(I) Enolates: Stereodivergent Approach to 2,3,6-Trisubstituted Tetrahydropyrans”
P. A. Evans and M. J. Lawler *J. Am. Chem. Soc.* **2004**, *126*, 8642.
66. Stereodivergent Construction of Cyclic Ethers by a Regioselective and Enantiospecific Rhodium-Catalyzed Allylic Etherification: Total Synthesis of Guar Acid”
P. A. Evans, D. K. Leahy, W. J. Andrews, and D. Uraguchi *Angew. Chem., Int. Ed.* **2004**, *43*, 4788 (*Hot Paper*).
67. Diastereoselective Intramolecular Temporary Silicon-Tethered Rhodium-Catalyzed [4+2+2] Cycloisomerization Reactions: Regiospecific Incorporation of Substituted 1,3-Butadienes
P. A. Evans and E. W. Baum *J. Am. Chem. Soc.* **2004**, *126*, 11150.

68. Diastereoselective Metal-Catalyzed [4+2+2] Carbocyclization Reactions Utilizing Rhodium *N*-Heterocyclic Carbene (NHC) Complex: The First Example of a Rhodium NHC-Catalyzed [m+n+o] Carbocyclization”
P. A. Evans, E. W. Baum, A. N. Fazal and Maren Pink *Chem. Commun.* **2005**, 63.
69. “Diastereoselective Intermolecular Rhodium-Catalyzed [4+2+2] Carbocyclization Reactions: Computational and Experimental Evidence for the Intermediacy of an Alternative Metallacycle Intermediate”
M.-H. Baik, E.W. Baum, M. C. Burland, and P. A. Evans *J. Am. Chem. Soc.* **2005**, *127*, 1602.
70. “Intermolecular Rhodium-Catalyzed [2+2+2] Carbocyclization Reactions of 1,6-Enynes with Symmetrical and Unsymmetrical Alkynes”
P. A. Evans, J. R. Sawyer and K. W. Lai *Chem. Commun.* **2005**, 3971.
71. “Stereoselective Construction of *cis*-2,6-Disubstituted Tetrahydropyrans *via* an Intramolecular Bismuth-Mediates Oxa-Conjugate Addition Reaction”
P. A. Evans and W. J. Andrews *Tetrahedron Lett.* **2005**, *46*, 5625.
72. “Regio- and Enantioselective Intermolecular Rhodium-Catalyzed [2+2+2] Carbocyclization Reactions of 1,6-Enynes with Methyl Arylpropiolates”
P. A. Evans, K. W. Lai and J. R. Sawyer *J. Am. Chem. Soc.* **2005**, *127*, 12466.
73. “Regioselective And Enantiospecific Rhodium-Catalyzed Allylic Amination with Thymine: Synthesis of a New Conformationally Rigid Nucleoside”
P. A. Evans, K. W. Lai, H.-R. Zhang and J. C. Huffman *Chem. Comm.* **2006**, 844.
75. “New Metal-Catalyzed Carbocyclization Reactions for the Construction of Complex Natural Products”
P. A. Evans, E. W. Baum, A. N. Fazal, K. W. Lai, J. E. Robinson and J. R. Sawyer *ARKIVOC*, **2006**, *14*, 338.
75. “A Central Strategy for Converting of Natural Products into Fluorescent Probes”
M. D. Alexander, M. D. Burkart, M. S. Leonard, P. Portonovo, B. Liang, X. Ding, M. M. Joullié, B. M. Gullledge, J. B. Aggen, A. R. Chamberlin, J. Sandler, W. Fenical, J. Cui, S. J. Gharpure, A. Polosukhin, H.-R. Zhang, P. A. Evans, A. D. Richardson, M. K. Harper, C. M. Ireland, B. G. Vong, T. P. Brady, E. A. Theodorakis and J. J. La Clair *ChemBioChem*, **2006**, *7*, 409.
76. “Rhodium-Catalyzed Propargylic Substitution: A Divergent Approach to Propargylic and Allenyl Sulfonamides”
P. A. Evans and M. J. Lawler *Angew. Chem. Int. Ed.* **2006**, *45*, 4970.
77. “Enantioselective Total Synthesis of the Polycyclic Guanidine Containing Marine Alkaloid, (–)-Batzelladine D”
P. A. Evans, J. Qin, J. E. Robinson, and B. Bazin *Angew. Chem. Int. Ed.* **2007**, *46*, 7417.

78. “Mechanistic Insight into the Diastereoselective Rhodium-Catalyzed Pauson-Khand Reaction: Role of Coordination Number on Stereocontrol”
H. Wang, J. R. Sawyer, P. A. Evans and M.-H. Baik *Angew. Chem. Int. Ed.* **2008**, *47*, 342.
79. “A Sequential Two-Component Etherification/Oxa-Conjugate Addition Reaction: Asymmetric Synthesis of (+)-Leucascandrolide A Macrolactone”
P. A. Evans and W. J. Andrews *Angew. Chem. Int. Ed.* **2008**, *47*, 5426.
80. “Intermolecular Rhodium-Catalyzed [3+2+2] Carbocyclization of 1,6-Alkenylidene-cyclopropanes with Activated Alkynes: Regio- and Diastereoselective Construction of *cis*-Fused Bicycloheptadienes”
P. A. Evans and P. A. Inglesby *J. Am. Chem. Soc.* **2008**, *130*, 12838.
81. “Intermolecular Rhodium-Catalyzed [2+2+2] Carbocyclization Reactions: A Mechanistic Dichotomy Between Mono- and Bidentate Ligands”
P. A. Evans and J. R. Sawyer *Submitted*.
82. “Enantioselective Rhodium-Catalyzed Allylic Alkylation with Acyclic α -Alkoxy Substituted Ketone Enolates using Chiral Monodentate Phosphite Ligands”
P. A. Evans, E. A. Clizbe and M. J. Lawler *Submitted*.
83. “Rhodium-Catalyzed Allylic Amination with the Anion of an Aza-Ylide”
P. A. Evans and E. A. Clizbe *Submitted*.
84. “Characterization and Evaluation of the Pre-Catalyst Components Employed in the Stereospecific Rhodium-Catalyzed Allylic Substitution Reaction”
L. A. Watson, D. K. Leahy, P. A. Evans and K. G. Caulton *Submitted*.
85. “The Acetogenin Mucocin Modulates the Activity of the Human ABC Transporters P-glycoprotein and ABCG2”
A. Bhatia, K. F. K. Ejendal, P. A. Evans and C. A. Hrycyna *Submitted*.

Research Highlights:

1. “Rhodium-Catalyzed Allylic Alkylation goes *via* Enyl Intermediate”
C&E News **1998**, *76*, 24.
2. “The Future of Synthetic Organic Chemistry”
P. S. Zurer *C&E News* **1999**, *77*, 31.
3. “Rhodium Catalysis is on a Roll”
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5. “Metal-Catalyzed Cycloadditions add up to Eight-membered Rings”
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6. “New Catalyzed Three-Component Cycloadditions for the Syntheses of Eight-Membered Carbocycles” *Angew. Chem. Int. Ed.* **2003**, 42, 718.
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8. “Allylic Ether Synthesis Leads to Mosquito Repellent”
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9. “Simple Synthesis for Anticancer Agent”
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1. “Modern Rhodium-Catalyzed Organic Reactions” Ed. P. A. Evans, Wiley-VCH: New York, 2005.

