

Sarah E. Reisman

Division of Chemistry and Chemical Engineering • California Institute of Technology
Mail Code 101-20, 1200 E. California Blvd, Pasadena, CA 91125
(626) 395-6044 • reisman@caltech.edu
<http://reismangroup.caltech.edu>

POSITION

- 9/2020 to present **Bren Professor Chemistry**
*Division of Chemistry & Chemical Engineering
California Institute of Technology, Pasadena, CA*
- 7/2015 to 7/2021 **Executive Officer for Chemistry**
*Division of Chemistry & Chemical Engineering
California Institute of Technology, Pasadena, CA*
- 7/2015 to 7/2021 **Investigator, Heritage Medical Research Institute**
California Institute of Technology, Pasadena, CA
- 6/2014 to 8/2020 **Professor of Chemistry**
*Division of Chemistry & Chemical Engineering
California Institute of Technology, Pasadena, CA*
- 6/2008 to
6/2014 **Assistant Professor of Chemistry**
*Division of Chemistry & Chemical Engineering
California Institute of Technology, Pasadena, CA*

EDUCATION & TRAINING

- 2006-2008 **Harvard University, Cambridge, MA**
National Institutes of Health Postdoctoral Fellow with Professor Eric N. Jacobsen
- 2001 - 2006 **Yale University, New Haven, CT**
Ph.D. in Organic Chemistry with Professor John L. Wood
- 1997 - 2001 **Connecticut College, New London, CT**
B.A. in Chemistry, *Cum Laude*
Undergraduate research with Professor Timo V. Ovaska

AWARDS & HONORS

- The Mukaiyama Award (Society of Synthetic Organic Chemistry of Japan, 2023)
- A. R. Katritzky Junior Award in Heterocyclic Chemistry (2022)
- The Inhoffen Medal (2022)
- Associated Students of California Institute of Technology (ASCIT) Teaching Award (2021)
- American Chemical Society Elias J. Corey Award (2020)
- Research Corporation for Science Advancement FRED Award (2019)
- The Margaret Faul Women in Chemistry Award (2019)
- The OMCOS Award (2019)
- Dr. James King, Jr. Award for Supporting Student Diversity, Caltech (2018)
- Heritage Medical Research Institute Investigator (2015-2018, 2018-2021)
- The Society of Synthetic Organic Chemistry, Japan Lectureship Award (2015)
- 2015 Bright Young Minds, recognized by *Science News* (2015)
- Bristol-Myers Squibb Unrestricted Grant in Synthetic Organic Chemistry (2014-2015)
- Tetrahedron Young Investigator Award (2014)
- Academy of Achievement, Delegate (2014)
- Arthur C. Cope Scholar Award (2013)
- American Cancer Society Research Scholar Award (2013-2016)
- Eli Lilly Grantee (2012-13)
- Novartis Early Career Award (2012-14)
- DuPont Young Professor Grant (2012-14)

- Amgen Young Investigator Award (2012)
- Camille Dreyfus Teacher-Scholar Award (2012)
- Cottrell Scholar Award (2012)
- Alfred P. Sloan Research Fellowship (2012)
- ACS WCC Rising Star Award (2012)
- Boehringer Ingelheim New Faculty Grant (2011)
- NSF CAREER Award (2011-2015)
- ACS PRF Doctoral New Investigator Award (2011-2013)
- Thieme Chemistry Journal Award (2011)
- Baxter Foundation New Faculty Award (2008)
- NIH NRSA Postdoctoral Fellowship (2006-2008)
- Certificate of Distinction in Teaching (Harvard College) (2006)
- Wolfgang Prize for Best Thesis (Yale University) (2006)
- Bristol-Myers Squibb Graduate Research Fellowship (2004-2005)
- Roche Pharmaceuticals Excellence in Chemistry Award (2004)
- Arthur J. and Helen Hill Endowed Fellowship (Yale University) (2004)
- Yale University Chemistry Department Teaching Award (Yale University) (2003)
- Jean V. Johnston Award in Chemistry (Connecticut College) (2001)
- Pfizer Summer Undergraduate Research Fellowship (2000)
- Award for Achievement in Organic Chemistry (Connecticut College) (1999)
- Lawrence Scholar Award (Connecticut College) (1997)

