

Curriculum Vitae: Michael J. Krische, Professor of Chemistry
University of Texas at Austin (July 2026), H-Index = 88/102; Web of Science/Google Scholar

- A. Contact Information**
B. Professional Preparation/Positions
C. Selected Honors and Awards

- D. Scientific Publications**
E. Professional Service
F. Research Presentations

A. Contact Information

Prof. Michael J. Krische, Ph.D. (Born: 9/16/66)
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University of Texas at Austin
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B. Professional Preparation/Positions

Humboldt Senior Research Fellow, Freiburg University
(2009-2010), Freie Universität Berlin (2015)

NIH Post-Doc., Université Louis Pasteur (1/97-8/99)
Advisor: Professor Jean-Marie Lehn

Robert A. Welch Chair in Science
University of Texas at Austin (9/07-Present)

Ph.D. Chemistry, Stanford University (9/90-12/96)
Advisor: Professor Barry M. Trost

Professor of Chemistry (*Direct Promotion from Asst. Prof*)
University of Texas at Austin (9/04-Present)

Fulbright Fellow, Helsinki University, (9/89-6/90)
Advisor: Professor Ari M. P. Koskinen

Assistant Professor of Chemistry
University of Texas at Austin (9/99-8/03)

B.S. Chemistry, Univ. of California at Berkeley
Advisor: Professor Henry Rapoport (8/86-8/89)

C. Selected Honors and Awards

Akira Suzuki Award (2026)

Presidential Green Chemistry Challenge Award (2007)

Palladium Global Science Award (2025)

Dowpharma Prize - Creativity in Chiral Chemistry (2007)

Yamada-Koga Prize (2025)

ACS Elias J. Corey Award (2007)

Israeli Chemical Society, Honorary Member (2022)

Solvias Ligand Prize (2006)

ACS Award for Creative Work in Synthetic Organic Chemistry (2020)

The Society of Synthetic Chemistry, Japan Lectureship on Organic Synthesis (2005)

Korean Society of Organic Chemistry Lectureship Award (2019)

Johnson & Johnson Focused Giving Award (2005)

Ta-Shue Chou Lectureship Award, Institute of Chemistry, Academia Sinica, Taiwan (2019)

Camille Dreyfus Teacher-Scholar Award (2003)

Fellow, American Association for the Advancement of Science (AAAS) (2017)

Alfred P. Sloan Research Fellow (2003)

Royal Society of Chemistry, Pedler Award (2015)

Eli Lilly Granteeship for Untenured Faculty (2002)

Eun Lee Lectureship Award, Korea (2015)

Frasch Foundation Award in Chemistry (2002)

Japanese Society for the Promotion of Science (JSPS) Research Fellowship (2013)

Research Corporation, Cottrell Scholar Award (2002)

Fellow of the Royal Society of Chemistry (2013)

UT Austin, Teaching Excellence Award (2002)

ACS Cope Scholar Award (2013)

Thieme Chemistry Journal Award (2001)

GlaxoSmithKline Scholar Award (2012)

National Science Foundation, CAREER Award (2000)

Mukaiyama Award, Society of Synthetic Organic Chemistry, Japan (SSOCJ), 2010

Maître de Conference, Collège de France, 2/99 - 7/99

Humboldt Foundation Senior Research Award (2009-2011)

National Institute of Health, Post-Doctoral Fellow, Université Louis Pasteur, 1/97-1/99

Freiburg Institute for Advanced Studies (FRIAS) External Senior Fellow, 1/09- 12/11

Veatch Graduate Fellowship, Stanford University, 1/95 - 1/96

Tetrahedron Young Investigator Award (2009)

Sigma Xi Grantee/Visiting Scholar, Surrey University, UK, 6/90 - 8/90

Novartis Lectureship Award (2008)

Fulbright Fellow, Helsinki University, Finland 9/89 - 5/90

Presidents Undergraduate Fellow, UC Berkeley, 9/87 - 6/88

For ***Named/Endowed or Plenary Lectures***, Please See "Research Presentations"

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- 341.** "Nitriles as N-H Aldimines in Alcohol-Mediated Allene Reductive Coupling: α -Tertiary- β -Quaternary Primary Amines via Ruthenium Catalysis," Nguyen, T.-Q.; Meares, P. W.; Ngo, V.; Lee, S.; Krische, M. J. **2026**, Manuscript in Preparation.
- 340.** "C-C Bond Formation via Addition or Redistribution of Hydrogen: Chemical Synthesis Beyond Premetalated Reagents or Metallic Reductants," Höthker, S.; Krische, M. J. **2026**, Submitted for Publication.
- 339.** "Nitrile-Acrylate Reductive Coupling Mediated by 2-Propanol: Enantioenriched β -Amino Acids via Ruthenium Catalysis," Höthker, S.; Hayter, C. E.; Shen, W.; Krische, M. J. *Angew. Chem. Int. Ed.* **2026**, *65*, Accepted for Publication.
- 338.** "Ruthenium-Catalyzed Conjugation of Phenyl and Pyridyl Bioisosteres to Azines and Azoles via Dearomative Addition-Hydrogen Auto-Transfer," Teoh, Y. S.; Lee, S.; Meares, P. W.; McManus, E. M.; Or, K.-L.; Gevirtzman, V. Mykhailiuk, P. K.; Krische, M. J. *Org. Lett.* **2026**, *28*, 10015–10021.
- 337.** "Aldehyde (α -Methoxy)Allylation via 2-Propanol Mediated Reductive Coupling: Halide-Dependent Regio- and Enantioselection from 1 of 24 Fluxional Diastereomeric-at-Ruthenium-SEGPHOS Complexes," Saldares, C.; Briceno, E. S.; Pellegrini, A.; Grimme, S.; Krische, M. J. *ACS Catal.* **2026**, *16*, 15048–15056.
- 336.** "Quaternary *N*-Heterobenzylic Carbon Centers via Allene-Mediated C-H Functionalization of Azines/Azoles: Ruthenium-Catalyzed Dearomative Addition-Hydrogen Auto-Transfer," Bowers, N. K.; Müller, N.; Gonzalez, B. I.; Ngo, V.; Teoh, Y. S.; Claggett, T. A.; Krische, M. J. *J. Am. Chem. Soc.* **2026**, *148*, 27925–27933.
- 335.** "A Ruthenium-(Ph-BPE) Catalyst for Asymmetric Alkynylation of Fluoral: Enantioselection from 1 of 12 Fluxional Stereogenic-at-Ruthenium Complexes," Shen, W.; Höthker, S.; Hayter, C. E.; Bowers, N. K.; Pellegrini, A.; Grimme, S.; Krische, M. J. *Angew. Chem. Int. Ed.* **2026**, *65*, e9580914. [NIHMSID: 2186460]
- 334.** "Metal-Catalyzed Reductive Coupling of Aryl Halides beyond Premetalated Reagents or Metallic Reductants: Biaryl Formation," Cho, Y.; Chang, Y.-H.; Shen, W.; Krische, M. J. *Chem. Rev.* **2026**, *126*, 6497–6525. [NIHMSID: 2186458]
- 333.** "Enantioselective Carbonyl Crotylation of Alcohol Proelectrophiles via Ruthenium-Catalyzed Hydrogen Auto-Transfer: Innovation Inspired by Polyketide Total Synthesis," Meares, P. W.; Santana, C. G.; Krische, M. J. *ACS Catal.* **2026**, *16*, 6122–6129. [NIHMSID: 2186457]
- 332.** "Total Synthesis of *iso*-Gladiolin Methyl Ester (Lagriene Methyl Ester) via Catalytic Asymmetric C-C Coupling of Alcohols," Verboom, K. L.; Cho, Y.; Duncan, J. A.; Zhang, Y.; Alkhalaf, L. M.; Challis, G. L.; Krische, M. J. *J. Am. Chem. Soc.* **2026**, *148*, 9040–9048. [NIHMSID:2186454]
- 331.** "Enantioselective Butadiene-Mediated Aldehyde Crotylation of Alcohol Proelectrophiles: $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$ as Precatalyst," Santana, C. G.; Meares, P. W.; Pfaffinger, D. E.; Krische, M. J. *Org. Lett.* **2026**, *28*, 541–545. [NIHMSID: 2134172]
- 330.** "Oxidative Alkynylation of Alcohols or Aldehydes Using $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$: Ynones Made Easy," Hayter, C. E.; Höthker, S.; Shen, W.; Krische, M. J. *Org. Lett.* **2026**, *28*, 424–427. [NIHMSID: 2134174]
- 329.** "Enantioselective Alkyne-Mediated Aldehyde Allylation of Alcohol Proelectrophiles Using $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$ as Precatalyst," Evarts, M. M.; Nguyen, T.-Q. N.; Krische, M. J. *Org. Lett.* **2026**, *28*, 294–298. [NIHMSID: 2134183]