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1. D. K. Leahy and P. A. Evans in “Modern Rhodium-Catalyzed Organic Reactions” Ed. P. A. Evans, VCH: New York, 2005, Ch. 10, pp 191-214.

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1. Catalytic Asymmetric Synthesis, Ed. I Ojima, VCH: New York, 1993 in *J. Am Chem Soc.* **1994**, 116, 7957.

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1. N. R. Curtis, P. A. Evans, A. B. Holmes, R. W. Carling, and K. Russell, “New Methodology for the Stereoselective Synthesis of Medium Ring Oxygen and Nitrogen Heterocycles” poster presented at the Oxford Synthesis Meeting, Oxford, July, 1989.
2. N. R. Curtis, P. A. Evans, A. B. Holmes, M. Looney, N. Pearson, and G. C. Slim, “Asymmetric Synthesis of Unsaturated Medium Ring Heterocycles and Applications to the Synthesis of Natural Products” poster presented at the S.K.F. Medicinal Chemistry Symposium, Cambridge, 1990.
3. P. A. Evans and A. B. Holmes, “Monocyclic Medium ring Lactams” oral presentation at the Graduate Heterocyclic Conference, Manchester, UK, July, 1990.
4. P. A. Evans and A. B. Holmes, “New Methodology for the Preparation of Monocyclic Medium ring Lactams” invited lecture presented at Cambridge University, Cambridge, 1990.

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5. P. Magnus, A. Evans, and J. Lacour, “New Trialkylsilyl Enol Ether Chemistry” invited lecture presented at the 204th American Chemical Society National Meeting, Washington, DC, August 23-28, 1992.
6. J. M. Longmire and P. A. Evans, “New Trialkylsilyl Enol Ether Chemistry” oral presentation at the 58th Annual Intercollegiate Student Chemists Convention, West Chester, PA, April 16, 1994.
7. P. A. Evans, J. D. Nelson, J. D. Roseman and A. L. Stanley, “Complimentary Electrophilic and Nucleophilic Acylation Reactions in Natural Product Synthesis” poster presented at the 6th Symposium on the Trends in Organic Synthesis, Blacksburg, VA, September 28-October 2, 1994.
8. A. L. Stanley and P. A. Evans, “Stereoselective Synthesis of 2,5-Disubstituted Pyrrolidin-3-ones *via* an Acyl Radical Cyclization” oral presentation at the 209th American Chemical Society National Meeting, Anaheim, CA, April 2-6, 1995.
9. D. P. Modi and P. A. Evans, “Novel Azidation/Ring Expansion Approach to Lactams” oral presentation at 59th Annual Intercollegiate Student Chemists Convention, Allentown, PA, April 8, 1995.
10. P. A. Evans, J. D. Roseman and A. L. Stanley, “Stereoselective Synthesis of Heterocycles *via* Intramolecular Acyl Radical Cyclizations” invited lecture presented at the 12th Lakeland Heterocyclic Symposium, Grasmere, UK, May 4-8, 1995.
11. J. D. Roseman and P. A. Evans, “Stereoselective Synthesis of Cyclic Ethers *via* Intramolecular Acyl Radical Cyclizations” poster presented at the 34th National Organic Symposium, Williamsburg, VA, June 11-15, 1995.
12. P. A. Evans, J. D. Roseman and A. L. Stanley, “Stereoselective Synthesis of Heterocycles *via* Intramolecular Acyl Radical Cyclizations” poster presented at the Heterocycles Gordon Conference, New Hampton, NH, July 9-14, 1995.
13. J. R. Remy and P. A. Evans, “Development of a New Formyl Anion Equivalent” oral presentation at 60th Annual Intercollegiate Student Chemists Convention, Collegeville, PA, April 13, 1996.
14. J. D. Nelson and P. A. Evans, “Stereoselective Synthesis of Dihydropyran-4-ones *via* a Hetero Diels-Alder Reaction and Dehydrogenation” oral presentation at the 30th American Chemical Society Middle Atlantic Regional Meeting, Villanova, PA, May 22-24, 1996.
15. L. T. Garber and P. A. Evans, “Diastereoselective Formation of Cyclic Acetals *via* a Fluoride-Catalyzed Hetero Michael Reaction” oral presentation at the 30th American Chemical Society Middle Atlantic Regional Meeting, Villanova, PA, May 22-24, 1996.

16. P. A. Evans and J. D. Roseman, "Stereoselective Construction of Cyclic Ethers *via* Intramolecular Acyl Radical Cyclizations" oral presentation at the 30th American Chemical Society Middle Atlantic Regional Meeting, Villanova, PA, May 22-24, 1996.
17. T. A. Brandt and P. A. Evans, "Novel Hypervalent Iodine-Promoted Halogenation and Acetoxylation of 1,4-Dimethoxynaphthalenes" oral presentation at the 30th American Chemical Society Middle Atlantic Regional Meeting, Villanova, PA, May 22-24, 1996.
18. P. A. Evans, J. D. Roseman and L. T. Garber, "Stereoselective Construction of Cyclic Ethers *via* Intramolecular Acyl Radical Cyclizations" oral presentation and poster presented at the Heterocycles Gordon Conference, New Hampton, NH, July 7-11, 1996.
19. P. A. Evans, "Stereoselective Construction of Heterocycles *via* Intramolecular Acyl Radical Cyclizations" invited lecture presented at the 7th Symposium on the Latest Trends in Organic Synthesis, Gainesville, FL, October 23-27, 1996.
20. P. A. Evans and Jamie D. Roseman, "Stereoselective Construction of Cyclic Ethers *via* Intramolecular Acyl Radical Cyclizations" invited lecture presented at the 30th American Chemical Society South East Regional Meeting, Greenville, SC, November 10-13, 1996.
21. P. A. Evans and Jamie D. Roseman, "Enantioselective Total Synthesis of (-)-Kumausallene" oral presentation at the 213th American Chemical Society National Meeting, San Francisco, CA, April 13-17, 1997.
22. J. D. Roseman and P. A. Evans, "Stereoselective Synthesis of Cyclic Ether Containing Natural Products" poster presented at the 35th National Organic Symposium, San Antonio, TX, June 22-26, 1997.
23. T. A. Brandt and P. A. Evans, "Enantioselective Palladium Catalyzed Heck Reaction, Allylic Alkylation and Amination using a Novel 1,3-Oxazine Ligand" poster presented at the 35th National Organic Symposium, San Antonio, TX, June 22-26, 1997.
24. P. A. Evans and Jamie D. Roseman, "Stereoselective Synthesis of Biologically Important Cyclic Ether Containing Natural Products *via* Intramolecular Radical Cyclizations" oral presentation and poster presented at the Natural Products Gordon Conference, New England College, NH, July 6-11, 1997.
25. P. A. Evans and Thomas A. Brandt, "Enantioselective Palladium Catalyzed Heck Reaction, Allylic Alkylation and Amination using a Novel 1,3-Oxazine Ligand" poster presented at the Natural Products Gordon Conference, New England College, NH, July 6-11, 1997.
25. P. A. Evans, T. A. Brandt and J. D. Nelson, "Novel Palladium/Rhodium Catalyzed Allylic Alkylation Reactions" oral presentation at the 16th International Congress of Heterocyclic Chemistry, Bozeman, MT, August 10-15, 1997.