PROFESSIONAL ACTIVITIES

Associate Editor, <i>Journal of the American Chemical Society</i>	3/2021 to present
Advisory Board, Open Reaction Database	5/1/2020 to present
Associate Editor, <i>Organic Letters</i>	11/2018–12/2020
Member, Board of Editors, <i>Organic Syntheses</i>	8/2016–7/2023
Member, NIH Study Section, Synthetic and Biological Chemistry, A	6/1/2016–5/31/2022
Board Member, Medicinal and Biological Chemistry Foundation	7/2019 to 2/2022
Member, Board of Reviewing Editors, <i>Science</i>	10/2016–11/2018
Member, NSF CHE Committee of Visitors	5/2016
Member, Scialog Advisory Council, Research Corporation	4/10/2017
Editorial Advisory Board Member, <i>ACS Central Science</i>	11/2018 to present
Editorial Advisory Board Member, <i>Organic Letters</i>	3/2015–11/2018
Editorial Advisory Board Member, <i>Chem</i>	12/2015– present
Editorial Advisory Board Member, <i>Tetrahedron/Tetrahedron Letters</i>	12/2015–present
Member, American Chemical Society	2002–present

Reviewer: *Journal of the American Chemical Society*, *Organic Letters*, *Journal of Organic Chemistry*, *ACS Catalysis*, *Angewandte Chemie International Edition*, *Science*, *Nature*, *Nature Chemistry*, *Chemical Science*, *Chem*, *Tetrahedron Letters*

SERVICE

CCE Divisional Committees

- CCE Diversity Committee (2019–2021)
- Staffing & Long Range Planning, *ex of.* (2015–2021)
- Curriculum and Undergraduate Studies, *ex of.* (2015–2021)
- Faculty Advisor, Caltech Women in Chemistry
- Graduate Studies Committee (2012– 2021)
- Graduate Admissions (2008–2021)
- Safety Committee (2010–2021)
- Organic Chemistry Seminars Chair (2009–2015)
- Organic Subgroup Junior Faculty Search Committee (2009, 2010, 2013, 2015)
- Inorganic Subgroup Junior Faculty Search Committee (2010, 2012)

Institute Committees

- Chair, Faculty Building Committee, Resnick Sustainability Institute (2019 to present)
- Caltech Faculty Board (2022 to present)
- Caltech Faculty Board Steering Committee (2022 to present)
- Executive Committee, Resnick Sustainability Institute (2019–2021)
- Caltech Core Curriculum Working Group (2019–2020)
- Inclusive Caltech Core (IC2) (2017–2019)
- Library Committee (2012–2014)
- University Librarian Search Committee (2012–2013)
- Provost's Committee for Online Education (2012–2014)
- Online Education Curriculum Committee (2013–2014)

Other Service Activities

- Co-founder of Southern California Empowering Women in Organic Chemistry Chapter (2020–present)
- Co-organizer, *Organic Syntheses* Workshop on Organic Synthesis for New Investigators (2019, 2021, 2022)
- Mentor, NIH Mentoring Workshop for New Faculty in Organic and Biological Chemistry (2014)
- Caltech Women Mentoring Women Program, Advisory Board Member (2009 to 2013)
- Organizer for 2010 “SynCon” conference held at Caltech

PUBLICATIONS

Contributions from Independent Career:

75. Turro, R. F.; Wahlman, J.L.H.; Tong, Z.J.; Chen, X.; Yang, M.; Chen, E. P.; Hong, X.; Hadt, R. G.; Houk, K. N.; Yang, Y.-F.; Reisman, S. E. Mechanistic Investigation of Ni-Catalyzed Reductive Cross-Coupling of Alkenyl and Benzyl Electrophiles. *J. Am. Chem. Soc.* **2023**, *in revision*.
74. Kerkovious, J. K.; Wong, A. R.; Mak, V. W.; Reisman, S. E. “A convergent fragment coupling strategy to access quaternary stereogenic centers.” *Chem. Sci.* **2023**, *14*, 4397.
73. Lacker, C. R.; DeLano, T. J.; Chen, E. P.; Kong, J.; Belyk, K. M.; Piou, T.; Reisman, S. E. “Enantioselective Synthesis of *N*-Benzylic Heterocycles by Ni/Photoredox Dual Catalysis.” *J. Am. Chem. Soc.* **2022**, *144*, 20190.
72. Kerkovius, J. K.; Stegner, A.; Turlik, A.; Lam, P. K.; Houk, K. N.; Reisman, S. E. “A Pyridine Dearomatization Approach to the Matrine-Type Lupin Alkaloids.” *J. Am. Chem. Soc.* **2022**, *144*, 15938.
71. Turro, R. F.; Brandstätter, M.; Reisman, S. E. “Nickel-Catalyzed Reductive Alkylation of Heteroaryl Imines.” *Angew. Chem. Int. Ed.* **2022** e202207597.
70. Mendoza, S. D.; Rombola, M.; Tao, Y.; Zuend, S. J.; Götz, R.; McLaughlin, M. J.; Reisman, S. E. “Expanding the Chiral Monoterpene Pool: Enantioselective Diels–Alder Reactions of α -Acyloxy Enones.” *Org. Lett.* **2022**, *24*, 3802–3806.
69. Holman, K. R.; Stanko, A.M.; Richter, M.J.R.; Feng, S. S.; Gessesse, M. N.; Reisman, S. E. “Synthesis of Noraugustamine and Development of an Oxidative Heck/Aza-Wacker Cascade Cyclization.” *Org. Lett.* **2022**, *24*, 3019–3023.
68. Gnaim, S.; Bauer, A.; Zhang, H.-J.; Chen, L.; Gannet, C.; Malapit, C. A.; Hill, D. E.; Vogt, D.; Tang, T.; Daley, R.; Hao, W.; Quertenmont, M.; Beck, W. D.; Kandahari, E.; Vantourout, J. C.; Echeverria, P.-G.; Abruna, H.; Blackmond, D. G.; Minter, S.; Reisman, S. E.; Sigman, M. S.; Baran, P. S. Cobalt-Electrocatalytic Hydrogen Atom Transfer for Functionalization of Unsaturated C–C Bonds. *Nature* **2022**, *605*, 687.
67. Grünenfelder, D. C.; Navarro, R.; Wang, H.; Fastuca, N. J.; Butler, J. R.; Reisman, S. E. “Enantioselective Synthesis of (-)-C10-Hydroxyacutuminine.” *Angew. Chem. Int. Ed.* **2022**, e202117480.
66. Maser, M. R.; Reisman, S. E. “3D Computer Vision Models Predict DFT-Level HOMO-LUMO Gap Energies from Force-Field-Optimized Geometries.” *ChemRxiv*. DOI: 10.26434/chemrxiv-2021-11r61

