

P. Andrew Evans, Publications

Books:

2. “Science of Synthesis Reference Library – Stereoselective Synthesis” Ed’s H. DeVries, P. A. Evans and G. A. Molander, Thieme: Stuttgart, Vol. 3, 2011.
1. “Modern Rhodium-Catalyzed Organic Reactions” Ed. P. A. Evans, Wiley-VCH: Weinheim, 2005.

Organic Reactions:

9. Organic Reactions, Ed’s P. A. Evans and J. K. Cha, Wiley, 2022, Vol 109, *in press*.
8. Organic Reactions, Ed’s P. A. Evans, P. R. Blakemore, M. C. Kozłowski and K. H. Shaughnessy, Wiley, 2021, Vol 108, pp 1004.
7. Organic Reactions, Ed’s P. A. Evans, D. M. Huryn and S. M. Weinreb, Wiley, 2021, Vol 107, pp 1131.
6. Organic Reactions, Ed’s P. A. Evans and S. M. Weinreb, Wiley, 2021, Vol 106, pp 1378.
5. Organic Reactions, Ed’s P. A. Evans, S. E. Denmark and D. G. Hall, Wiley, 2021, Vol 105, pp 906.
4. Organic Reactions, Ed’s P. A. Evans, G. A. Molander and S. M. Weinreb, Wiley, 2020, Vol 104, pp 916.
3. Organic Reactions, Ed’s P. A. Evans, J. Montgomery, J. Aubé and J. B. Johnson, Wiley, 2020, Vol 103, pp 1370.
2. Organic Reactions, Ed’s P. A. Evans and J. K. Cha, Wiley, 2020, Vol 102, pp 978.
1. Organic Reactions, Ed’s P. A. Evans and S. M. Weinreb, Wiley, 2020, Vol 101, pp 977.

Book Chapters:

4. A. J. Burnie and P. A. Evans in “Topics in Organometallic Chemistry: Rhodium Catalysis” Ed. C. Clamer, Springer: 2018, Vol. 61, pp 167-230.
3. P. A. Inglesby and P. A. Evans in “Comprehensive Organic Synthesis II” Eds. G. A. Molander and P. Knochel, Elsevier: Oxford, 2014, Vol. 5, pp 656-702.
2. P. A. Evans in “Metathesis in Natural Product Synthesis” Ed’s. J. Cossy, C. Meyer, S. Arseniyadis, VCH: Weinheim, 2010, Ch. 8, pp 225-259.
1. D. K. Leahy and P. A. Evans in “Modern Rhodium-Catalyzed Organic Reactions” Ed. P. A. Evans, Wiley-VCH: Weinheim, 2005, Ch. 10, pp 191-214.

Publications:

Independent Research:

130. A Unified Approach to the Enantioselective Total Synthesis of the Thapsigargin from (*R*)-(-)-Carvone”
M. Aeluri, D. Chen and P. A. Evans, *In Preparation*.
129. “Enantioselective Rhodium-Catalyzed Pauson-Khand Reaction of Chloro-1,6-Enynes at Room Temperature: Construction of Quaternary and Vicinal Stereogenic Centers”
M. P. Ylagan, H. Yu, D. E. Negru, P. Ricci, M.-H. Baik and P. A. Evans, *In Preparation*.
128. “Vanadium(1+), tri- μ -chlorohexakis(tetrahydrofuran)di-, di- μ -chlorotetrachlorodizincate(2-) (2:1)”
M. Aeluri and P. A. Evans, *Submitted*.
127. Kinetic Resolution of Alkenyl Cyanohydrins: Stereoselective Construction of *E*- and *Z*-Tetrasubstituted Alkenes
J. Majhi, J. Park, H. Ryu, M.-H. Baik and P. A. Evans, *Submitted*.
126. “Palladium-Catalyzed Cross-Coupling of Cyanohydrins with Aryl Bromides: Construction of Biaryl Ketones”
J. Majhi, B. Zhou, Y. Zhuang, H. Dai and P. A. Evans, *Submitted*.
125. “Asymmetric Rhodium-Catalyzed Allylic Substitution Reactions with Nitrile-Stabilized Carbanions”
M.-J. Tom and P. A. Evans, **2022**, *33*, *eFirst*.
124. “Catalytic Enantioselective Alkylation of Prochiral Enolates”
T. B. Wright and P. A. Evans, *Chem. Rev.* **2021**, *120*, 9196.
123. “Diastereoselective Intramolecular Rhodium-Catalyzed [(3+2+2)] Carbocyclization Reactions with Tethered Alkynylidenecyclopropanes: Synthesis of the Tremulane Sesquiterpene Natural Products”
P. A. Evans, M. J. Dushnicky, D. Cho, J. Majhi, S. Choi, B. V. Pipaliya, P. A. Inglesby and M.-H. Baik, *Asian J. Org. Chem.* **2021**, *9*, 2174.
122. “Truncated Actin-Targeting Macrolide Derivative that Blocks Cancer Cell Motility and Invasion of Extracellular Matrix”
B. V. Pipaliya, D. N. Trofimova, R. L. Grange, M. Aeluri, X. Deng, K. Shah, A. W. Craig, J. S. Allingham and P. A. Evans, *J. Am. Chem. Soc.* **2021**, *143*, 6847.