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27. P. A. Evans, "Exploring New Reactivity for the Expeditious Synthesis of Biologically Important Natural products" award lecture presented at the 1997 Excellence in Chemistry Awards, Zeneca Pharmaceuticals, DE, November 5, 1997.
28. P. A. Evans, "Acyl Radicals as Useful Reactive Intermediates for the Stereocontrolled Synthesis of Marine Natural Products" invited lecture presented at the 14th Rocky Mountain Regional Meeting, Tucson, AZ, March 15-18, 1998.
29. J. D. Nelson and P. Andrew Evans, "Regioselective Rhodium-Catalyzed Allylic Alkylation with a *Modified* Wilkinson's Catalyst: Construction of Quaternary Carbon Stereogenic Centers" oral presentation at the 215th American Chemical Society National Meeting, Dallas, TX, March 29-April 2, 1998.
30. P. A. Evans, Thomas A. Brandt and Jade D. Nelson, "New Transition Metal Catalyzed Allylic Alkylation Reactions" invited lecture presented at the Stereochemistry Gordon Conference at Salve Regina University, RI, June 7-12, 1998.
30. P. A. Evans and Thomas A. Brandt, "Asymmetric Palladium-Catalyzed Allylic Alkylation using Vinylogous Sulfonates" oral presentation at the 216th American Chemical Society National Meeting, Boston, MA, August 23-27, 1998.
32. V. S. Murthy and P. Andrew Evans, "Temporary Silicon-Tethered Ring-Closing Metathesis Approach to C₂-Symmetric 1,4-Diols" oral presentation at the 216th American Chemical Society National Meeting, Boston, MA, August 23-27, 1998.
33. P. A. Evans, "The Metal-Catalyzed Allylic Substitution Reaction Revisited" invited lecture presented at the Center for Catalytic Science and Technology Annual Research Review, Newark, DE, October 16, 1998.
34. D. E. Engers and P. A. Evans, "Regioselective Alkylation of Triisopropylsilyl Enol Ethers" poster presented at the 1st Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, Baltimore County, MD, October 24, 1998.
35. P. A. Evans, "The Asymmetric Metal-Catalyzed Allylic Substitution Reaction Revisited" invited talk presented at the PUDDuP meeting, Wilmington, DE, March 31, 1999.
36. P. A. Evans, "Acyl Radicals as Useful Reactive Intermediates for the Asymmetric Synthesis of Biologically Important Natural Products" invited lecture presented at the Free Radical Reactions Gordon Conference at Holderness School, Plymouth, NH, June 11-16, 1999.
37. P. A. Evans, J. E. Robinson and J. D. Nelson, "Enantiospecific Synthesis of Allylamines *via* the Regioselective Rhodium-Catalyzed Allylic Amination Reaction" oral presentation at the 218th American Chemical Society National Meeting, New Orleans, LA, August 22-26, 1999.

38. P. A. Evans and V. S. Murthy, "Total Synthesis of the Antitumor Agent Mucocin using a Temporary Silicon-Tethered RCM Cross-Coupling Reaction" invited lecture presented at the 218th American Chemical Society National Meeting, New Orleans, LA, August 22-26, 1999.
39. P. A. Evans, "Exploring New Reactivity for the Expeditious Synthesis of Biologically Important Natural Products" award lecture presented at the 1999 Chemistry Scholar Awards, GlaxoWellcome Pharmaceuticals, NC, October 1, 1999.
40. P. A. Evans, V. Srinivasa Murthy, and Gerald P. Buffone, "Total Synthesis of the Antitumor Agent Mucocin using a Temporary Silicon-Tethered RCM Cross-Coupling Reaction" invited lecture presented at the 11th RACIC Meeting, Canberra, Australia, Feb. 6-11, 2000.
41. P. A. Evans, "New Organometallic Cross-Coupling Reactions for Synthetic Chemistry" award lecture presented at the 2000 Eli Lilly Young Faculty Grantee Symposium, Eli Lilly Corporation, IN, March 6-7, 2000.
42. T. Manangan and P. A. Evans, "Stereoselective Synthesis of Nitrogen Heterocycles *via* Intramolecular Acyl Radical Cyclizations" oral presentation at the 219th American Chemical Society National Meeting, San Francisco, CA, March 26-30, 2000.
43. P. A. Evans, "Regioselective Rhodium-Catalyzed Allylic Substitution Reactions" invited lecture presented at the Organic Reactions and Processes Gordon Research Conference at the Roger Williams University, RI, July 16-21, 2000.
44. L. J. Kennedy and P. A. Evans, "Enantiospecific and Regioselective Rhodium-Catalyzed Allylic Alkylation: Diastereoselective Approach to Quaternary Carbon Stereogenic Centers" oral presentation at the 220th American Chemical Society National Meeting, Washington, DC, August 20-24, 2000.
45. J. E. Robinson and P. A. Evans, "Tandem Rhodium-Catalyzed Allylic Amination/Pauson-Khand: Diastereoselective Construction of Azabicycles" oral presentation at the 220th American Chemical Society National Meeting, Washington, DC, August 20-24, 2000.
46. D. K. Leahy and P. A. Evans, "Regioselective and Enantiospecific Rhodium-Catalyzed Intermolecular Allylic Etherification with *o*-Substituted Phenols" oral presentation at the 220th American Chemical Society National Meeting, Washington, DC, August 20-24, 2000.
47. P. A. Evans, "New Rhodium-Catalyzed Allylic Substitution Reactions for Organic Synthesis" invited lecture presented at the New Jersey Section of the ACS, NJ, September 19, 2000.
48. P. A. Evans, "New Metal-Catalyzed Cross-Coupling Reactions: Mechanistic Insights and Synthetic Applications" invited lecture presented at the 2000 Michigan Chemistry Tour, Pfizer Pharmaceuticals, MI, September 21-27, 2000.
49. P. A. Evans, "Stereoselective Intramolecular Free Radical Cyclization Reactions: New Approach to the Polyguanidinium Alkaloids Batzellidine A-F" invited lecture presented at

the 2000 Chemistry Scholar Awards, GlaxoWellcome Pharmaceuticals, NC, September 29, 2000.