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- 328.** "Enantioselective *N*-Heteroaryl C-H Functionalization for Piperidine-Azine Conjugation: Alkynes as Allylmetal Pronucleophiles in Dearomative Addition-Hydrogen Auto-Transfer," Lee, S.; Teoh, Y. S.; Xie, P.-P.; McManus, E. M.; Gonzalez, B. I.; Claggett, T. A.; Liu, P.; Krische, M. J. *J. Am. Chem. Soc.* **2025**, *147*, 41946–41955.
- 327.** "Hydrogen-Mediated Reductive Cross-Coupling of Aryl Iodides with Activated Aryl and Heteroaryl Bromides," Shen, W.; Chang, Y.-H.; Gonzalez, B. I.; Looby, A. P.; Dotson, J. J.; White, N. A.; Carrow, B. P.; Krische, M. J. *J. Am. Chem. Soc.* **2025**, *147*, 41130–41137. [NIHMSID: 2121466]

326. “*anti*-Diastereo- and Enantioselective Ruthenium-Catalyzed C-C Coupling-Oxidative Lactonization of 1,4-Butanediol: Alkynes as Allylmetal Pronucleophiles,” Santana, C. G.; Meares, P. W.; Dubey, Z. J.; Krische, M. J. *J. Am. Chem. Soc.* **2025**, *147*, 28370–28377. [PMCID: PMC12313187]

325. “Formate-Mediated C-C Coupling of Aryl/Vinyl Halides and Triflates: Carbonyl Arylation and Reductive Cross-Coupling,” Chang, Y.-H.; Cho, Y.; Shen, W.; Krische, M. J. *ACS Catal.* **2025**, *15*, 8274–8283. [PMCID: PMC12366644]

324. “Formal Synthesis of Fostriecin via Asymmetric Alcohol-Mediated Carbonyl Allylation,” Pfaffinger, D. E.; Krische, M. J. *Org. Lett.* **2025**, *27*, 4501–4506. [PMCID: PMC12288143]

323. “Aryl Halide Cross-Coupling via Formate-Mediated Transfer Hydrogenation,” Cho, Y.; Chang, Y.-H.; Quirion, K. P.; Strong, Z. H.; Dubey, Z. J.; Nguyen, N.; Lee, S.; Taylor, N. S.; Hoover, J. M.; White, N. A.; Liu, P.; Krische, M. J. *Nat. Chem.* **2025**, *17*, 710–718. [PMCID: PMC12308758]

322. “Dearomative Addition-Hydrogen Auto-Transfer for Branch-Selective *N*-Heteroaryl C-H Functionalization via Ruthenium-Catalyzed C-C Couplings of Diene Pronucleophiles,” Shezaf, J. Z.; Lee, S.; Teoh, Y. S.; Xie, P.-P.; Strong, Z. H.; Wu, J.; Liu, P.; Krische, M. J. *J. Am. Chem. Soc.* **2025**, *147*, 2021–2028.

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321. “Catalytic Enantioselective C-C Coupling of Alcohols for Polyketide Total Synthesis beyond Chiral Auxiliaries and Premetalated Reagents,” Wu, J.; Verboom, K. L.; Krische, M. J. *Chem. Rev.* **2024**, *124*, 13715–13735. [PMCID: PMC11826517]

320. “Total Synthesis of the Phenylanthracenoid Type II Polyketide Antibiotic Formicamycin H via Regioselective Ruthenium-Catalyzed Hydrogen Auto-Transfer [4 + 2] Cycloaddition,” Hu, G.; Doerksen, R. S.; Ambler, B. R.; Krische, M. J. *J. Am. Chem. Soc.* **2024**, *146*, 26351–26359. [PMCID: PMC11470536]

319. “Formate-Mediated Reductive Cross-Coupling of Vinyl Halides with Aryl Iodides: *cine*-Substitution via Palladium(I)-Catalysis,” Santana, C. G.; Teoh, Y. S.; Evarts, M. M.; Shezaf, J. Z.; Krische, M. J. *Org. Lett.* **2024**, *26*, 7055–7059. [PMCID: PMC11445720]

318. “ β -Hydroxy Propionates as Malonic Semialdehyde Proelectrophiles in Enantioselective Butadiene-Mediated Crotylation: Total Synthesis of Octalactins A and B,” Wu, J.; Krische, M. J. *Org. Lett.* **2024**, *26*, 4830–4834. [PMCID: PMC11444018]

317. “Leveraging the Stereochemical Complexity of Octahedral Diastereomeric-at-Metal Catalysts to Unlock Regio- Diastereo and Enantioselectivity in Alcohol-Mediated C-C Couplings via Hydrogen Transfer,” Shezaf, J. Z.; Santana, C. G.; Ortiz, E.; Meyer, C. C.; Liu, P.; Sakata, K.; Huang, K.-W.; Krische, M. J. *J. Am. Chem. Soc.* **2024**, *146*, 7905–7914. [PMCID: PMC11446212]

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316. “Palladium(I)-Iodide-Catalyzed Deoxygenative Heck Reaction of Vinyl Triflates: A Formate-Mediated Cross-Electrophile Reductive Coupling with *cine*-Substitution,” Chang, Y.-H.; Shen, W.; Shezaf, J. Z.; Ortiz, E.; Krische, M. J. *J. Am. Chem. Soc.* **2023**, *145*, 22890–22895. [PMCID: PMC10615887]

315. “Synthesis of the C30-C41 Side Chain of (Proposed) Neaumycin B: A Contiguous Stereoheptet,” Lee, D. S.; Maejima, S.; Krische, M. J. *Org. Lett.* **2023**, *25*, 6763–6766. [PMCID: PMC10614081]

314. “Chiral-at-Ruthenium-SEGPHOS Catalysts Display Diastereomer-Dependent Regioselectivity: Enantioselective Isoprene-Mediated Carbonyl *tert*-Prenylation via Halide Counterion Effects,” Shezaf, J. Z.; Santana, C. G.; Saldares, C.; Briceno, E. S.; Sakata, K.; Krische, M. J. *J. Am. Chem. Soc.* **2023**, *145*, 18676–18683. [PMCID: PMC10530498]

313. “Intermolecular Metal-Catalyzed C–C Coupling of Unactivated Alcohols or Aldehydes for Convergent Ketone Construction beyond Premetalated Reagents,” Spinello, B. J.; Ortiz, E.; Evarts, M. M.; Strong, Z. H.; Krische, M. J. *ACS Catal.* **2023**, *13*, 10976–10987. [NIHMSID:1925802]

312. “Oxetane-, Azetidine- and Bicyclopentane-Bearing *N*-Heterocycles from Ynones: Scaffold Diversification via Ruthenium-Catalyzed Oxidative Alkynylation,” Evarts, M. M.; Strong, Z. H.; Krische, M. J. *Org. Lett.* **2023**, *25*, 5907–5910. [PMCID: PMC10445484]