65. Wong, A. R.; Fastuca, N. J.; Mak, V. W.; Kerkovius, J. K.; Stevenson, S. M.; Reisman, S. E. "Total Synthesis of the C₁₉ Diterpenoid Alkaloids (–)-Talatisamine, (–)-Liljestrandsine, and (–)-Liljestrandinine by a Fragment Coupling Approach." *ACS Cent. Sci.* **2021**, 2021, 7, 8, 1311.
64. Gao, Y.; Hill, D. E.; Hao, W.; McNicholas, B. J.; Vantourout, J. C.; Hadt, R. G.; Reisman, S. E.; Blackmond, D. G.; Baran, P. S. "Electrochemical Nozaki–Hiyama–Kishi Coupling: Scope, Applications, and Mechanism." *J. Am. Chem. Soc.* **2021**, 143, 9478.
63. Holman, K. R.; Stanko, A. M.; Reisman, S. E. "Palladium-Catalyzed Cascade Cyclizations Involving C–C and C–X Bond Formation: Strategic Applications in Natural Product Synthesis." *Chem. Soc. Rev.* **2021**, 50, 7891.
62. DeLano, T. J.; Dibrell, S. E.; Lacker, C. R.; Pancoast, A. R.; Poremba, K. E.; Cleary, L. B.; Sigman, M. S.; Reisman, S. E. Nickel-Catalyzed Asymmetric Reductive Cross-Coupling of α -Chloroesters with (Hetero)Aryl Iodides. *Chem. Sci.* **2021**, 12, 7758.
61. Dibrell, S. E.; Tao, Y.; Reisman, S. E. Synthesis of Complex Diterpenes: Strategies Guided by Oxidation Pattern Analysis. *Acc. Chem. Res.* **2021**, 54, 1360.
60. Nakayama, Y.; Maser, M. R.; Okita, T.; Dubrovskiy, A. V.; Campbell, T. L.; Reisman, S. E. "Total Synthesis of Ritterazine B." *J. Am. Chem. Soc.* **2021**, 143, 4187.
59. Maser, M. R.; Cui, A. Y.; Ryou, S.; Delano, T. J.; Yue, Y.; Reisman, S. E. "Multi-Label Classification Models for the Prediction of Cross-Coupling Reaction Conditions." *J. Chem. Inf. Model.* **2021**, 61, 156.
58. Fastuca, N. J.; Wong, A. R.; Mak, V. W.; Reisman, S. E. "Asymmetric Michael Addition of Dimethyl Malonate to 2-Cyclopenten-1-One Catalyzed by a Heterobimetallic Complex." *Org. Synth.* **2020**, 97, 327.
57. Hofstra, J. L.; DeLano, T. J.; Reisman, S. E. "Synthesis of Chiral Bisoxazoline Ligands: (3aR,3a'R,8aS,8a'S)-2,2'-(cyclopropane-1,1-diyl)bis(3a,8a-dihydro-8H-indeno[1,2-d]oxazole)." *Org. Synth.* **2020**, 97, 172.
56. Cowper, N. G. W.; Hess, M. J.; Chan, K. M.; Reisman, S. E. "A Copper-Catalyzed Asymmetric Oxime Propargylation Enables the Synthesis of the Gliovirin Tetrahydro-1,2-oxazine Core." *Chem. Sci.* **2020**, 11, 11897.
55. Blom, A. E. M.; Su, J. Y.; Repka, L. M.; Reisman, S. E.; Dougherty, D. A. "Synthesis and Biological Evaluation of a Series of Pyrroloindolines as Positive Allosteric Modulators of the $\alpha 1\beta 2\gamma 2$ GABA_A Receptor." *ACS Med. Chem. Lett.* **2020**, 11, 2204.
54. Ryou, S.; Maser, M. R.; Cui, A. Y.; DeLano, T. J.; Yue, Y.; Reisman, S. E. "Graph Neural Networks for the Prediction of Substrate-Specific Organic Reaction Conditions." ICML 2020 Workshop on Graph Representation Learning and Beyond. *Accepted*.
53. Wittmann, B. J.; Knight, A. M.; Hofstra, J. L.; Reisman, S. E.; Kan, J.; Arnold, F. H. "Diversity-Oriented Enzymatic Synthesis of Cyclopropane Building Blocks." *ACS Catal.* **2020**, 10, 7112.
52. Dibrell, S. E.; Poremba, K. E.; Reisman, S. E. "Nickel-Catalyzed Enantioselective Reductive Cross-Coupling Reactions." *ACS Catal.* **2020**, 8237.
51. Dibrell, S.E.; Maser, M.; Reisman, S.E. "SeO₂-Mediated Oxidative Transposition of Pauson–Khand Products." *J. Am. Chem. Soc.* **2020**, 142, 6483.
50. Han, A.; Tao, Y.; Reisman, S.E. "A 16-step synthesis of the isoryanodane diterpene (+)-perseanol." *Nature* **2019**, 573, 563.
49. DeLano, T.J.; Reisman, S.E. "Enantioselective Electroreductive Coupling of Alkenyl and Benzyl Halides via Nickel Catalysis." *ACS Catal.* **2019**, 9, 6751.
48. Hofstra, J. L.; Poremba, K. E.; Shimosono, A. M.; Reisman, S. E. "A Simple Procedure for the Conversion of Enol Triflates to Alkenyl Halides." *Angew. Chem. Int. Ed.* **2019**, 58, 14901.
47. Beck, J. C.; Lacker, C. R.; Chapman, L. M. "A Modular Approach to Prepare Enantioenriched Cyclobutanes: Synthesis of (+)-Rumphellaone A." *Chem. Sci.* **2019**, 10, 2315.
46. Su, J. Y.; Grünenfelder, D. C.; Takeuchi, K. "A Radical Deoxychlorination of Cesium Oxalates." *Org. Lett.* **2018**, 20, 4912.
45. Xu, C.; Han, A.; Reisman, S. E. "An Oxidative dearomatization Approach to Prepare the Pentacyclic Core of Ryanodol." *Org. Lett.* **2018**, 20, 3793.
44. Chapman, L. M.; Beck, J. C.; Lacker, C. R.; Wu, L. Reisman, S. E. "Evolution of a Strategy for the Enantioselective Total Synthesis of (+)-Psguadial B." *J. Org. Chem.* **2018**, 83, 6066–6085.