121. “Regio- and Diastereoselective Rhodium-Catalyzed Allylic Substitution with Unstabilized Benzyl Nucleophiles”
D. Pal, T. B. Wright, R. O’Connor and P. A. Evans, *Angew. Chem. Int. Ed.* **2021**, *60*, 2987.
120. “Regioselective and Stereospecific Rhodium-Catalyzed Allylic Cyanomethylation with an Acetonitrile Equivalent: Construction of Acyclic β -Quaternary Stereogenic Nitriles”
M.-J. Tom and P. A. Evans, *J. Am. Chem. Soc.* **2020**, *142*, 11957.
119. “A Concise and Modular Three-Step Synthesis of (*S*)-Verapamil using an Enantioselective Rhodium-Catalyzed Allylic Alkylation Reaction”
M.-J. Tom, B. W. H. Turnbull and P. A. Evans, *Synthesis*, **2020**, *52*, 2185.
118. “Copper-Catalyzed Desymmetrization of Prochiral 4,4-Disubstituted Cyclopentenes *via* a Site-Selective Allylic Oxidation Reaction: A Concise Total Synthesis of Untenone A”
Q. Gui, J.-J. Wang, S. Ng, A. Dancevic, T. B. Wright and P. A. Evans, *Chem. Commun.* **2019**, *55*, 12368.
117. “Dynamic Kinetic Resolution of Alkenyl Cyanohydrins Derived from α,β -Unsaturated Aldehydes: Stereoselective Synthesis of *E*-Tetrasubstituted Olefins”
J. Majhi, B. W. H. Turnbull, H. Ryu, J. Park, M.-H. Baik and P. A. Evans, *J. Am. Chem. Soc.* **2019**, *141*, 11770.
116. “A Natural Solution to the Photoprotection and Isolation of the Potent Polyene Antibiotic, Marinomycin A-C”
C. S. Bailey, J. S. Zarins-Tutt, M. Agbo, A. D. Taboada, M. Gan, E. R. Abraham, R. Hamed, G. Mackenzie, P. A. Evans and R. J. M. Goss, *Chem. Sci.* **2019**, *10*, 7549.
115. “Enantioselective Rhodium-Catalyzed Allylic Alkylation of β,γ -Unsaturated α -Amino Nitriles: Synthetic Homoenolate Equivalents”
T. B. Wright, B. W. H. Turnbull and P. A. Evans, *Angew. Chem. Int. Ed.* **2019**, *58*, 9886.
114. “Effects of Modulating Actin Dynamics on HER2 Cancer Cell Motility and Metastasis”
S. Nersesian, R. Williams, D. Newsted, P. A. Evans, J. S Allingham and A. W Craig, *Sci. Reports*, **2018**, *8*, 17243.
113. “(11*bR*)-4-methoxydinaphtho[2,1-*d*:1',2'-*f*][1,3,2]dioxaphosphepine, [(*R*)-BINOL-POMe] & (11*bS*)-4-methoxydinaphtho[2,1-*d*:1',2'-*f*][1,3,2]dioxaphosphepine, [(*S*)-BINOL-POMe]”
T. W. Wright and P. A. Evans, *e-EROS*, **2018**, 1-5.