- 311.** "Enantioselective Transfer Hydrogenative Cycloaddition Unlocks the Total Synthesis of SF2446 B3: An Aglycone of the Arenimycin and SF2446 Type II Polyketide Antibiotics," Huynh, N. O.; Hodík, T.; Krische, M. J. *J. Am. Chem. Soc.* **2023**, *145*, 17461–17467. [PMCID: PMC10443208]
- 310.** "O-Acetyl 1,3-Propanediol as an Acrolein Proelectrophile in Enantioselective Iridium-Catalyzed Carbonyl Allylation," Verboom, K. L.; Meyer, C. C.; Evarts, M. M.; Jung, W.-O.; Krische, M. J. *Org. Lett.* **2023**, *25*, 3659–3663. [PMCID: PMC10425987]
- 309.** "Ruthenium-Catalyzed C-C Coupling of Terminal Alkynes with Primary Alcohols or Aldehydes: α,β -Acetylenic Ketones (Ynones) via Oxidative Alkynylation," Ortiz, E.; Evarts, M. M.; Strong, Z. H.; Shezaf, J. Z.; Krische, M. J. *Angew. Chem. Int. Ed.* **2023**, *62*, e202303345. [PMCID: PMC10213147]
- 308.** "Dual Ruthenium-Catalyzed Alkene Isomerization-Hydrogen Auto-Transfer Unlocks Skipped Dienes as Pronucleophiles for Enantioselective Carbonyl Allylation," Dubey, Z. J.; Shen, W.; Little, J. A.; Krische, M. J. *J. Am. Chem. Soc.* **2023**, *145*, 8576–8582. [PMCID: PMC10551046]
- 307.** "Allyl Alcohol as an Acrolein Equivalent in Enantioselective C-C Coupling: Total Synthesis of Amphidinolides R, J, and S," Meyer, C. C.; Verboom, K. L.; Evarts, M. M.; Jung, W.-O.; Krische, M. J. *J. Am. Chem. Soc.* **2023**, *145*, 8242–8247. [PMCID: 10101927]
- 306.** "Carbonyl Allylation and Crotylation: Historical Perspective, Relevance to Polyketide Synthesis and Evolution of Enantioselective Ruthenium-Catalyzed Hydrogen Auto-Transfer Processes," Ortiz, E.; Saldares, C.; Wu, J.; Cho, Y.; Santana, C. G.; Krische, M. J. *Synthesis* **2023**, 1487–1496. [PMCID: PMC10569400]
- 305.** "Iridium-, Ruthenium- and Nickel-Catalyzed C-C Couplings of Methanol, Formaldehyde and Ethanol with π -Unsaturated Pronucleophiles via Hydrogen Transfer," Meyer, C. C.; Krische, M. J. *J. Org. Chem.* **2023**, *88*, 4965–4974. [PMCID: 10121765]
- 304.** "Asymmetric Ruthenium-Catalyzed Carbonyl Allylations by Gaseous Allene via Hydrogen Auto-Transfer: 1^o vs 2^o Alcohol Dehydrogenation for Streamlined Polyketide Construction," Saldares, C.; Ortiz, E.; Santana, C. G.; Spinello, B. J. Krische, M. J. *ACS Catal.* **2023**, *13*, 1662–1668. [NIHMSID:1888690]

<< 2022 >>

- 303.** "Historical Perspective on Ruthenium-Catalyzed Hydrogen Transfer and Survey of Enantioselective Hydrogen Auto-Transfer Processes for the Conversion of Lower Alcohols to Higher Alcohols," Ortiz, E.; Shezaf, J. Z.; Shen, W.; Krische, M. J. *Chem. Sci.* **2022**, *13*, 12625–12633. [PMCID: PMC9645367]
- 302.** "Ruthenium-Catalyzed Butadiene-Mediated Crotylation and Oxazaborolidine-Catalyzed Vinylogous Mukaiyama Aldol Reaction for The Synthesis of C1-C17 and C23-C35 of Neomycin B," Liang, X.; Yoo, M.; Schempp, T. Maejima, S.; Krische, M. J. *Angew. Chem. Int. Ed.* **2022**, *61*, e202214786. [PMCID: 9772151]
- 301.** "Stereo- and Site-Selective Crotylation of Alcohol Proelectrophiles via Ruthenium-Catalyzed Hydrogen Auto-Transfer Mediated by Methylallene and Butadiene," Ortiz, E.; Spinello, B. J.; Cho, Y.; Wu, J.; Krische, M. J. *Angew. Chem. Int. Ed.* **2022**, *61*, e202212814. [PMCID: 9712268]
- 300.** "Chiral Amines via Enantioselective π -Allyliridium-C,O-Benzoate-Catalyzed Allylic Alkylation: Student Training via Industrial-Academic Collaboration," Stivala, C. E.; Zbieg, J. R.; Liu, P.; Krische, M. J. *Acc. Chem. Res.* **2022**, *55*, 2138–2147. [PMCID:9608351]
- 299.** "Enantioselective Metal-Catalyzed Reductive Coupling of Alkynes with Carbonyl Compounds and Imines: Convergent Construction of Allylic Alcohols and Amines," Ortiz, E.; Shezaf, J. Z.; Chang, Y.-H.; Krische, M. J. *ACS Catal.* **2022**, *12*, 8164–8174. [NIHMSID: 1841659]
- 298.** "Stereo- and Site-Selective Conversion of Primary Alcohols to Allylic Alcohols via Ruthenium-Catalyzed Hydrogen Auto-Transfer Mediated by 2-Butyne," Ortiz, E.; Chang, Y.-H.; Shezaf, J. Z.; Shen, W.; Krische, M. J. *J. Am. Chem. Soc.* **2022**, *144*, 8861–8869. [PMCID: PMC9608395]
- 297.** "Chiral α -Stereogenic Oxetanols and Azetidinols via Alcohol-Mediated Reductive Coupling of Allylic Acetates: Enantiotopic π -Facial Selection in Symmetric Ketone Addition," Stafford, N. P.; Cheng, M. J.; Dinh, D. N.; Verboom, K. L.; Krische, M. J. *ACS Catal.* **2022**, *12*, 6172–6179. [NIHMSID: 1841660]

296. “Kinetic, ESI-CID-MS and Computational Studies of π -Allyliridium *C,O*-Benzoate-Catalyzed Allylic Amination: Understanding the Effect of Cesium Ion,” Jung, W.-O.; Mai, B. K.; Yoo, M.; Shields, W. J.; Zbieg, J. R.; Stivala, C. E.; Liu, P.; Krische, M. J. *ACS Catal.* **2022**, *12*, 3660–3668. [PMCID: PMC9456326]

295. “Enantioselective Iridium-Catalyzed Reductive Coupling of Dienes with Oxetanones and N-Acyl-Azetidinones Mediated by 2-Propanol,” Meyer, C. C.; Dubey, Z. J.; Krische, M. J. *Angew. Chem. Int. Ed.* **2022**, *61*, e202115959. [PMCID: PMC8940717]

294. “Total Synthesis of The Acetyl CoA Carboxylase Inhibitor Soraphen A: Asymmetric Tsuji Reduction Enables Successive Olefin Metathesis,” Schempp, T. T.; Krische, M. J. *J. Am. Chem. Soc.* **2022**, *144*, 1016–1022. [NIHMSID: 1771725]

293. “Regio- and Enantioselective Iridium-Catalyzed Amination of Alkyl-Substituted Allylic Acetates with Secondary Amines,” Jung, W.-O.; Yoo, M.; Migliozi, M. M.; Zbieg, J. R.; Stivala, C. E.; Krische, M. J. *Org. Lett.* **2022**, *24*, 441–445. [PMCID: PMC8764998]

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292. “Understanding Halide Counterion Effects in Enantioselective Ruthenium-Catalyzed Carbonyl (α -Aryl)allylation: Alkynes as Latent Allenes and Trifluoroethanol-Enhanced Turnover in The Conversion of Ethanol to Higher Alcohols *via* Hydrogen Auto-Transfer,” Ortiz, E.; Shezaf, J. Z.; Chang, Y.-H.; Gonçalves, T. P.; Huang, K.-W.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 16709–16717. [PMCID: PMC8749865]

291. “Chemical Tuning of Exciton versus Charge-Transfer Excited States in Conformationally Restricted Arylene Cages,” Lewis, T. N.; Tonnelé, C.; Shuler, W. G.; Kasun, Z. A.; Sato, H.; Berges, A. J.; Rodriguez, J. B.; Krische, M. J.; Casanova, D.; Bardeen, C. J. *J. Am. Chem. Soc.* **2021**, *143*, 18548–18558.