50. P. A. Evans, "Expeditious Approaches to Biologically Important Complex Natural Products" invited lecture presented at the SFC-Normandy Meeting, Normandy, France, December 4, 2000.
51. P. A. Evans, "New Metal-Catalyzed Cross-Coupling Reactions: Mechanistic Insights and Synthetic Applications" invited lecture presented at the SFC-Rhodia Symposium, Paris, France, December 5, 2000.
52. P. A. Evans, "Stereoselective Synthesis of Nitrogen Heterocycles *via* Intramolecular Radical Cyclizations" invited lecture presented at the 2000 Pacific Basin Conference, HI, December 14-19, 2000.
53. P. A. Evans, "New Rhodium-Catalyzed Allylic Substitution Chemistry" invited lecture presented at the 2000 Pacific Basin Conference, HI, December 14-19, 2000.
54. P. A. Evans, "New Organometallic Mediated Cross-Coupling Reactions for the Construction of Complex Biologically Important Natural Products" invited lecture presented at the 4th Winter Conference on Medicinal and Bioorganic Chemistry, CO, January 28-February 2, 2001.
55. P. A. Evans, "New Rhodium-Catalyzed Allylic Substitution Reactions: Mechanistic Insight and Synthetic Applications" plenary lecture presented at the 37th National Organic Symposium, Bozeman, MT, June 10-15, 2001.
56. J. E. Robinson and P. A. Evans, "Tandem Rhodium-Catalyzed Allylic Alkylation/Pauson-Khand Reactions: Investigation of Component Reactions Toward the Development of Tandem Processes" poster presented at the 37th National Organic Symposium, Bozeman, MT, June 10-15, 2001.
57. P. A. Evans, "New Organometallic Mediated Cross-Coupling Reactions" invited lecture presented at the 50th Anniversary of the Natural Products Gordon Conference, Tilton School, NH, July 29-August 3, 2001.
58. P. A. Evans, "Stereoselective Synthesis of Nitrogen Containing Heterocycles *via* Intramolecular Radical Cyclizations" invited lecture presented at the 53rd American Chemical Society South East Regional Meeting, Savannah, GA, September 23-26, 2001.
59. P. A. Evans, J. Cui, and B. Delouvrié, "Silicon-Tethered Ring-Closing Metathesis Cross-Coupling Reactions" poster presented at the 15th Annual Johnson and Johnson Focused Giving Symposium, New Brunswick, NJ, November 27, 2001.
60. David K. Leahy and P. A. Evans, "Regioselective Rhodium-Catalyzed Allylic Etherifications with Primary, Secondary and Tertiary Copper(I) Alkoxides as Nucleophiles" oral

presentation at the 223rd American Chemical Society National Meeting, Orlando, FL, April 7-11, 2002.

61. J. Cui and P. A. Evans, “Diastereoselective Temporary Silicon-Tethered Ring-Closing Metathesis Reactions with Prochiral Alcohols: A New Approach to Long Range Asymmetric Induction” oral presentation at the 223rd American Chemical Society National Meeting, Orlando, FL, April 7-11, 2002.
62. B. Delouvrié and P. A. Evans, “Bismuth-Catalyzed Reductive Etherification. Application to the Synthesis of Fused Polycyclic Ethers” oral presentation at the 223rd American Chemical Society National Meeting, Orlando, FL, April 7-11, 2002.
63. P. A. Evans, “New Organometallic Cross-Coupling and Annulation Reactions” participant in the NSF Workshop, Squam Lake, NH, June 27-July 1, 2002.
64. P. A. Evans, “Stereoselective Construction of Complex Polycyclic Cyclic Ethers using New Cross-Coupling Reactions” invited seminar presented at the Heterocycles Gordon Conference, Salve Regina University, RI, July 6-11, 2002.
65. L. A. Watson, K. G. Caulton, P. A. Evans and D. K. Leahy, “Identification of the Active Catalyst Precursor and the Mechanism of Rhodium-Catalyzed Allylic Substitutions” oral presentation at the 224th American Chemical Society National Meeting, Boston, MA, August 7-11, 2002.
66. P. A. Evans, “New Rhodium-Catalyzed Cross-Coupling and Cycloaddition Reactions” invited presentation at the 37th American Chemical Society Midwest Regional Meeting, Lawrenceville, KS, October 23-25, 2002.
67. P. A. Evans, J. Cui, and S. Gharpure, “Diastereoselective Synthesis of Pyrans and Oxepane via Bismuth-Initiated Tandem Cyclization-Addition Reactions” poster presented at the 16th Annual Johnson and Johnson Focused Giving Symposium, New Brunswick, NJ, December 3, 2002.
68. P. A. Evans, “New Strategies for the Stereoselective Total Synthesis of Complex Biologically Important Cyclic Ethers” invited seminar at the 225th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2003.
69. S. J. Gharpure and P. A. Evans, “Intramolecular Lewis-Acid Mediated Reductive Etherification Reactions: Applications to the Total Synthesis of Mucocin and Polycyclic Ethers” oral presentation at the 225th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2003.
70. D. K. Leahy and P. A. Evans, “Regio- and Enantiospecific Rhodium-Catalyzed Allylic Alkylation Reactions using Copper(I) Enolates” oral presentation at the 225th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2003.

71. D. Uraguchi and P. A. Evans, “TpRh(C₂H₄)₂ Catalyzed Regio- and Enantiospecific Allylic Arylation Reactions of Fluorinated Acyclic Unsymmetrical Carbonates” oral presentation at the 225th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2003.
72. R. J. Hinkle, P. A. Evans, J. Cui, B. Delouvrié, “Diastereoselective Syntheses of Di- and Tri-Substituted Cyclic Ethers via Tandem Cyclization-Addition Reactions” oral presentation at the 225th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2003.
73. P. A. Evans, “Bismuth-Catalyzed Etherification Reactions for Complex Polycyclic Ether Synthesis” invited presentation at the 16th Annual Organic Chemistry Day, University of Missouri, MO, April 16, 2003.
74. J. E. Robinson, P. A. Evans, B. Bazin and J. Qin, “New Strategies for the Stereoselective Total Synthesis of Complex Biologically Important Cyclic Ethers” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
75. S. J. Gharpure, R. J. Hinkle, Jian Cui and P. A. Evans, “Bismuth Promoted Diastereoselective Etherification Reactions: Applications to the Synthesis of Cyclic Ethers” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
76. A. I. Polosukhin, H.-R. Zhang, S. J. Gharpure, P. A. Evans, “Enantioselective Total Synthesis of Annonaceous Acetogenin (-)-Mucocin” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
77. A. N. Fazal, E. W. Baum, J. R. Sawyer, J. E. Robinson, and P. A. Evans, “Rhodium-Catalyzed Carbocyclization Reactions” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
78. D. K. Leahy, D. Uraguchi, W. J. Andrews, P. A. Evans, “Regio- and Enantiospecific, Rhodium-Catalyzed Allylic Etherification Reactions Using Sodium Phenoxides and Copper(I) Alkoxides” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
79. M. J. Lawler, D. K. Leahy, P. A. Evans, “Regio- and Enantiospecific, Diastereoselective Rhodium-Catalyzed Allylic Alkylation Reactions Using Copper(I) Enolates” poster presented at the 38th National Organic Symposium, Bloomington, IN, June 8-12, 2003.
80. P. A. Evans, “New Bismuth-Catalyzed Cross-Coupling and Annulation Reactions” invited lecture presented at the Organic Reactions and Processes Gordon Research Conference at the Roger Williams University, RI, July 20-25, 2003.