112. “Asymmetric Rhodium-Catalyzed Allylic Substitution Reactions: Discovery, Development and Applications to Target Directed Synthesis”
B. W. H. Turnbull and P. A. Evans, *J. Org. Chem.* **2018**, *83*, 11463.
111. “Rhodium-Catalyzed [(3+2)+1] Carbocyclizations of Alkynylidenecyclopropanes with Carbon Monoxide: Construction of Polysubstituted Bicyclohexa-2,5-dienones”
A. J. Burnie and P. A. Evans, *Chem. Commun.* **2018**, *54*, 7621.
110. “Intramolecular Thioether Migration in the Rhodium-Catalyzed Ene-Cycloisomerization of Alkenylidenecyclopropanes by a Metal-Mediated β -Sulfide Elimination”
Y. Su, P. A. Inglesby and P. A. Evans, *Angew. Chem. Int. Ed.* **2018**, *57*, 673.
109. “A Concise, Efficient and Scalable Total Synthesis of Thapsigargin and Nortrilobolide from (*R*)-(-)-Carvone”
D. Chen and P. A. Evans, *J. Am. Chem. Soc.* **2017**, *139*, 6046.
108. “Regio- and Stereospecific Rhodium-Catalyzed Allylic Alkylation with an Acyl Anion Equivalent: An Approach to Acyclic α -Ternary β,γ -Unsaturated Aryl Ketones”
B. W. H. Turnbull, J. Chae, S. Oliver and P. A. Evans, *Chem. Sci.* **2017**, *8*, 4001.
107. “Enantioselective Rhodium-Catalyzed Allylic Alkylation of Prochiral α,α -Disubstituted Aldehyde Enolates for the Construction of Acyclic Quaternary Stereogenic Centers”
T. B. Wright and P. A. Evans, *J. Am. Chem. Soc.* **2016**, *138*, 15303.
106. “Recent Developments in Asymmetric Allylic Amination Reactions”
R. L. Grange, E. A. Clizbe and P. A. Evans, *Synthesis*, **2016**, *48*, 2911.
105. “Medium Ring Stereocontrol in the Temporary Silicon-Tethered Ring-Closing Metathesis Approach to the Synthesis of Polyketide Fragments”
P. A. Evans, A. Cusak, A. Grisin and M. J. Lawler, *Synthesis*, **2016**, *48*, 2402.
104. “Stereospecific Rhodium-Catalyzed Allylic Substitution with Alkenyl Cyanohydrin Pronucleophiles: Construction of Acyclic Quaternary Substituted α,β -Unsaturated Ketones”
B. W. H. Turnbull, S. Oliver and P. A. Evans, *J. Am. Chem. Soc.* **2015**, *137*, 49, 15347.
103. Diastereoselective Construction of *anti*-4,5-Disubstituted-1,3-Dioxolanes *via* a Bismuth-Mediated Two-Component Hemiacetal Oxa-Conjugate Addition of γ -Hydroxy- α,β -Unsaturated Ketones with Paraformaldehyde”
A. Grisin, S. Oliver, M. D. Ganton, J. Bacsá and P. A. Evans, *Chem. Commun.* **2015**, *51*, 15681.