290. “Conversion of Primary Alcohols and Butadiene to Branched Ketones via Merged Transfer Hydrogenative Carbonyl Addition-Redox Isomerization Catalyzed by Rhodium,” Spinello, B. J.; Wu, J.; Cho, Y.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 13507–13512. [PMCID: PMC8739284]

289. “Allenenes and Dienes as Chiral Allylmetal Pronucleophiles in Catalytic Enantioselective C=X Addition: Historical Perspective and State-of-The-Art Survey,” Xiang, M.; Pfaffinger, D. E.; Krische, M. J. *Chem. Eur. J.* **2021**, *27*, 13107–13116. [PMCID: PMC8446312]

288. “Total Synthesis of Leiodermatolide A *via* Transfer Hydrogenative Allylation, Crotylation and Propargylation: Polyketide Construction beyond Discrete Allyl- or Allenylmetal Reagents,” Siu, Y.-M.; Roane, J.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 10590–10595. [PMCID: PMC8529965]

287. “Enantioselective Iridium-Catalyzed Allylation of Nitroalkanes: Entry to β -Stereogenic α -Quaternary Primary Amines,” Jung, W.-O.; Mai, B. K.; Spinello, B. J.; Dubey, Z.; Kim, S. W.; Stivala, C. E.; Zbieg, J. R.; Liu, P.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 9343–9349. [PMCID: 8284932]

286. “Enantioselective Ruthenium-BINAP-Catalyzed Carbonyl Reductive Coupling of Alkoxyallenes: Convergent Construction of *syn-sec,tert*-Diols *via* (Z)- σ -Allylmetal Intermediates,” Xiang, M.; Pfaffinger, D. E.; Ortiz, E.; Brito, G. A.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 8849–8854. [PMCID:8299538]

285. “Total Synthesis of the Spliceosome Modulator Pladienolide B *via* Asymmetric Alcohol-Mediated *syn*- and *anti*-Diastereoselective Carbonyl Crotylation,” Yoo, M.; Krische, M. J. *Angew. Chem. Int. Ed.* **2021**, *60*, 13923–13928. [PMCID:8190871]

284. “From Hydrogenation to Transfer Hydrogenation to Hydrogen Auto-Transfer in Enantioselective Metal-Catalyzed Carbonyl Reductive Coupling: Past, Present and Future,” Santana, C. G.; Krische, M. J. *ACS Catal.* **2021**, *11*, 5572–5585. [PMCID: 8302072]

283. “Ethanol: Unlocking an Abundant Renewable C2-Feedstock for Catalytic Enantioselective C-C Coupling,” Meyer, C. C.; Stafford, N. P.; Cheng, M. J.; Krische, M. J. *Angew. Chem. Int. Ed.* **2021**, *60*, 10542–10546. [PMCID: 8085048]

282. “Ruthenium-Catalyzed Cycloaddition to Form Five-, Six-, and Seven-Membered Rings,” Doerksen, R. S.; Hodík, T.; Hu, G.; Huynh, N. O.; Shuler, W. G.; Krische, M. J. *Chem. Rev.* **2021**, *121*, 4045–4083. [PMCID: 8284937]

281. "Diastereo- and Enantioselective Ruthenium-Catalyzed C-C Coupling of 1-Arylpropynes and Alcohols: Alkynes as Chiral Allylmetal Precursors in Carbonyl anti-(α -Aryl)allylation," Xiang, M.; Ghosh, A.; Krische, M. J. *J. Am. Chem. Soc.* **2021**, *143*, 2838–2845. [PMCID: 8284912]

280. "Formate-Mediated Cross-Electrophile Reductive Coupling of Aryl Iodides and Bromopyridines," Schwartz, L. A.; Spielmann, K.; Swyka, R. A.; Xiang, M.; Krische, M. J. *Isr. J. Chem.* **2020**, *60*, 298–301. [PMCID: 8323530]

279. "Synthesis and Photophysical Properties of Soluble *N*-Doped Rubicenes via Ruthenium-Catalyzed Transfer Hydrogenative Benzannulation," Shuler, W. G.; Parvathaneni, S. P.; Rodriguez, J. B.; Lewis, T. N.; Berges, A. J.; Bardeen, C. J.; Krische, M. J. *Chem. Eur. J.* **2021**, *27*, 4898–4902.

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20. "The Covalent Casting of One-Dimensional Hydrogen Bonding Motifs: Toward Oligomers and Polymers of Predefined Topography," Archer, E. A.; Sochia, A. E.; Krische, M. J. *Chem. Eur. J.* **2001**, *7*, 2059.

19. "Hydrogen Bonding in Noncovalent Synthesis: Selectivity and the Directed Organization of Molecular Strands," Archer, E. A.; Gong, H.; Krische, M. J. *Tetrahedron* **2001**, *57*, 1139.

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18. "Nanostructured Polymer Duplexes via the Covalent Casting of 1-Dimensional H-Bonding Motifs: A New Strategy for the Self-Assembly of Macromolecular Precursors," Archer, E. A.; Goldberg, N. T.; Lynch, V.; Krische, M. J. *J. Am. Chem. Soc.* **2000**, *122*, 5006.

17. "Formation and Interconversion of Artificial Single and Double Stranded Helices," Berl, V.; Huc, I.; Khoury, R. G.; Krische, M. J.; Lehn, J.-M. *Nature* **2000**, *407*, 720.

16. "Template-Induced and Molecular Recognition-Directed Hierarchical Generation of Supramolecular Assemblies from Molecular Strands," Berl, V.; Krische, M. J.; Huc, I.; Lehn, J.-M.; Schmutz, M. *Chem. Eur. J.* **2000**, *6*, 1938.

15. "Self-Assembly of 1- and 2-Dimensional Multicompartmental Arrays via the 2-Aminopyrimidine H-Bonding Motif and Selective Guest Inclusion," Krische, M. J.; Lehn, M.-J.; Kyritsakas, N.; Fischer, J.; Wegelius, E.; Rissanen, K. *Tetrahedron* **2000**, *56*, 6701.

14. "Utilization of Persistent Hydrogen-Bonding Motifs in the Self-Assembly of Supramolecular Architectures" Lehn, J.-M.; Krische, M. J.: A Chapter in "Structure and Bonding," **2000**, *94*, 3.

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13. "Self-Assembly of Helical Supramolecular Channels from Chiral Aminopyrimidine Hydrogen Bonding Motifs in the Solid State," Krische, M. J.; Lehn, J.-M.; Cheung, E.; Vaughn, G.; Krische, A. L. *C. R. Acad. Sci. Paris, t. 2, Série IIc*, **1999**, 549.

12. "The Palladium-Catalyzed Enyne Cycloisomerization Reaction in a General Approach to the Asymmetric Syntheses of the Picrotoxane Sesquiterpenes. Part II. Second Generation Total Syntheses of Corianin, Picrotoxinin, Picrotin and Methyl Picrotoxate," Trost, B.; Krische, M. J. *J. Am. Chem. Soc.* **1999**, *121*, 6131.

11. "The Palladium-Catalyzed Enyne Cycloisomerization Reaction in a General Approach to the Asymmetric Syntheses of the Picrotoxane Sesquiterpenes. Part I. First Generation Total Synthesis of Corianin and Formal Syntheses of Picrotoxinin and Picrotin," Trost, B.; Haffner, C.; Jeberatnam, D.; Krische, M. J.; Thomas, A. *J. Am. Chem. Soc.* **1999**, *121*, 6183.

10. "Dynamic Combinatorial Chemistry: Substrate H-Bonding Directed Assembly of Receptors Based on Bipyridine-Metal Complexes," Huc, I.; Krische, M. J.; Funeriu, D. P.; Lehn, J.-M. *Eur. J. Inorg. Chem.* **1999**, 1415.

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9. "Molecular Recognition Directed Self-Assembly of Pleated Sheets from Aminopyrimidine Hydrogen Bonding Motifs," Krische, M. J.; Lehn, J.-M.; Kyritsakas, N.; Fischer, J. *Helv. Chim. Acta* **1998**, *81*, 1909.

8. "Exploring the 2-Aminopyrimidine Hydrogen Bonding Motif: A Modular Approach to Alkoxy Functionalized Hydrogen-Bonded Networks," Krische, M. J.; Lehn, J.-M.; Kyritsakas, N.; Fischer, J.; Wegelius, E. K.; Nissinen, M. J.; Rissanen, K. *Helv. Chim. Acta* **1998**, *81*, 1921.

7. "Transformations of the Picrotoxanes: The Synthesis of Corianin and Structural Analogues from Picrotoxinin," Krische, M. J.; Trost, B. M. *Tetrahedron* **1998**, *54*, 7109.

6. "Total Synthesis of Methyl Picrotoxate via the Palladium Catalyzed Enyne Cycloisomerization Reaction," Krische, M. J.; Trost, B. M. *Tetrahedron* **1998**, *54*, 3693.

5. "On Asymmetric Induction in Allylic Alkylation via Enantiotopic Facial Discrimination," Trost, B. M.; Krische, M. J.; Radinov, R.; Zanolini, G. *J. Am. Chem. Soc.* **1996**, *118*, 6297.
4. "A General Strategy for the Asymmetric Synthesis of the Picrotoxanes," Trost, B. M.; Krische, M. J. *J. Am. Chem. Soc.* **1996**, *118*, 233.
3. "Transition Metal Catalyzed Cycloisomerizations," Trost, B.; Krische, M. J. *Synlett* **1998**, 1.
2. "Preparation of 9-Bromo-9-Phenylfluorene," Jamison, T. F.; Lubell, W.; Dener, J.; Krische, M. J.; Rapoport, H. *Org. Syn.* **1993**, *71*, 220.
1. " α -Amino- β -Keto Phosphonates in Synthesis: Synthesis of the Sphingosine Skeleton," Koskinen, A.; Krische, M. J. *Synlett* **1990**, 665.