81. P. A. Evans, "Bismuth-Catalyzed Etherification Reactions for the Stereoselective Construction of Polycyclic Ethers" invited lecture presented at the 35th American Chemical Society Central Regional Meeting, Pittsburgh, PA, October 16-22, 2003.
82. P. A. Evans, "Stereodivergent Construction of Cyclic Ethers Using Catalytic Bismuth Tribromide: Application to the Synthesis of Adjacent and Non-adjacent Polycyclic Ethers" plenary lecture presented at the 1st International COE Symposium on Giant Polyether Natural Products-Isolation and Synthesis, Sendai, Japan, November 21-22, 2003.
83. P. A. Evans, "Stereodivergent Construction of Cyclic Ethers Using Catalytic Bismuth Tribromide: Applications to the Synthesis of Adjacent and Non-Adjacent Polycyclic Ethers" invited seminar presented at the First Annual Focused Giving Mini Symposium on Synthetic Methodology, Raritan, NJ, December 1, 2003.
84. P. A. Evans, J. Cui, S. J. Gharpure and R. J. Hinkle, "Bismuth-Mediated Diastereoselective Etherification Reactions: Applications to the Synthesis of Adjacent and Non-Adjacent Polycyclic Ethers" poster presented at the 17th Annual Johnson and Johnson Focused Giving Symposium, New Brunswick, NJ, December 2, 2003.
85. P. A. Evans and E. W. Baum, "Temporary Silicon-Tethered Rhodium(I)-Catalyzed Intramolecular [4+2+2] Cycloadditions: Studies Toward the Total Synthesis of (+)-Epoxydictymene" oral presentation at the 227th American Chemical Society National Meeting, Anaheim, CA, March 28-April 1, 2004.
86. P. A. Evans, A. N. Fazal, and E. W. Baum, "Highly Diastereoselective Intermolecular [4+2+2] Carbocyclization utilizing Rhodium(I) *N*-Heterocyclic Carbene (NHC) Catalyst" oral presentation at the 227th American Chemical Society National Meeting, Anaheim, CA, March 28-April 1, 2004.
87. P. A. Evans and M. J. Lawler, "Diastereoselective Rhodium-Catalyzed Allylic Alkylation Reactions using Copper(I) Enolates: A New Route to Trisubstituted Dihydropyrans" oral presentation at the 227th American Chemical Society National Meeting, Anaheim, CA, March 28-April 1, 2004.
88. P. A. Evans and J. R. Sawyer, "Enantioselective Rhodium-Catalyzed [2+2+2] Carbocyclization Reactions" oral presentation at the 227th American Chemical Society National Meeting, Anaheim, CA, March 28-April 1, 2004.
89. P. A. Evans, D. K. Leahy, D. Uraguchi, and W. J. Andrews, "Stereospecific Rhodium-Catalyzed Allylic Etherification: Application to the Synthesis of Cyclic Ethers" oral presentation at the 227th American Chemical Society National Meeting, Anaheim, CA, March 28-April 1, 2004.
90. P. A. Evans, "New Organometallic Mediated Carbocyclization Reactions for the Construction of Complex Natural Products" invited seminar at the 34th University of Ottawa Synthesis

Day, Ottawa, ON, May 4, 2004.

91. P. A. Evans, "New Asymmetric Cross-Coupling Reactions: Total Synthesis of the Marine Polyguanidine Alkaloids, Batzelladine A and D" invited seminar at the North Jersey American Chemical Society Organic Chemistry Topical Group Synthesis Day, New Brunswick, NJ, May 27, 2004.
92. P. A. Evans, "New Organometallic Mediated Carbocyclization Reactions for the Construction of Complex Natural Products" invited seminar at the 87th Canadian Chemistry Conference, London, ON, Canada, May 29-June 1, 2004.
93. P. A. Evans, "New Metal-Catalyzed Carbocyclization Reactions for the Synthesis of Complex Terpene Natural Products" invited seminar at the 36th American Chemical Society Central Regional Meeting, Indianapolis, IN, June 2-4, 2004.
94. P. A. Evans, "Rhodium-Catalyzed Allylic Alkylation and Etherification Reactions using Copper(I) Enolates and Alkoxides and their Application to Target Directed Synthesis" poster presented at the Organic Reactions and Processes Gordon Research Conference, Roger Williams University, RI, July 18-23, 2004.
95. P. A. Evans, "New Metal-Catalyzed Carbocyclization Reactions for the Rapid Construction of Complex Natural Products" invited seminar at the 36th ACS Great Lakes Regional Meeting, Peoria, IL, October 17-20, 2004.
96. P. A. Evans, W. J. Andrews and R. E. Ebrahimian, "Bismuth-Mediated Diastereoselective Etherification Reactions: Synthesis of Cyclic Ethers" poster presented at the 18th Annual Johnson and Johnson Focused Giving Symposium, New Brunswick, NJ, November 30, 2004.
97. P. A. Evans, "Enantioselective Total Synthesis of Batzelladine A and D using Novel Reductive and Oxidative Free Radical Cyclization Reactions" invited lecture presented at the Natural Products Gordon Conference, Tilton School, NH, July 24-28, 2005.
98. P. A. Evans, "New Organometallic Mediated Carbocyclization Reactions for the Construction of Complex Natural Products" invited lecture at the 20th International Congress of Heterocyclic Chemistry, Palermo, Italy, July 31-August 5, 2005.
99. P. A. Evans, "New Organometallic Mediated Carbocyclization Reactions for the Construction of Complex Natural Products" invited lecture presented at the SICC-4 Singapore International Chemical Conference, Singapore, December 8-10, 2005.
100. P. A. Evans, "Stereoselective Construction of Complex Polycyclic Ethers Using New Cross-Coupling Reactions: Application to the Synthesis of Adjacent and Non-adjacent Polycyclic Ethers" invited lecture presented at the 2005 Pacific Basin Conference, HI, December 15-20, 2005.
101. J. R. Sawyer and P. A. Evans, "Regio- and Enantioselective Rhodium-Catalyzed [2+2+2]

- Carbocyclization Reactions” oral presentation at the 232nd ACS National Meeting, San Francisco, CA, Sept. 10-14, 2006.
102. W. J. Andrews and P. A. Evans, “Highly Convergent Enantioselective Formal Total Synthesis of Leucascandrolide A” oral presentation at the 232nd ACS National Meeting, San Francisco, CA, Sept. 10-14, 2006.
 103. P. A. Evans, “New Metal-Catalyzed Cross-Coupling and Carbocyclization Reactions for the Construction of Complex Natural Products” keynote speaker at the Gregynog Young Chemists Workshop, Gregynog, Powys, September 29-October 1, 2006.
 104. P. A. Evans, “New Metal-Catalyzed Cross-Coupling and Carbocyclization Reactions for the Construction of Complex Natural Products” keynote speaker at the Edinburgh Mini-Organic Synthesis Symposium, University of Edinburgh, Edinburgh, UK, October 18, 2006.
 105. P. A. Evans, W. J. Andrews and X. Zhao, “Progress Towards the Synthesis of Leucascandrolide A and the Gambieric Acids: Cyclic Ether Containing Natural Products” poster presented at the 19th Annual Johnson and Johnson Focused Giving Symposium, New Brunswick, NJ, November 28, 2006.
 106. P. A. Evans, “New Metal-Catalyzed Cross-Coupling and Carbocyclization Reactions for the Construction of Complex Natural Products” invited speaker at the Southampton Organic Synthesis Symposium, University of Southampton, Southampton, Hampshire, January 26, 2007.
 107. P. A. Evans, “Total Synthesis of Complex Bioactive Natural Products” invited speaker at the Organic Synthesis Symposium, University of Nottingham, Nottingham, February 21, 2007.
 108. P. A. Evans, “Total Synthesis of Complex Bioactive Natural Products” plenary speaker at the RSC Organic Division North East Regional Meeting, The University of York, York, April 4, 2007.
 109. X. Zhao and P. A. Evans, “Progress Toward the Total Synthesis of Gambieric Acids: Construction of the GHIJ Ring System” oral presentation at the 233rd ACS National Meeting, Chicago, IL, USA, March 25-29, 2007
 110. M. J. Lawler and P. A. Evans, “Enantioselective Rhodium-Catalyzed Allylations of α -Alkoxy Ketone Enolates” oral presentation at the 233rd ACS National Meeting, Chicago, IL, USA, March 25-29, 2007.
 111. W. J. Andrews and P. A. Evans, “Highly Convergent Enantioselective Formal Total Synthesis of Leucascandrolide A” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
 112. E. A. Clizbe and P. A. Evans, “Stereospecific Rhodium-Catalyzed Allylic Amination with an Ylide Pronucleophile” poster presented at the 40th National Organic Symposium, Durham,

NC, June 3-7, 2007.