43. Farney, E. P.; Feng, S.; Schäfers, F.; Reisman, S. E. "Total Synthesis of (+)-Pleuromutilin." *J. Am. Chem. Soc.* **2018**, *140*, 1267.
42. Hofstra, J. L.; Cherney, A. H.; Ordner, C. M.; Reisman, S. E. "Synthesis of Enantioenriched Allylic Silanes via Ni-Catalyzed Reductive Cross-Coupling." *J. Am. Chem. Soc.* **2018**, *140*, 139.
41. Poremba, K. E.; Kadunce, N. T.; Suzuki, N.; Cherney, A. H.; Reisman, S. E. "Nickel-Catalyzed Asymmetric Reductive Cross-Coupling to Access 1,1-Diarylalkanes." *J. Am. Chem. Soc.* **2017**, *139*, 5684.
40. Wang, H.; Regan, C. J.; Codelli, J. A.; Romanato, P.; Puchlopeck-Dermenci, A. L. A.; Reisman, S. E. "Enantioselective Synthesis of (-)-Acetylpoaranotin." *Org. Lett.* **2017**, *19*, 1698.
39. Suzuki, N.; Hofstra, J. L.; Poremba, K. E.; Reisman, S. E. "Nickel-Catalyzed Enantioselective Cross-Coupling of *N*-Hydroxyphthalimide Esters with Vinyl Bromides." *Org. Lett.* **2017**, *19*, 2150.
38. Xu, C.; Han, A.; Virgil, S. J.; Reisman, S. E. "Chemical Synthesis of (+)-Ryanodine and (+)-20-Deoxyspiganthine." *ACS Cent. Sci.* **2017**, *3*, 278.
37. Chapman, L. M.; Beck, J. C.; Wu, L.; Reisman, S. E. "Enantioselective Total Synthesis of (+)-Psiguadial B." *J. Am. Chem. Soc.* **2016**, *138*, 9803.
36. Chuang, K. V.; Xu, C.; Reisman, S. E. "15-Step Synthesis of Ryanodol." *Science*, **2016**, *353*, 912.
35. Chuang, K. V.; Kieffer, M. E.; Reisman, S. E. "A Mild and General Larock Indolization Protocol for the Synthesis of Unnatural Tryptophans." *Org. Lett.* **2016**, *18*, 4750.
34. Daniels, B. D.; Ni, J.; Reisman, S. E. "Synthesis of Enantioenriched Indolines by a Conjugate Addition/Asymmetric Protonation/Aza-Prins Cascade Reaction." *Angew. Chem. Int. Ed.* **2016**, *55*, 3398.
33. Jang, K.-S.; Nani, R. R.; Kalli, A.; Levin, S.; Müller, A.; Hess, S.; Reisman, S. E.; Clemons, W. M. Jr. "A Cationic Cysteine-Hydrazide as an Enrichment Tool for the Mass Spectrometric Characterization of Bacterial Free Oligosaccharides." *Anal. Bioanal. Chem.* **2015**, *407*, 6181.
32. Kadunce, N. T.; Reisman, S. E. "Nickel-Catalyzed Asymmetric Reductive Cross-Coupling between Heteroaryl Iodides and α -Chloronitriles." *J. Am. Chem. Soc.* **2015**, *137*, 10480.
31. Cherney, A. H.; Kadunce, N. T.; Reisman, S. E. "Enantioselective and Enantiospecific Transition Metal-Catalyzed Cross-Coupling Reactions of Organometallic Reagents to Form C-C Bonds." *Chem. Rev.* **2015**, *115*, 9587.
30. Cherney, A. H.; Reisman, S. E. "Nickel-Catalyzed Asymmetric Reductive Cross-Coupling Between Vinyl and Benzyl Electrophiles." *J. Am. Chem. Soc.* **2014**, *136*, 14365.
29. Yeoman, J. T. S.; Cha, J. Y.; Mak, V. W.; Reisman, S. E. "A Unified Strategy for the Synthesis of (-)-Maoecrystal Z, (-)-Trichorabdal A, and (-)-Longikaurin E." *Tetrahedron*, **2014**, *70*, 4070.
28. Wang, H.; Reisman, S. E. "Enantioselective Total Synthesis of (-)-Lansai B and (+)-Nocardioazines A and B." *Angew. Chem. Int. Ed.* **2014**, *53*, 6206.
27. Hsiao, E. Y.; McBride, S. W.; Hsien, S.; Sharon, G.; Hyde, E. R.; McCue, T.; Codelli, J. A.; Chow, J.; Reisman, S. E.; Petrosino, J. F.; Patterson, P. H.; Mazmanian, S. K. "Microbiota Modulate Behavioral and Physiological Abnormalities Associated with Neurodevelopmental Disorders." *Cell* **2013**, *155*, 1451.
26. Repka, L. M.; Reisman, S. E. "Recent Developments in the Catalytic, Asymmetric Construction of Pyrroloindolines Bearing All-Carbon Quaternary Stereocenters." *J. Org. Chem.* **2013**, *78*, 12314.
25. Cherney, A. H.; Reisman, S. E. "Pd-Catalyzed Fukuyama Cross-Coupling of Secondary Organozinc Reagents for the Direct Synthesis of Unsymmetrical Ketones." *Tetrahedron* **2013**, *70*, 3259. DOI: 10.1016/j.tet.2013.11.104.
24. Yeoman, J. T. S.; Mak, V. W.; Reisman, S. E. "A Unified Strategy to *ent*-Kauranoid Natural Products: Total Syntheses of (-)-Trichorabdal A and (-)-Longikaurin E." *J. Am. Chem. Soc.* **2013**, *135*, 11764.
23. Cherney, A. H.; Kadunce, N. T.; Reisman, S. E. "Catalytic Asymmetric Reductive Acyl Cross-Coupling: Synthesis of Enantioenriched Acyclic α,α -Disubstituted Ketones." *J. Am. Chem. Soc.* **2013**, *135*, 7442.
22. Kieffer, M. E.; Chuang, K. V.; Reisman, S. E. "Copper-Catalyzed Diastereoselective Arylation of Tryptophan Derivatives: Total Synthesis of (+)-Naseseazines A and B." *J. Am. Chem. Soc.* **2013**, *135*, 5557.
21. Ni, J.; Wang, H.; Reisman, S. E. "Direct, Enantioselective Synthesis of Pyrroloindolines and Indolines From Simple Indole Derivatives." *Tetrahedron*, **2013**, 5622.