102. “The Origin of the Ligand-Controlled Regioselectivity in Rh-Catalyzed [(2+2)+2] Carbocyclizations: Steric vs. Stereoelectronic Effects”
D. W. Crandell, S. Mazumder, P. A. Evans, and M.-H. Baik, *Chem. Sci.* **2015**, *6*, 6896.
101. “A Highly Convergent and Enantioselective Synthesis of the C31-C31 Fragment of Amphidinol 3 Featuring a Temporary Silicon-Tethered Ring-Closing Metathesis Reaction: Confirmation of the Revised Relative Stereochemistry”
A. Grisin and P. A. Evans, *Chem. Sci.* **2015**, *6*, 6407.
100. “Enantioselective Rhodium-Catalyzed Allylic Substitution with a Nitrile Anion: Construction of Acyclic Quaternary Carbon Stereogenic Centers”
B. W. H. Turnbull and P. A. Evans, *J. Am. Chem. Soc.* **2015**, *137*, 6156.
99. “Rhodium-Catalyzed [(3+2)+2] Carbocyclization of Alkynylidenecyclopropanes with Substituted Allenes: Stereoselective Construction of Tri- and Tetrasubstituted Exocyclic Olefins”
P. A. Evans, D. E. Negru and D. Shang, *Angew. Chem. Int. Ed.* **2015**, *54*, 4768.
98. “Enantioselective Construction of C-Chiral Sulfilimines via the Iridium-Catalyzed Allylic Amination with *S,S*-Diphenylsulfilimine: Asymmetric Synthesis of Primary Allylic Amines”
R. L. Grange, E. A. Clizbe, E. J. Counsell and P. A. Evans, *Chem. Sci.* **2015**, *6*, 777.
97. “Rhodium-Catalyzed [(3+2)+1] Carbocyclization Reactions of Alkynylidenecyclopropanes with Carbon Monoxide: Regiospecific Construction of Polysubstituted Phenols”
P. A. Evans, A. J. Burnie and D. E. Negru, *Org. Lett.* **2014**, *16*, 4356.
96. “Metal-Free Metathesis Reaction of C-Chiral Allylic Sulfilimines with Aryl Isocyanates: Construction of Chiral Nonracemic Allylic Isocyanates”
R. L. Grange and P. A. Evans, *J. Am. Chem. Soc.* **2014**, *136*, 11870.
95. “A Convenient, Economical and Scalable Multi-Gram Synthesis of 1-Vinylcyclopropyl-4-methylbenzenesulfonate”
O. S. Ojo, P. A. Inglesby, D. E. Negru and P. A. Evans *Org. Chem. Front.* **2014**, *1*, 821.
94. “The Isolation and Characterization of a Rhodacycle Intermediate Implicated in Metal-Catalyzed Reactions of Alkylidenecyclopropanes”
P. A. Inglesby, J. Bacsá, D. E. Negru and P. A. Evans *Angew. Chem. Int. Ed.* **2014**, *53*, 3952.
93. “Transition Metal-Catalyzed Allylic Substitution Reactions: Stereoselective Construction of α - and β -Substituted Carbonyl Compounds”