113. A. Cusak and P. A. Evans, “Temporary Silicon-Tethered Ring-Closing Metathesis Approach to Polyketide Fragments: Asymmetric Synthesis of the C16-C30 Fragment of Amphidinol 3” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
114. A. Dancevic and P. A. Evans, “Regioselective Rhodium-Catalyzed Allylic Oxidation” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
115. M. J. Lawler and P. A. Evans, “Enantioselective Rhodium-Catalyzed Allylations of α -Alkoxy Ketone Enolates” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
116. J. E. Robinson, P. A. Evans, J. Qin and B. Bazin, “A Novel and Concise Approach to the Synthesis of Polycyclic Guanidines: Total Synthesis of (-)-Batzelladine D” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
117. J. R. Sawyer and P. A. Evans, “Regio- and Enantioselective Rhodium-Catalyzed [2+2+2] Carbocyclization Reactions” poster presented at the 40th National Organic Symposium, Durham, NC, June 3-7, 2007.
118. P. A. Evans, “New Asymmetric Rhodium-Catalyzed Reactions as Enabling Tools for Synthesis” plenary speaker at the 20th International Symposium: Synthesis in Organic Chemistry, Cambridge, July 16-19, 2007.
119. P. A. Evans, “New Asymmetric Rhodium-Catalyzed Allylic Substitution Reactions” plenary speaker at the 8th Sigma Aldrich Symposium for Young Chemists, Montceaux, France, October 15-17, 2007.
120. P. A. Evans, “New Metal-Catalyzed Reactions for the Total Synthesis of Complex Bioactive Natural Products” plenary speaker at the Pfizer Autumn Chemistry Symposium, Sandwich, November 9, 2007.
121. P. A. Evans, “Total Synthesis of Complex Bioactive Natural Products” plenary speaker at the WestCHEM Organic Colloquia, University of Strathclyde, Glasgow, November 14, 2007.
122. P. A. Evans, “New Asymmetric Rhodium-Catalyzed Allylic Substitution Reactions” invited speaker at the International Symposium on Catalysis and Fine Chemicals 2007, Singapore, December 16-21, 2007.
123. P. A. Evans, “New Higher-Order Transition Metal-Catalyzed Carbocyclizations Reactions for the Construction of Complex Natural Products” plenary speaker at the RSC Organic Division: Heterocyclic and Synthesis Group Meeting, Imperial College, London, January 4, 2008.
124. P. A. Evans, “New Stereoselective Higher-Order Rhodium-Catalyzed Carbocyclizations

Reactions for Total Synthesis” keynote speaker at the RSC Organic Division S&W Regional Meeting, University of Oxford, Oxford, January 8, 2008.

125. P. A. Evans, “Total Synthesis of Complex Bioactive Natural Products: You Really Can Teach An Old Dog New Tricks!” Think Lecture in the Inaugural Lecture Series 2007/2008, University of Liverpool, Liverpool, March 11, 2008.
126. P. A. Evans, “New Asymmetric Rhodium-Catalyzed Allylic Substitution Reactions for the Total Synthesis of Bioactive Natural Products” plenary lecture presented at the Journées de Chimie Moléculaire 2008, Université P. et M. Curie – Paris 6, Paris, France, May 22-23, 2008.
127. P. A. Evans, “Stereoselective Construction of Complex Polycyclic Cyclic Ethers using Cross-Coupling Reactions” invited seminar presented at the Heterocycles Gordon Conference, Salve Regina University, RI, June 6-11, 2008.
128. P. A. Evans, “Total Synthesis of Bioactive Natural Products using Enantioselective Rhodium-Catalyzed Allylic Substitution Reactions” invited lecture presented at the 17th International Conference on Organic Synthesis, Daejeon, Korea, June 22-27, 2008.
129. P. A. Evans, “Total Synthesis of Bioactive Natural Products using Enantioselective Rhodium-Catalyzed Allylic Substitution Reactions” invited lecture presented at the 17th International Conference on Organic Synthesis, Daejeon, Korea, June 22-27, 2008.
130. E. A. Clizbe and P. A. Evans, “Transition Metal-Catalyzed Allylic Amination with Ylide Pronucleophiles oral presentation at the 236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008.
131. A. Dancevic and P. A. Evans, “Highly Regioselective Rhodium-Catalyzed Allylic Oxidation of Prochiral Cyclopentenes” oral presentation at the 236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008.
132. P. A. Inglesby, P. A. Evans and S. Butterworth, “Intermolecular Rhodium-Catalyzed [3+2+2] Carbocyclizations of Methylene cyclopropanes with Unsymmetrical Alkynes” oral presentation at the 236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008.
133. H. J. Laidlaw, P. A. Evans, S. J. Atkinson, J. R. Sawyer and A. T. Gillmore, “Intramolecular Rhodium(I)-Catalyzed [2+2+2] Cycloisomerization Reaction of Dienynes” oral presentation at the 236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008.
134. A. Cusak and P. A. Evans, “Temporary Silicon-Tethered Ring-Closing Metathesis Approach to Polyketide Fragments: Asymmetric Synthesis of the C1-C30 Fragment of Amphidinol 3” oral presentation at the 236th ACS National Meeting, Philadelphia, PA, August 17-21, 2008.

135. P. A. Evans, "New Metal-Catalysed Reactions for the Construction of Complex Natural Products" invited lecture presented at the Andrew B. Holmes 65th Birthday Symposium, Cambridge, September 5, 2008.

Presentations at Universities and Industrial Companies:

1. DuPont Experimental Station, Wilmington, DE, January 23, 1995.
2. Rhone-Poulenc Rorer, Collegeville, PA, February 16, 1995.
3. Zeneca Pharmaceuticals, Wilmington, DE, February 21, 1995.
4. The American University, Washington DC, March 21, 1995.
5. Zeneca Pharmaceuticals, Alderley Edge, UK, May 9, 1995.
6. Fisons Pharmaceuticals, Loughborough, UK, May, 10, 1995.
7. Roche Pharmaceuticals, Welwyn Garden City, UK, May 11, 1995.
8. Cambridge University, Cambridge, UK, May 12, 1995.
9. DuPont Experimental Station, Wilmington, DE, May 19, 1995.
10. Purdue University, West Lafayette, IN, October 31, 1995.
11. Wake Forest University, Winston-Salem, NC, January 27, 1997.
12. Lehigh University, Bethlehem, PA, February 26, 1997.
13. Eastman Kodak Company, Rochester, NY, April 30, 1997.
14. GlaxoWellcome, Research Triangle, NY, May 22, 1997.
15. North Carolina State University, Raleigh, NC, May 23, 1997.
16. Pfizer Pharmaceuticals, Sandwich, UK, July 22, 1997.
17. SmithKline Beecham Pharmaceuticals, Tonbridge, UK, July 30, 1997.
18. Merck Sharp and Dome Pharmaceuticals, Harlow, UK, July 31, 1997.
19. Temple University, Philadelphia, PA, September 18, 1997.
20. Merck Process Research Laboratories, Rahway, NJ, October 16, 1997.
21. University of Delaware, Newark, DE, October 22, 1997.
22. Rice University, Houston, TX, November 19, 1997.
23. Texas A&M, College Station, TX, November 20, 1997.
24. Columbia University, New York, NY, December 11, 1997.
25. SmithKline Beecham Pharmaceuticals, King of Prussia, PA, January 13, 1998.
26. University of North Carolina at Chapel Hill, Chapel Hill, NC, January 22, 1998.