E. Professional Service

Associate Editor

Chemical Communications, Royal Society of Chemistry
January 1, 2011- December 31, 2019.

Editorial Advisory Board

Topics in Current Chemistry
September 1, 2011-Present

Guest Editorial Service

Guest Editor, *Tetrahedron* **2009**, Volume 65, Issue 26
Symposium in Print: "Applications of Catalysis in Academia and Industry"

Guest Editor, *Account of Chemical Research* **2007**, Volume 40, Issue 12
Symposium in Print: "Hydrogenation and Transfer Hydrogenation"

Guest Editor, *Topics in Current Chemistry* **2007**, Volume 279
Symposium in Print: "Metal Catalyzed Reductive C-C Bond Formation"

Guest Editor, *Tetrahedron* **2005**, Volume 61, Issue 26
Symposium in Print: "Applications of Catalysis in Academia and Industry"

Scientific/Advisory Board Membership/Consultancy

Genentech, Consultant, January 2016 - Present.

ChemCatChem, International Advisory Board, January 2017 – December 2020.

Tetrahedron Journals, Board of Consulting Editors, January 2015 – March 2024.

Organometallics - Scientific Advisory Board Member, January 2012 - January 2015.

ACS Central Science, Editorial Advisory Board, January 1, 2015 - December 31, 2021.

Dr. Reddy's Laboratories, Consultant, January 2013 - January 2017.

Cambridge Major Laboratories, Scientific Advisory Board Member, June 2013 - June 2014 (bought out)

NSF On-Site Panel Review, University of Washington, Seattle, Center for Enabling New Technologies through Catalysis, June 11-12, 2014.

DOW Chemicals, Inc. Technical Advisory Board member, April 2014 - April 2015.

NIH Synthetic and Biological Chemistry B Study Section, 2007 - 2011

Élan Corporation, Consultant, June 2004 - February 2012

Expert Analyst, *CHEMTRACTS*, 2006 - 2010

SUMO Biosciences, Consultant, October 2014 - 2018.

Novartis Pharmaceuticals, Consultant, October 2009 - Present.

International Flavors and Fragrances Scientific Advisory Board, June 2018 - June 2019

Academia Sinica, Institute of Chemistry, Taiwan, Academic Advisory Committee, January 1, 2020 to Present.

5th International Symposium on Process Chemistry (ISPC2026), International Advisory Board

Chemistry – A European Journal, Editorial Advisory Board, 2026 to Present.

Professional Societies

American Chemical Society, Member, 1993 - Present

American Academy of Art and Sciences, Member, 2011 - Present

American Academy of Art and Sciences, Fellow, 2018 - Present

Royal Society of Chemistry, Fellow, 2013-Present

F. Research Presentations, Spring 2000-Present

395. OMCOS-23, Invited Seminar, Lausanne, Switzerland, July 19-23, 2027.

394. University of Chicago, Invited Seminar, April 12, 2027.

393. Northeastern University, Invited Seminar, March 31, 2027.

392. Boston University, Invited Seminar, March 30, 2027.

391. "Frontiers in Chemical Research" Seminar Series, **Karcher Lecturer**, Department of Chemistry, University of Oklahoma, Norman, Oklahoma, February 26, 2027.

390. Sustainable Catalysis and C–H Functionalization, Catalysis Innovation Consortium, Virtual Seminar, November 19, 2026.

389. **Eisch Lecturer in Organic Chemistry**, Department of Chemistry, Binghamton University, State University of New York, November 6, 2026.

388. Chemical Reaction Design and Discovery International Symposium ICRéDD, Hokkaido University, Japan, October 7-9, 2026.

387. Scripps Institution of Oceanography, Invited Seminar, September 28, 2026.

386. Meeting of the German Organic Chemical Community (ORCHEM), **Plenary Lecture**, Freiburg, Germany, September 7-9, 2026.

385. University of Warwick, Invited Seminar, United Kingdom, September 4, 2026.

384. Pfizer Medicinal Sciences, Invited Seminar, La Jolla, California, July 20, 2026.

383. TexSyn VII, Invited Seminar, UT Dallas, May 29-30, 2026.

382. University of Illinois at Urbana-Champaign, **Organic Syntheses Lecture**, April 13, 2026.

381. University of Texas at San Antonio, Invited Seminar, February 25, 2026.
380. Rice University, Invited Seminar, February 16, 2026.
379. Givaudan, Invited Seminar, Zürich, Switzerland, September 24, 2025.
379. Novartis, Invited Seminar, Basel, Switzerland, September 22, 2025.
378. Organic Researchers and Chemists Association (ORCA) at the University of Florida, Virtual Seminar, September 11, 2025.
377. Yamada-Koga Prize, Award Lecture, University of Tokyo, June 20, 2025.
376. Tohoku University, Invited Seminar, Sendai, Japan, June 18, 2025.
375. Gilead, Invited Seminar, Alberta, Canada, April 8, 2025.
374. University of Alberta, Gilead Lecture, Alberta, Canada, April 7, 2025.
373. ACS National Meeting, San Diego, Session on Confinement as an Enabling Tool for Homogeneous Catalyst Design, Invited Seminar, March 23, 2025.
372. SCRIPPS Research Institute, La Jolla/San Diego, Distinguished Lecture Series, February 18, 2025.
371. 5th Anatolian Conference on Organic Chemistry (ACOC5), Plenary Lecture, Antalya, Turkey, February 3-5, 2025.
370. Tokyo Institute of Technology, Invited Seminar, Tokyo, Japan, May 24, 2024.
369. Chuo University, Invited Seminar, Tokyo, Japan, May 23, 2024.
368. Korean Chemical Society Meeting, Suwon, Korea, Plenary Lecture, April 25, 2024.
367. Tsinghua University, Invited Seminar, Beijing, China, April 22, 2024.
366. Wednesday, Evotec, Invited Seminar (Virtual), April 17, 2024.
365. University of California, Santa Barbara (UCSB), Invited Seminar, April 8, 2024.
364. ACS National Meeting, New Orleans, Session on Metal Catalysis for Total Synthesis, Invited Seminar, March 18, 2024.
363. ACS National Meeting, New Orleans, Award Symposium Honoring William Nugent, Invited Seminar, March 17, 2024.
362. University of California, Davis (UCD), Invited Seminar, February 8, 2024.
361. ACS Southwestern Regional Meeting (SWRM), Oklahoma City, Invited Seminar, November 16, 2023.
360. The Negishi Lecture, Purdue University, September 26, 2023.
359. Northeastern University, Invited Seminar, Boston, May 22, 2023.
358. National ACS Meeting, Award Symposium Honoring Margaret Brimble, Invited Seminar, Indianapolis, March 26, 2023.
357. Texas Christian University, Ruth Evelyn Sanders Memorial Lectureship, November 17, 2022.
356. The Batsheva de Rothschild Seminar on Strong Bond Activation, Invited Seminar, Dead Sea, Israel, October 23-26, 2022.
355. RUDN Conference in Moscow, Plenary Lecture (virtual), September 26-30, 2022.