- S. Oliver and P. A. Evans, *Synthesis* **2013**, *45*, 3179.
92. “Regio- and Enantiospecific Rhodium-Catalyzed Allylic Substitution with an Acyl Anion Equivalent”
P. A. Evans and S. Oliver, *Org. Lett.* **2013**, *15*, 5626.
91. “Stereoselective Rhodium-Catalyzed [(3+2)+2] carbocyclization Reaction of Trialkoxysilyl-Substituted Alkenylidenecyclopropanes with Monosubstituted Alkynes”
P. A. Evans, T. Baikstis and P. A. Inglesby *Tetrahedron* **2013**, *69*, 7826.
90. “A Concise Total Synthesis of Pyrovellerolactone Using a Rhodium-Catalyzed [3+2+2] Carbocyclization Reaction”
P. A. Evans, P. A. Inglesby and K. Kilbride *Org. Lett.* **2013**, *15*, 1798.
89. “Rhodium-Catalyzed Allylic Substitution with an Acyl Anion Equivalent: Stereospecific Construction of Acyclic Quaternary Carbon Stereogenic Centers”
P. A. Evans, S. Oliver and J. Chae *J. Am. Chem. Soc.* **2012**, *134*, 19314.
88. “Stereoselective Rhodium-Catalyzed [3+2+1] Carbocyclization of Alkenylidenecyclopropanes with Carbon Monoxide: Theoretical Evidence for a Trimethylenemethane Metallacycle Intermediate”
S. Mazumder, D. Shang, D. E. Negru, M.-H. Baik and P. A. Evans *J. Am. Chem. Soc.* **2012**, *134*, 20569.
87. “Total Synthesis of Marinomycin A Using Salicylate as a Molecular Switch to Mediate Dimerization”
P. A. Evans, M.-H. Huang, M. J. Lawler and S. Maroto *Nature Chem.* **2012**, *4*, 680.
86. “Enantioselective Rhodium-Catalyzed Allylic Alkylation of Acyclic α -Alkoxy Substituted Ketones using a Chiral Monodentate Phosphite Ligands”
P. A. Evans, E. A. Clizbe, M. J. Lawler and S. Oliver *Chem. Sci.* **2012**, *3*, 1835.
85. “Diastereoselective Rhodium-Catalyzed Ene-Cycloisomerization Reaction of Alkenylidenecyclopropanes: Total Synthesis of (–)- α -Kainic Acid”
P. A. Evans and P. A. Inglesby *J. Am. Chem. Soc.* **2012**, *134*, 3635.
84. “Diastereoselective Construction of *syn*-1,3-Diols via a Bismuth-Mediated Two-Component Hemiacetal/Oxa-Conjugate Addition Reaction”
P. A. Evans, A. Grisin and M. J. Lawler *J. Am. Chem. Soc.* **2012**, *134*, 2856.

83. “Computationally Designed and Experimentally Confirmed Diastereoselective Rhodium-Catalyzed Pauson-Khand Reaction at Room Temperature”
M.-H. Baik, J. S. Mazumder, P. Ricci, J. R. Sawyer, Y.-G. Song, H. Wang and P. A. Evans *J. Am. Chem. Soc.* **2011**, *133*, 7621.
82. “Regiodivergent Ligand-Controlled Rhodium-Catalyzed [(2+2)+2] Carbocyclization Reactions with Alkyl Substituted Methyl Propiolates”
P. A. Evans, J. R. Sawyer and P. A. Inglesby *Angew. Chem. Int. Ed.* **2010**, *49*, 5746.
81. “Stereoselective Transition Metal-Catalysed Higher-Order Carbocyclisation Reactions”
P. A. Inglesby and P. A. Evans *Chem. Soc. Rev.* **2010**, *39*, 2791.
80. “Unlocking Ylide Reactivity in the Metal-Catalyzed Allylic Substitution Reaction: Stereospecific Construction of Primary Allylic Amines with Aza-Ylides”
P. A. Evans and E. A. Clizbe *J. Am. Chem. Soc.* **2009**, *131*, 8722.
79. “Intermolecular Rhodium-Catalyzed [3+2+2] Carbocyclization of Alkenylidenecyclopropanes 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.
78. “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.
77. “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.
76. “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.
75. “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.
74. “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.
73. “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.
72. “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.
71. “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.
70. “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.
69. “*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.
68. “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.
67. 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.
66. 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.
65. 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. Uruguchi *Angew. Chem., Int. Ed.* **2004**, *43*, 4788 (*Hot Paper*).

64. “Regio- and Diastereoselective Rhodium-Catalyzed Allylic Substitution with Acyclic α -Alkoxy-Substituted Copper(I) Enolates: Stereodivergent Approach to 2,3,6-Trisubstituted Dihydropyrans”
P. A. Evans and M. J. Lawler *J. Am. Chem. Soc.* **2004**, *126*, 8642.
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.
62. “Enantioselective Total Synthesis of the Potent Antitumor Agent (-)-Mucocin using a Temporary Silicon-Tethered Ring-Closing Metathesis Cross-Coupling Reaction”
P. A. Evans, J. Cui, S. J. Gharpure, A. Polosukhin, and H. -R. Zhang *J. Am. Chem. Soc.* **2003**, *125*, 14702.
61. “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.
60. “Recent Developments in Rhodium-Catalyzed Allylic Substitution and Carbocyclization Reactions”
P. A. Evans and D. K. Leahy *Chemtracts* **2003**, *16*, 567.
59. “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.
58. “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.
57. “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.
56. “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.
55. “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*).
54. “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.
53. “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.
52. “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.
51. “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.
50. “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.
49. “Regioselective Rhodium-Catalyzed Allylic Alkylation/Ring-Closing Metathesis Approach to Carbocycles”
P. A. Evans and L. J. Kennedy *Tetrahedron Lett.* **2001**, *42*, 7015.
48. “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.
47. “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.