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27. Emory University, Atlanta, GA, February 11, 1998.
28. Novartis Pharmaceuticals, Summit, NJ, March 2, 1998.
29. Indiana University of Pennsylvania, Indiana, PA, May 4, 1998.
30. Lilly Research Laboratories, Indianapolis, IN, July 14, 1998.
31. Pfizer Pharmaceuticals, Groton, CT, July 30, 1998.
32. University of Texas at Austin, Austin, TX, September 4, 1998.
33. Johns Hopkins University, Baltimore, MD, November 10, 1998.
34. Johnson and Johnson Pharmaceuticals, Springhouse, PA, November 18, 1998.
35. Bristol-Myers Squibb, Wallingford, CT, January 14, 1999.
36. Virginia Commonwealth University, Richmond, VA, February 4, 1999.
37. Rhone-Poulenc Rorer, Collegeville, PA, February 26, 1999.
38. University of West Virginia, Morgantown, WV, March 12, 1999.
39. University of California at Riverside, Riverside, CA, April 12, 1999.
40. Allergan, Irvine, CA, April 13, 1999.
41. University of California at Irvine, Irvine, CA, April 14, 1999.
42. University of California at Santa Barbara, Santa Barbara, CA, April 15, 1999.
43. College of William and Mary, Williamsburg, VA, April 23, 1999.
44. Boston College, Boston, MA, April 27, 1999.
45. Parke-Davis Pharmaceuticals, Holland, MI, May 24, 1999.
46. University of Chicago, Chicago, IL, May 25, 1999.
47. Abbot Laboratories, Abbot Park, IL, May 26, 1999.
48. University of Illinois at Chicago, Chicago, IL, May 27, 1999.
49. DuPont Experimental Station, Wilmington, DE, September 13, 1999.
50. Eastman Kodak Company, Rochester, NY, October 7, 1999.
51. University of Rochester, Rochester, NY, October 8, 1999.
52. University of Vermont, Burlington, VT, October 28, 1999.
53. Bristol-Myers Squibb, Syracuse, NY, November 5, 1999.
54. University of Missouri-St. Louis, St. Louis, MS, January 10, 2000.
55. Johnson Matthey Pharmaceuticals, NJ, January 19, 2000.

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56. University of California at Los Angeles, Los Angeles, CA, January 31, 2000.
57. Amgen[®], Thousand Oaks, CA, February 1, 2000.
58. Scripps Research Institute, La Jolla, CA, February 2, 2000.
59. Griffith University, Brisbane, QLD, February 14, 2000.
60. University of Queensland, Brisbane, QLD, February 15, 2000.
61. University of Sydney, Sydney, NSW, February 16, 2000.
62. University of New South Wales, Sydney, NSW, February 17, 2000.
63. University of Wollongong, Wollongong, NSW, February 18, 2000.
64. University of Melbourne, Melbourne, VC, February 21, 2000.
65. Monash University, Melbourne, VC, February 22, 2000.
66. University of Tasmania, Hobart, TAS, February 23, 2000.
67. Flinders University, Adelaide, SA, February 24, 2000.
68. University of Adelaide, Adelaide, SA, February 25, 2000.
69. University of Western Australia, Perth, WA, February 29, 2000.
70. Parke-Davis Pharmaceuticals, Holland, MI, March 14, 2000.
71. Cambridge University, Cambridge, UK, May 22, 2000.
72. Indiana University, Bloomington, IN, April 3, 2000.
73. Guilford Pharmaceuticals, Baltimore, MD, June 7, 2000.
74. Guilford Pharmaceuticals, Baltimore, MD, June 7, 2000.
75. Indiana University, Bloomington, IN, July 10, 2000.
76. University of Maryland, College Park, MD, September 14, 2000.
77. Michigan State University, East Lansing, MI, September 21, 2000
78. Pfizer Pharmaceuticals, Ann Arbor, MI, September 22, 2000.
79. University of Toledo, Toledo, OH, September 25, 2000.
80. University of Michigan, Ann Arbor, MI, September 26, 2000.
81. Wayne State University, Detroit, MI, September 27, 2000.
82. Bristol-Myers Squibb, New Brunswick, NJ, October 25, 2000.
83. Northwestern University, Evanston, IL, November 2, 2000.
84. Université Bordeaux 1, Bordeaux, Fr., December 6, 2000.

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85. ESCPE-Lyon, Lyon, Fr., December 7, 2000.
86. Merck Research Laboratories, West Point, PA, March 1, 2001.
87. Sepracor, Boston, MA, July 6, 2001.
88. Florida State University, Tallahassee, FL, October 2, 2001.
89. Purdue University, West Lafayette, IN, October 23, 2001.
90. University of Kentucky, Lexington, KY, November 9, 2001.
91. University of Pennsylvania, Philadelphia, PA, December 10, 2001.
92. Temple University, Philadelphia, PA, December 11, 2001.
93. University of Connecticut, Storrs, CT, February 20, 2002.
94. Pfizer Pharmaceuticals, Groton, CT, February 21, 2002.
95. Bayer Pharmaceutical Division, West Haven, CT, February 22, 2002.
96. Beijing University, Beijing, China, March 8, 2002.
97. Xiamen University, Xiamen, China, March 12, 2002.
98. Hong Kong University, Hong Kong, March 14, 2002.
99. Vanderbilt University, Nashville, TN, April 8, 2002.
100. Pharmacia, Kalamazoo, MI, April 25, 2002.
101. IUPUI, Indianapolis, IN, April 26, 2002.
102. Pharmacia, Stokie, IL, June 17, 2002.
103. Pharmacia, St Louis, MS, September 25, 2002.
104. Schering-Plough Research Institute, Kenilworth, New Jersey January 16, 2003.
105. Bristol-Myers Squibb Company, Princeton, NJ, March 7, 2003.
106. University of California at Davis, Davis, CA, April 3, 2003.
107. Exelixis, So. San Francisco, CA, April 4, 2003.
108. Oregon State University, Corvallis, OR, April 7, 2003.
109. Array BioPharma, Boulder, CO, April 11, 2003.
110. University of Montreal, Montreal, QC, April 23, 2003.
111. Abbot Laboratories, Abbot Park, IL, May 13, 2003.
112. ArQule, Inc., Woburn, MA, July 18, 2003.
113. Wyeth Research, Pearl River, NY, September 5, 2003.