20. Nani, R. R.; Reisman, S. E. "α-Diazo-β-Ketonitriles: Uniquely Reactive Substrates for Arene and Alkene Cyclopropanation." *J. Am. Chem. Soc.* **2013**, *135*, 7304.
19. Lim, A. D.; Codelli, J. A.; Reisman, S. E. "Catalytic Asymmetric Synthesis of Highly Substituted Pyrrolizidines." *Chem. Sci.* **2012**, *4*, 650.
18. Kieffer, M. E.; Chuang, K. V.; Reisman, S. E. "A Copper-Catalyzed Arylation of Tryptamines for the Direct Synthesis of Aryl Pyrroloindolines." *Chem. Sci.* **2012**, *3*, 3170.
17. Navarro, R. N.; Reisman, S. E. "Rapid Construction of the Aza-Propellane Core of Acutumine via a Photochemical [2+2] Cycloaddition Reaction." *Org. Lett.* **2012**, *14*, 4354.
16. Kieffer, M. E.; Repka, L. M.; Reisman, S. E. "Enantioselective Synthesis of Tryptophan Derivatives by a Tandem Friedel-Crafts Conjugate Addition/Asymmetric Protonation Reaction." *J. Am. Chem. Soc.* **2012**, *134*, 5131.
15. Codelli, J. A.; Puchlopek, A. L. A.; Reisman, S. E. "Enantioselective Total Synthesis of (-)-Acetylaranotin, A Dihydrooxepine Epidithiodiketopiperazine." *J. Am. Chem. Soc.* **2012**, *134*, 1930.
14. Cha, J. Y.; Yeoman, J. T. S.; Reisman, S. E. "A Concise Total Synthesis of (-)-Maoecrystal Z." *J. Am. Chem. Soc.* **2011**, *133*, 14964.
13. Chuang, K. V.; Navarro, R. N., Reisman, S. E. "Short, Enantioselective Total Syntheses of (-)-8-Demethoxyrunanine and (-)-Cepharatines A, C and D." *Angew. Chem., Int. Ed.* **2011**, *50*, 9447.
12. Reisman, S. E.; Nani, R. R.; Levin, S. "Buchner and Beyond: Arene Cyclopropanation in the Service of Natural Product Total Synthesis." *Synlett*, **2011**, 2437.
11. Chuang, K. V.; Navarro, R. N., Reisman, S. E. "Benzoquinone-Derived Sulfinyl Imines as Versatile Intermediates for Alkaloid Synthesis: Total Synthesis of (-)-3-Demethoxyerythratidinone." *Chem. Sci.* **2011**, *2*, 1086.
10. Levin, S.; Nani, R. N.; Reisman, S. E. "Enantioselective Total Synthesis of (+)-Salvileucalin B." *J. Am. Chem. Soc.* **2011**, *133*, 774.
9. Repka, L. M.; Ni, J.; Reisman, S. E. "Catalytic Asymmetric Synthesis of Pyrroloindolines by a Formal [3+2] Cycloaddition Reaction." *J. Am. Chem. Soc.* **2010**, *132*, 14418.
8. Levin, S.; Nani, R.N.; Reisman, S.E. "Rapid Assembly of the Salvileucalin B Norcaradiene Core." *Org. Lett.* **2010**, *12*, 780.