354. University of Indiana, Bloomington, Invited Seminar, September 19, 2022.
353. 32nd International Symposium on Chirality, Chicago, **Plenary Lecture**, June 17-20, 2022.
352. Hokkaido University, Japan, Invited Seminar, June 20, 2022.
351. Cutting Edge of Organic Synthesis Symposium, Invited Seminar, Kyoto, Japan, June 18, 2022.
350. Brigham Young University, Invited Seminar, Thursday, April 7, 2022.
349. Texas Tech, Lubbock, Texas, Invited Seminar, March 9, 2022.
348. Shanghai University, Invited Virtual Seminar, November 2, 2021.
347. 61st French National Congress on Organic Chemistry (GECO), **Plenary Lecture**, Montpellier, France, August 22-27, 2021.
346. 2nd Frontiers in Organometallics and Catalysis (FOMC) Conference, **Keynote Lecture**, Malaviya National Institute of Technology Jaipur (MNIT Jaipur), Rajasthan, India, January 20-22, 2021.
345. University of Bristol, United Kingdom, Invited Virtual Seminar, December 16, 2020.
344. University of Pennsylvania, **Susan P. and Barry M. Trost Lectureship in Organic Chemistry**, March 2, 2020.
343. Northeastern University, Invited Seminar, February 26, 2020.
342. Korea Research Institute of Chemical Technology (KRICT), Korea, Invited Seminar, November 15, 2019.
341. Korean Society of Organic Synthesis (KSOS), **Plenary Lecture Award**, Yongin, KOREA on November 14, 2019.
340. Sungkyunkwan University, Korea, Invited Seminar, November 13, 2019.
339. Seoul National University, Korea, Invited Seminar, November 13, 2019.
338. The 4th PKU-WuXi AppTec Symposium of Organic Chemistry, Invited Seminar, October 19, 2019.
337. Donghua University, Shanghai, China, Invited Seminar, June 25, 2019.
336. College of Chemistry, Sichuan University, Chengdu, China, Invited Seminar, June 21, 2019.
335. Shanghai University, Invited Seminar, Shanghai, China, June 18, 2019.
334. **Ta-Shue Chou Lecture & Award**, Institute of Chemistry, Academia Sinica, Invited Seminar, Taipei, Taiwan, March 15, 2019.
333. Taiwan National University, Invited Seminar, Taipei, Taiwan, March 13, 2019.
332. National Tsing-Hua University, Invited Seminar, Hsinchu City, Taiwan, March 12, 2019.
331. Duke University, Invited Seminar, March 5, 2019.
330. Emory University, Invited Seminar, February 18, 2019.
329. 9th International Forum on Chemistry of Functional Organic Chemicals (IFOC-9), Invited Seminar, Tokyo, Japan, November 17-19, 2018.
328. The Fourteenth International Kyoto Conference on New Aspects of Organic Chemistry (IKCOC-14), Invited Seminar, Kyoto, Japan, November 12-16, 2018.
327. 18th Tateshina Conference, Kurumayama Kogen, Invited Seminar, Chino, Nagano Prefecture, Japan, November 9-11, 2018.

326. University of Evansville, Invited Seminar, September 28, 2018.
325. Symposium Commemorating the 100th anniversary of Sir Derek Barton's Birthday, Invited Seminar, Imperial College, London, September 7, 2018.
324. Eli Lilly, Invited Seminar, Windlesham, UK, September 7, 2018.
323. Gordon Research Conference on Stereochemistry, Invited Seminar, Salve Regina College, Rhode Island, July 22–27, 2018.
322. Shanghai Jiao Tong University, Invited Seminar, Shanghai, China, July 5, 2018.
321. Shanghai Institute of Organic Chemistry, Invited Seminar, Shanghai, China, July 2, 2018.
320. Shanghai University, Invited Seminar, Shanghai, China, June 28, 2018.
319. University of Wisconsin, Madison, Sigma-Aldrich Lecture, April 26, 2018.
318. Organic Chemistry Division (DCO) of the French Chemical Society (SCF) Spring Meeting, Plenary Lecture, March 27, 2018.
317. University of California, Irvine, Bristol-Myers Squibb Lecture, March 6, 2018.
316. University of North Texas, Denton, Invited Seminar, March 2, 2018.
315. Queen's University, Kingston, Organic Reactions Lecture, February 16, 2018.
314. University of Rochester, Invited Seminar, November 15, 2017.
313. Royal Society of Chemistry, Perkin Division "Synthesis in Organic Chemistry" Symposium, Oxford University, Plenary Lecture, July 17-20, 2017.
312. 46th IUPAC World Chemistry Congress, Keynote Lecture, Sao Paulo, Brazil, July 9-14, 2017.
311. University of Delaware, Richard F. Heck Lecture, April 12, 2017.
310. University of Nevada, Reno, Invited Seminar, March 3, 2017.
309. 10th CaRLa Winter School on Homogeneous Catalysis, Invited Seminar, Heidelberg, Germany, February 12-17, 2017.
308. 21st International Conference on Organic Synthesis (ICOS-21), Plenary Lecture, Mumbai, December 11-16, 2016
307. Chemical Society of Basel, Invited Seminar, November 10, 2016.
306. École Polytechnique Fédérale de Lausanne (EPFL), Invited Seminar, November 9, 2016.
305. National University of Singapore, Invited Seminar, October 20-21, 2016.
304. Texas Tech University (Lubbock), Invited Seminar, October 4-5, 2016.
303. Ischia Advanced School of Organic Chemistry Conference (IASOC), Plenary Lecture, September 25-29, 2016.
302. Freie Universität Berlin, Invited Seminar, September 13, 2016.
301. Technion – Israel Institute of Technology, Schulich Symposium, Haifa, Israel, Invited Seminar, June 23, 2016.
300. Stanford University, Symposium Honoring Professor Barry Trost, Invited Seminar, May 21, 2016.
299. Northwestern University, Abbvie Lecture, Invited Seminar, May 4, 2016.

298. AbbVie - Process Chemistry and Catalysis, Invited Seminar, May 3, 2016.
297. Masaryk University, Brno, Invited Seminar, April 21, 2016.
296. Institute of Organic Chemistry and Biochemistry, Prague, Invited Seminar, April 20, 2016.
295. University of St. Andrews, Invited Seminar, April 8, 2016.
294. University of Newcastle, Invited Seminar, April 6, 2016.
293. University of Nottingham, Invited Seminar, April 4, 2016.
292. University of Missouri, St. Louis, **Robert W. Murray Lecture**, Invited Seminar, March 21, 2016.
291. University of Nebraska, Lincoln, Invited Seminar, February 12, 2016.
290. The 16th Tetrahedron Conference Asia Edition, **Keynote Lecture**, Shanghai, China, November 12, 2015.
289. Novartis Process Research, Changshu, China, Invited Seminar, November 10, 2015.
288. ACS Fall Organic Symposium, Princeton University, Invited Seminar, October 9, 2015.
287. SCRIPPS Research Institute, La Jolla/San Diego, **Aldrich Lecture**, September 18, 2015.
286. Seoul National University, **Eun Lee Lectureship**, Seoul, Korea, August 21, 2015.
285. BASF 150 Year Anniversary Conference "From Field to Table," Chicago, June 23-24, 2015.
284. 16th Tetrahedron Symposium, **Keynote Lecture**, Berlin, June 16-19, 2015.
283. Marburg University, Invited Seminar, June 16, 2015.
282. TexSyn II Conference, **Keynote Address**, The University of Texas at San Antonio, May 16, 2015.
281. Centre in Green Chemistry and Catalysis Annual Meeting, Plenary Lecture, Université Laval, Québec City, May 12, 2015
280. Miami University, Invited Seminar, Oxford, Ohio, April 16, 2015.
279. University of Illinois at Urbana-Champaign, Invited Seminar, April 13, 2015.
278. Allegheny College, March 31-April 1, 2015.
277. National ACS Meeting, Denver, CO, Invited Seminar (Symposium Honoring Jotham Coe), March 24, 2015.
276. Wayne State University, Frontiers in Chemistry Colloquium, February 23, 2015.
275. UCLA, **Boehringer-Ingelheim Lecture**, November 20, 2014.
274. Dow Chemical Company, Invited Seminar, Freeport, October 14, 2014.
273. Penn State University, Invited Seminar, September 8, 2014.
272. Gordon Research Conference on Organic Reactions and Processes, July 13-18, 2014.
271. Balticum Organicum Syntheticum (BOS 2014), Invited Seminar, Vilnius, Lithuania, July 6-9, 2014.
270. Bristol Synthesis Meeting, Invited Seminar, Bristol, United Kingdom, Tuesday, April 15, 2014.