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114. Roche Palo Alto, Palo Alto, CA, November 7, 2003.
115. Oklahoma University, Norman, OK, February 23, 2004.
116. University of Toledo, Toledo, OH, March 3, 2004.
117. Princeton University, Princeton, NJ, March 9, 2004.
118. Merck Research Laboratories, Rahway, NJ, March 10, 2004.
119. Stanford University, Stanford, CA, March 17, 2004.
120. Cytokinetics Inc., South San Francisco, CA, March 18, 2004.
121. Bristol-Myers Squibb Company, New Brunswick, NJ, March 23, 2004.
122. Novartis Pharmaceuticals Corporation, East Hanover, NJ, March 24, 2004.
123. Pfizer GRD, La Jolla, CA, April 6, 2004.
124. University of California San Diego, La Jolla, CA, April 7, 2004.
125. University of Florida Gainesville, FL, April 30, 2004.
126. Incyte Corporation, Wilmington, DE, September 16, 2004.
127. Yale University, New Haven, CT, October 13, 2004.
128. SUNY at Buffalo, Buffalo, NY, October 27, 2004.
129. University of Florida Gainesville, FL, November 5, 2004.
130. University of Michigan, Ann Arbor, MI, November 8, 2004.
131. Pfizer Pharmaceuticals, Ann Arbor, MI, November 9, 2004.
132. Johnson and Johnson Pharmaceuticals, La Jolla, CA, January 28, 2005.
133. San Diego State University, San Diego, CA, January 28, 2005.
134. University of Manchester, Manchester, UK, February 28, 2005.
135. University of Nottingham, Nottingham, UK, March 1, 2005.
136. AstraZeneca R&D Charnwood, Loughborough, UK, March 2, 2005.
137. Oxford University, Oxford, UK, March 3, 2005.
138. Eli Lilly Pharmaceuticals, Windlesham, UK, March 4, 2005.
139. Pfizer GRD, St Louis, MS, April 4, 2005.
140. McGill University, Montreal, QC, May 5, 2005.
141. University of Liverpool, Liverpool, UK, June 20, 2005.
142. Amgen[®], Boston, MA, July 22, 2005.

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143. University of Notre Dame, Notre Dame, IN, September 8, 2005.
144. Colorado State University, Fort Collins, CO, September 26, 2005.
145. University of Colorado at Boulder, Boulder, CO, September 27, 2005.
146. University of Alberta, Edmonton, AL, October 7, 2005.
147. North Carolina State University, Raleigh, NC, October 21, 2005.
148. Hong Kong University, Hong Kong, December 12, 2005.
149. Hong Kong Baptist University, Hong Kong, December 13, 2005.
150. SmithKlineGlaxo, King of Prussia, PA, May 16, 2005.
151. Scios, Inc. Fremont, CA, May 19, 2006.
152. Sepracor, Inc., Marlborough, MA, May 22, 2006.
153. AstraZeneca, Alderley Park, UK, November 20, 2006.
154. University of Warwick, Coventry, UK, December 7, 2006.
155. Syngenta, Jealotts Hill, Berkshire, UK, December 12, 2006.
156. SmithKlineGlaxo, Stevenage, Hertfordshire, UK, December 14, 2006.
157. Duke University, Durham, NC, March 28, 2007.
158. Syngenta, Basel, CH, April 19, 2007.
159. Wyeth Research, Princeton, NJ, USA, May 30, 2007.
160. Novartis, Emeryville, CA, USA, August 15, 2007.
161. Novartis, Boston, MA, USA, August 17, 2007.
162. Rutgers, The State University of New Jersey, Piscataway, CA, USA, October 5, 2007.
163. The University of Reading, Reading, UK, October 23, 2007.
164. Novartis, Horsham, UK, October 24, 2007.
165. Imperial College, London, UK, October 30, 2007.
166. Novartis, Vienna, AU, November 5, 2007.
167. Novartis, Basel, CH, November 7, 2007.
168. University of Cardiff, Cardiff, UK, November 19, 2007.
169. University of Leeds, Leeds, UK, November 21, 2007.
170. Novartis, Tsukuba, JP, December 13, 2007.
171. GlaxoSmithKline, Tonbridge, UK, January 16, 2008.

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172. University of Sheffield, Sheffield, UK, February 27, 2008.
173. University of Cambridge, Cambridge, March 3, 2008.
174. Louisiana State University, Baton Rouge, LA, USA, April 4, 2008.
175. Array BioPharma, Boulder, CO, USA, April 9, 2008.
176. University of Colorado at Boulder, Boulder, CO, USA, April 10, 2008.
177. University of Sussex, Falmer, Brighton, UK, April 30, 2008.
178. University of Geneva, Geneva, CH, May 23, 2008.
179. Institute for Cancer Research, Sutton, UK, May 28, 2008.
180. AstraZeneca, Macclesfield, UK, June 2, 2008.

Graduate Recruiting Visits and Seminars:

1. Lycoming College, Williamsport, PA, October 20, 1995.
2. Lebanon Valley College of Pennsylvania, Annville, PA, October 15, 1996.
3. Indiana University of Pennsylvania, Indiana, PA, October 16, 1996.
4. Ursinus College, Collegeville, PA, November 21, 1996.
5. College of William and Mary, Williamsburg, VA, January 23, 1997.
6. Wesleyan College, Rocky Mount, NC, January 24, 1997.
7. Fordham University, New York, NY, January 29, 1997.
8. Lafayette College, Easton, PA, February 12, 1997.
9. Washington College, Chestertown, MD, December 4, 1997.
10. Wilkes University, Wilkes-Barre, PA, February 4, 1998.
11. Slippery Rock University, Slippery Rock, PA, May 4, 1998.
12. Towson University, Towson, MD, October 8, 1998.
13. Rider University, Lawrenceville, NJ, October 22, 1998.
14. Muhlenburg College, Allentown, PA, November 4, 1998.
15. Gettysburg College, Gettysburg, PA, November 19, 1998.
16. Lycoming College, Williamsport, PA, February 12, 1999.
17. Edinboro University, Edinboro, PA, March 26, 1999.
18. Indiana University of Pennsylvania, Indiana, PA, November 11, 1999.
19. Carnegie Mellon University, Pittsburgh, PA, December 1, 1999.

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20. Penn State Erie, The Behrend College, Erie, PA, December 2, 1999.
21. Allegheny College, Meadville, PA, December 3, 1999.
22. Fordham University, New York, NY, March 8, 2000.
23. Slippery Rock University, Slippery Rock, PA, November 12, 2000.
24. Youngstown State University, Youngstown, OH, October 4, 2001.
25. Allegheny College, Meadville, PA, October 5, 2001.
26. The College of Wooster, Wooster, OH, November 8, 2001.
27. Union University, Jackson, TN, April 18, 2002.
28. Wright State University, Dayton, OH, May 17, 2002.
29. Villanova University, Villanova, PA, November 11, 2002 (Graduate School Fair).
30. Sonoma State University, Rohnert Park, CA, November 6, 2003.
31. Oklahoma Baptist University, Shawnee, OK, February 24, 2004.
32. Cameron University, Lawton, OK, February 25, 2004.
33. Appalachian State University, Boone, NC, February 27, 2004.
34. Shippensburg University, Shippensburg, PA, October 8, 2004.
35. Swarthmore College, Swarthmore, PA, October 21, 2004.
36. The University of Maryland, Baltimore County, Baltimore, MD, February 7, 2005.
37. Albion College, Albion, MI, April 8, 2005.
38. Berea College, Berea, KY, October 27, 2005.
39. Eastern Kentucky University, Richmond, KY, October 28, 2005.