Undergraduate, Graduate and Postdoctoral Research Contributions:

7. Freeman, D. B.; Holubec, A. A.; Weiss, M. W.; Dixon, J. A.; Kakefuda, A.; Ohtsuka, M.; Inoue, M.; Vaswani, R. G.; Ohki, H.; Doan, B. D.; Reisman, S. E.; Stoltz, B. M.; Day, J. J.; Tao, R. N.; Dieterich, N. A.; Wood, J. L. "Welwitindolinone C Synthetic Studies. Construction of the Welwitindolinone Carbon Skeleton Via a Transannular Nitrene Cycloaddition." *Tetrahedron*, **2010**, *66*, 6647.
6. Reisman, S. E.; Doyle, A. G.; Jacobsen, E. N. "Enantioselective Thiourea-Catalyzed Additions to Oxocarbenium Ions." *J. Am. Chem. Soc.* **2008**, *130*, 7198.
5. Reisman, S. E.; Ready, J. M.; Weiss, M. M.; Hasuoka, A.; Tamaki, K.; Ovaska, T. V.; Wood, J. L. "Evolution of a Synthetic Strategy: Total Synthesis of (±)-Welwitindolinone A Isonitrile." *J. Am. Chem. Soc.* **2008**, *130*, 2087.
4. Reisman, S. E.; Ready, J. M.; Hasuoka, A.; Smith, C. J.; Wood, J. L. "Total Synthesis of (±)-Welwitindolinone A Isonitrile." *J. Am. Chem. Soc.* **2006**, *128*, 1448.
3. Ready, J. M.; Reisman, S. E.; Hirata, M.; Weiss, M. M.; Tamaki, K.; Ovaska, T. V.; Wood, J. L. "A Mild and Efficient Synthesis of Oxindoles: Progress toward the Synthesis of Welwitindolinone A Isonitrile." *Angew. Chem., Int. Ed.* **2004**, *43*, 1270.
2. Kumar, J. S. R.; O'Sullivan, M. F.; Reisman, S. E.; Hulford, C. A.; Ovaska, T. V. "Facile Approach to the Bicyclo[5.3.0]Decane Ring System; Efficient Synthesis of (±)-7-epi-β-Bulnesene." *Tetrahedron Lett.* **2002**, *43*, 1939.
1. Ovaska, T. V.; Reisman, S. E.; Flynn, M. A. *Org. Lett.* **2001**, *3*, 1, 115. "Facile Entry to the Tetracyclic 5-7-6-3 Tiglliane Ring System."

Essays and Commentaries:

Dibrell, S. E.; Holman, K. R.; Reisman, S. E. "Plugging the Leak: Empowering Women in Organic Chemistry." *Angew. Chem. Int. Ed.* **2022**, 61, e202111765, DOI: 10.1002/anie.202111765.

Reisman, S. E.; Sarpong, R.; Sigman, M. S.; Yoon, T. P. "Organic Chemistry: A Call to Action for Diversity and Inclusion." *J. Org. Chem.* **2020**, 85, 10287. Published simultaneously in *ACS Cent. Sci.*, *Org. Lett.*, *Organomet.*

Codelli, J. A., Reisman, S. E. "Pactamycin Made Easy." *Science*, **2013**, 340, 152.

Yeoman, J. T. S., Reisman, S. E. "Organic Chemistry: Single Molecules Put a Ring on It." *Nature*, **2012**, 490, 179.

Reisman, S. E. "Medicinal Chemistry: New Lead For Pain Treatment." *Nature*, **2011**, 473, 458.