46. “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.
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.
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.
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.
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.
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.
40. “Enantioselective Palladium-Catalyzed Allylic Alkylation with *E*- and *Z*-Vinylogous Sulfonates”
P. A. Evans and T. A. Brandt *Org. Lett.* **1999**, *1*, 1563.
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.
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.
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.

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.
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.
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.
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.
32. "Regioselective Rhodium Catalyzed Allylic Alkylation with a *Modified Wilkinson's Catalyst*"
P. A. Evans and J. D. Nelson, *Tetrahedron Lett.* **1998**, *39*, 1725.
31. "Vinylogous Sulfonates as Radical Acceptors for the Stereoselective Synthesis of Cyclic Ethers"
P. A. Evans and T. Manangan, *Tetrahedron Lett.* **1997**, *38*, 8165.
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.
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.
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.
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.
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.

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.
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.
23. "Novel Haloacetoxylation of 1,4-Dimethoxynaphthalenes using Hypervalent Iodine Chemistry"
P. A. Evans and T. A. Brandt, *Tetrahedron Lett.* **1996**, 37, 6443.
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.
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.
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.
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.
18. "Novel Approach to Lactams *via* (Triisopropylsilyl)azidohydrin Formation and Photo-Induced Schmidt Rearrangement"
P. A. Evans and D. P. Modi, *J. Org. Chem.*, **1995**, 60, 6662.
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.
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.

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.
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.
13. "Regioselective Preparation of α -Nitro Cyclohexyl Triisopropylsilyl Enol Ethers"
P. A. Evans and J. M. Longmire, *Tetrahedron Lett.* **1994**, *35*, 8345.

Postdoctoral Research:

12. "Applications of the β -Azidation 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.
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.
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.
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.

Ph.D. Research:

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.
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.
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.
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.
 4. “Synthesis of Monocyclic Medium Ring Lactams”
P. A. Evans, A. B. Holmes, and K. Russell, *Tetrahedron Lett.* **1992**, 33, 6857.
 3. “Medium Ring Heterocycles”
P. A. Evans and A. B. Holmes, *Tetrahedron* **1991**, 47, 9131.
 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.
 1. “Synthesis of Homochiral Unsaturated Seven-Membered Lactams”
P. A. Evans, A. B. Holmes and K. Russell, *Tetrahedron: Asymmetry* **1990**, 1, 593.

Patents:

4. U.S. Patent No.: US 11,168,064 B2
Inventors: P. Andrew Evans and Dezhi Chen
Title: Synthesis of Thapsigargin, Nortrilobolide, and Analogs Thereof
Issue Date: November 9, 2021.
3. U.S. Provisional Patent Application No.: 62/547,254
Inventors: Rebecca Grange, John Allingham, Andrew Craig and Andrew Evans
Title: Cytotoxic Actin-Targeting Compounds
Filing Date: August 18, 2017
2. International Patent Application No.: PCT/CA2018/050369
Inventors: Andrew Evans and Dezhi Chen
Title: Synthesis of Thapsigargin, Nortrilobolide, and Analogs Thereof
Filing Date: March 27, 2018.
1. International Patent Application No.: PCT/CA2018/051000
Inventors: Rebecca Grange, John Allingham, Andrew Craig, Andrew Evans and Madhu Aeluri
Title: Cytotoxic Actin-Targeting Compounds
Filing Date: August 17, 2018.