269. UCB Pharma, Invited Seminar, Slough, United Kingdom, Monday, April 14, 2014.
268. Harvard University, Eli Lilly Lecture, Invited Seminar, April 7, 2014.
267. Boston College, Inaugural STREM Lecture, March 25, 2014.
266. University of Minnesota, Invited Seminar, March 13, 2014.
265. University of South Florida, Tampa, Invited Seminar, February 20, 2014.
264. Genentech, South San Francisco, Invited Seminar, February 11, 2014.
263. Regional ACS Meeting, Waco, Texas, Invited Seminar, November 18-19, 2013.
262. Symposium on Optically Active Compounds, Invited Seminar, Tokyo, Japan, November 1, 2013.
261. RIKEN Advanced Science Institute, Invited Seminar, Tokyo, Japan, October 31, 2013.
260. New Jersey Biotechnology Chemistry Consortium (NJBCC), Invited Seminar, Venenum Biodesign, October 15, 2013.
259. ACS symposium on Green Chemistry, Rutgers University, Keynote Speaker, October 4, 2013
258. Cambridge Major Labs, Germantown, Wisconsin, Invited Seminar, September 26, 2013.
257. National ACS Meeting, Indianapolis, In., Cope Scholar Award Symposium, September 8-12, 2013.
256. ACS Division of Organic Chemistry, Graduate Research Symposium, University of Delaware, Newark, July 25-28, 2013.
255. Gakushuin University, Invited Seminar, June 7, 2013.
254. Keio University, Invited Seminar, June 6, 2013.
253. Chuo University, Invited Seminar, June 5, 2013.
252. Tokyo Institute of Technology, Invited Seminar, June 4, 2013.
251. University of Tokyo, Invited Seminar, June 3, 2013.
250. Gifu University, Invited Seminar, May 31, 2013.
249. Symposium on Small Molecule Activation, Invited Seminar Himeji, Japan, May 29, 2013.
248. International Symposium on Organocatalysis, Invited Seminar, Otsu, Japan, May 26-28, 2013.
247. Pfizer Lecture in Synthetic Organic Chemistry, University of Waterloo, Canada, Invited Seminar, May 14, 2013.
246. Bürgenstock Conference, Switzerland, Invited Seminar, April 28 - May 3, 2013.
245. Aldrich Lecture, Vanderbilt University, Nashville, Tennessee, Invited Seminar, April 23, 2013.
244. Baker Symposium, Cornell University, Ithaca, New York, Invited Seminar, April 19-20, 2013.
243. National ACS Meeting, New Orleans, Invited Seminar, April 7, 2012.
242. University of Pennsylvania, Chemistry Distinguished Alumni Award Symposium in Honor of Professor Barry Trost, Invited Seminar, March 18, 2013.

241. Bayer-German Chemical Society Seminar Series, Invited Seminar, Wuppertal, Germany, March 5, 2013.
240. University of Florida, Gainesville, Florida, Invited Seminar, February 21, 2013.
239. University of Houston, Houston, Texas, Invited Seminar, February 4, 2013.
238. Indian Institute of Chemical Technology, Hyderabad, Invited Seminar, January 11, 2013.
237. Dr. Reddy's Laboratories Ltd., Hyderabad, Invited Seminar, January 9-10, 2013.
236. GlaxoSmithKline, United Kingdom, Invited Seminar, November 27, 2012.
235. Cambridge University, United Kingdom, GlaxoSmithKline Lecture, November 26, 2012.
234. 62nd Annual Frank Burnett Dains Memorial Lecture, University of Kansas at Lawrence, November 14-16, 2012.
233. Merck Research Laboratories, West Point, Pennsylvania, Invited Seminar, November 6, 2012.
232. Meyers Symposium, Colorado State University, Fort Collins, Saturday October 27, 2012.
231. Royal Institute of Technology, Holger Erdtman Lecture, Stockholm, Sweden, October 8, 2012.
230. New York University, New York, Invited Seminar, September 21, 2012.
229. Tetrahedron Prize Award Symposium Honoring Manfred Reetz, National ACS Meeting, Philadelphia, August 19-20, 2012.
228. Green Symposium, Bristol-Myers Squibb (BMS), Invited Seminar, New Brunswick, August 1, 2012.
227. Belgian Organic Synthesis Symposium (BOSS), Invited Seminar, Leuven, Belgium July 15-20, 2012.
226. 24th International Symposium on Chirality, Fort Worth, Plenary Lecture, June 13, 2012.
225. Hoffmann Distinguished Lecture, Imperial College, London, England, June 7, 2012.
224. Merck & Co., Inc., Boston, Invited Seminar, May 21, 2012.
223. University of Michigan, Ann Arbor, Invited Seminar, May 11, 2012.
222. The Ohio State University, Organic Workshop, Invited Seminar, May 25-26, 2012.
221. Rutgers University, New Jersey, Invited Seminar, April 26, 2012.
220. Merck Process Research, Rahway, New Jersey, Invited Seminar, April 25, 2012.
219. Texas A & M University, College Station, Texas, Invited Seminar, April 19, 2012.
218. University of Arkansas, Fry Lecture, April 2, 2012.
217. University of Texas at San Antonio, Invited Seminar, March 23, 2012.
216. Oklahoma University, Invited Seminar, February 24, 2012.
215. University of California at Santa Cruz, Invited Seminar, February 6, 2012.
214. Novartis Year of Chemistry Symposium, Basel, Switzerland, December 6, 2011.
213. Aldrich Lecture, Oklahoma State University, Stillwater, Invited Seminar, November 29, 2011.

212. University of Liverpool, **Sir Robert Robinson Distinguished Lecturer**, November 15, 2011.
211. 2011 Southwest Regional Meeting of the ACS (SWRM 2011), Invited Seminar, Austin, Texas, November 9th, 2011.
210. Abbott Laboratories Global Pharmaceutical Research and Development Discovery Chemistry Seminar Series, Invited Seminar, Chicago, Illinois, November 4, 2011.
209. Amgen, Invited Seminar, South San Francisco, October 25, 2011.
208. **GSK Chemistry Scholars Symposium, Award Lecture**, Research Triangle Park, NC, September 29, 2011.
207. 14th Brazilian Meeting on Organic Synthesis, Invited Seminar, September 1-5, 2011
206. University of Toronto, Invited Seminar, Toronto, Canada, August, 19, 2011.
205. WuXiApptec, Invited Seminar, Shanghai, China, July 28, 2011.
204. 16th Symposium on Organometallic Chemistry Directed towards Organic Synthesis (OMCOS 16), **Plenary Lecture**, Shanghai, China, July 24-28, 2011.
203. Eli Lilly, Indianapolis, Invited Seminar, June 28, 2011.
202. National Organic Symposium, Invited Seminar, Princeton University, New Jersey, June 5-9, 2011.
201. Gilead Sciences, Seattle, WA, Invited Seminar, May 26, 2010.
200. Cambridge Healthtech Institute, Current Process Chemistry: *Successes and Challenges in Drug Substance Process R&D*, **Keynote Lecture**, Philadelphia, June 3, 2011.
199. Case Western Reserve University, Invited Seminar, April 21, 2011.
198. Manchester Biomolecular Biennial Symposium, University of Manchester, April 12, 2011.
197. Novartis, East Hanover, New Jersey, Invited Seminar, March 28, 2010.
196. SCRIPPS Research Institute, La Jolla/San Diego, Invited Seminar, March 17, 2011.
195. University of Texas Southwestern Medical Center, Invited Seminar, March 15, 2011.
194. Oregon State University, Invited Seminar, February 17, 2011.
193. The 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem), Honolulu, Hawaii, USA, Three Invited Seminars & Conference Co-Organizer, December 15 - 20, 2010.
192. Gilead Sciences, Foster City, CA, Invited Seminar, September 21, 2010.
191. **Mukaiyama Award Symposium**, Invited Seminar, Kobe, Japan, September 2-4, 2010.
190. Boehringer Ingelheim Pharmaceuticals, Ridgefield, CT, Invited Seminar, August 19, 2010.
189. Gordon Research Conference on Stereochemistry, Invited Seminar, Salve Regina College, Rhode Island, August 1-6, 2010.
188. University of Regensburg, Germany, Invited Seminar, July 9, 2010.
187. Aachen University, Germany, Invited Seminar, June 30, 2010.
186. Syngenta Crop Protection, Basel, Switzerland, Invited Seminar, June 24, 2010.

185. University of Geneva, Switzerland, Invited Seminar, June 10, 2010.
184. Firmenich Inc., Geneva, Switzerland, Invited Seminar, June 9, 2010.
183. Sanofi-Aventis, Frankfurt, Germany, Invited Seminar, May 31, 2010.
182. DSM Nutritional Products, Basel, Switzerland, Invited Seminar, May 25, 2010.
181. Princeton University, Invited Seminar, "Bristol-Meyers-Squibb Lecture," April 26, 2010.
180. University of Notre Dame, Invited Seminar, April 15, 2010.
179. ACS National Meeting, San Francisco, Invited Seminar at Award Symposium Honoring Professor Ei-ichi Negishi's Receipt of the 2010 ACS Award for Creative Work in Synthetic Organic Chemistry, March 21-25, 2010.
178. CaRLa Winter School, Heidelberg, Germany, Invited Seminar, March 7-11, 2010.
177. Schering-Plough Research Institute, Invited Seminar, Union, NJ, December 8, 2009.
176. Bristol-Myers Squibb, Discovery Chemistry Department, Lawrenceville/Hopewell, Invited Seminar, November 19, 2009.
175. University of York, Invited Seminar, York, UK, Invited Seminar, October 21, 2009.
174. Challenges for Catalysis in Fine Chemicals and Pharmaceuticals II, London, UK, Invited Seminar, October 20, 2009.
173. Pfizer Global Research & Development, Groton, CT, Invited Seminar, October 15, 2009.
172. 24th Annual W. S. Johnson Symposium in Organic Chemistry, Stanford University, Invited Seminar, October 2-3, 2009.
171. Exxon-Mobile, Baytown, TX, Invited Seminar, September 22, 2009.
170. AstraZeneca, Wilmington, DE, Invited Seminar, September 10, 2009.
169. National ACS Meeting, Washington DC, Plenary Lecture in Green Chemistry, August 16, 2009.
168. International Conference on Green & Sustainable Chemistry, Singapore, Plenary Lecture, August 3-5, 2009.
167. Gordon Conference on Natural Products Chemistry, Invited Seminar, July 26-30, 2009.
166. Technical University Munich, Germany, Invited Seminar, July 7, 2009.
165. Ludwig-Maximilians-Universität (LMU), Munich, Germany, Invited Seminar, July 6, 2009.
164. Tetrahedron Young Investigator Award, Award Lecture, Paris, France, June 24-26, 2009.
163. Helsinki University, Finland, Invited Seminar, June 8-9, 2009.
162. Bayer CropScience, Frankfurt, Germany, Invited Seminar, June 4, 2009.
161. Max Planck Institute (Mulheim), Invited Seminar, May 28, 2009.
160. University of Montreal, Invited Seminar, "Eisai Lecturer," May 6, 2009.
159. Oxford University, Invited Seminar, The Andy Derome Lecture, April 27-28, 2009.
158. Albany Molecular Research, Invited Seminar, Albany, NY, April 17, 2009.
157. Novartis-Basel, Novartis Lectureship, April 1, 2009.

156. University of Pennsylvania, Invited Seminar, "**Novartis Lecturer**," March 16, 2009.
155. Zing 2009 Conference: Catalytic Reactions in Research and Process Chemistry, Antigua, March 4-7, 2009.
154. Sepracor, Marlborough, Massachusetts, Invited Seminar, February 9, 2009.
153. Eastman Chemical Company, Kingsport Tennessee, Invited Seminar, January 19, 2009.
152. Glaxo-Smith-Kline, Tonbridge, United Kingdom, Invited Seminar, November 7, 2008.
151. Pfizer-Sandwich, United Kingdom, Autumn Symposium, November 6, 2008.
150. Novartis-Horsham, United Kingdom, Novartis Lectureship, November 5, 2008.
149. **Green Chemistry Symposium**, Pfizer Research Laboratories-St Louis, Invited Seminar, October 28, 2008.
148. ACS ProSpectives conference on Organic Reactions and Syntheses, Philadelphia, Invited Seminar, October 27, 2008.
147. Purdue University, Invited Seminar, **3rd Annual Brown-Negishi Lectures**, October 13-14, 2008.
146. Freiburg University, Germany, Invited Seminar, September 3, 2008.
145. Leibniz-Institut for Catalysis, Rostock University, Germany, Invited Seminar, September 2, 2008.
144. Gordon Conference on Green Chemistry, Invited Seminar, August 3-8, 2008.
143. International Symposium on Process Chemistry, Kyoto, Japan, Invited Seminar, July 28-30, 2008.
142. Gordon Conference on Organic Reactions and Mechanisms, Invited Seminar, July 13-18, 2008.
141. The 17th International Conference on Organic Synthesis (IUPAC ICOS-17) at Daejeon, Korea, Invited Seminar, June 22-27, 2008.
140. Kangwon National University, Korea, Invited Seminar, June 22, 2008.
139. Novartis Emeryville, CA, **Novartis Lectureship**, June 9, 2008.
138. Modern Synthetic Methods & Chiral Europe Conference, Vilamoura, Portugal, Invited Seminar, May 21-23, 2008.
137. INNOVATION-II" conference in Tarragona, Spain, Invited Seminar, May 20-22, 2008.
136. Institute of Chemical Research of Catalonia (ICIQ), Tarragona, Spain, Invited Seminar, May 19, 2008.
135. Novartis Cambridge, MA, **Novartis Lectureship**, May 13, 2008.
134. University of North Carolina, Chapel Hill, "**Scynexis Lecture**," April 18, 2008.
133. Glaxo-Smith-Kline, Invited Seminar, April 18, 2008.
132. University of Ottawa, "**Merck-Frosst Lecture**," March 14, 2008.
131. Dupont Crop Protection, Invited Seminar, Newark, DE, March 10, 2008.
130. Centre for Synthesis and Chemical Biology (CSCB) Annual Symposium, Dublin, Ireland, Invited Seminar, December 14, 2007.
129. 62nd Southwest Regional American Chemical Society Meeting, Plenary Lecture, November 4-7, 2007.

128. University of Basel, Switzerland, Invited Seminar, October 2, 2007.
127. Hoffman LaRoche, Basel, Switzerland, Invited Seminar, October 1, 2007.
126. Dow Chemicals, Inc. Freeport, TX, Invited Seminar, September 27, 2007.
125. GlaxoSmithKline, Invited Seminar, September 11, 2007.
124. ACS National Meeting in Chicago, Invited Seminar, August 19-23, 2007.
123. 14th IUPAC Symposium on Organometallic Chemistry Directed towards Organic Synthesis (OMCOS14) in Nara, Japan. Invited Seminar, August 2-6, 2007.
122. Dowpharma Prize Lecture at the Chiral USA Conference, Philadelphia, July 11-13.
121. Merck – West Point, PA, Invited Seminar, July 10, 2007.
120. Merck Process – Rahway, NJ, Invited Seminar, July 9, 2007.
119. Presidential Green Chemistry Award Lecture, Washington D.C., June 26, 2007.
118. Beijing University, China, Invited Seminar, June 16, 2007.
117. 8th International Symposium on Carbanion Chemistry, Madison, Wisconsin, Plenary Lecture, June 6-10, 2007.
116. Schering-Plough, New Jersey, Invited Seminar, May 30, 2007.
115. Aldrich Chemicals, Milwaukee, Wisconsin, Invited Seminar, May 8, 2007.
114. ACS National Meeting in Chicago, Elias J. Corey Award Symposium, March 25-29, 2007.
113. Elan Pharmaceutical, Invited Seminar, March 15, 2007.
112. Chicago University, Invited Seminar, February 19, 2007.
111. Johnson & Johnson Focused Funding: 25 Years of Innovation Symposium, Invited Seminar, November 27-28, 2006.
110. Yale University, Invited Seminar, November 8, 2006.
109. UCLA, Invited Seminar, October 5, 2006.
108. University of Alabama, Invited Seminar, September 21, 2006.
107. Gordon Research Conference on Heterocyclic Chemistry, Invited Seminar, July 2-7, 2006.
106. Solvias Science Day (Basel, Switzerland), Invited Seminar, June 23, 2006.
105. Hoffmann-La Roche Ltd., Palo Alto, Invited Seminar, June 22, 2006.
104. East China Normal University, Invited Seminar, May 19, 2006
103. Shanghai Institute of Organic Chemistry, Invited Seminar, May 18, 2006
102. Bonn University, Invited Seminar, March 17, 2006.
101. Max Planck Institute (Mulheim), Invited Seminar, March 16, 2006.
100. Karlsruhe University, Invited Seminar, March 15, 2006.

99. Boehringer-Ingelheim (Biberbach), Invited Seminar, March 14, 2006.
98. Marburg University, Invited Seminar, March 13, 2006.
97. Université Louis Pasteur, Invited Seminar, March 10, 2006.
96. Indiana University, Invited Seminar, February 20, 2006.
95. University of Toronto, Invited Seminar, "Boehringer-Ingelheim Lecture," February 10, 2006.
94. Boehringer-Ingelheim (Montreal), Invited Seminar, February 9, 2006.
93. Boston College, Invited Seminar, February 7, 2006.
92. University of West Virginia, Invited Seminar, November 30, 2005.
91. Johnson & Johnson Rariton PRD, Invited Seminar, November 18th.
90. National Tsing Hua University, Invited Seminar-10th International Chemical Conference in Taipei, October 28-30, 2005.
89. Kyoto University, Invited Seminar, September 14, 2005.
88. Nagoya Institute of Technology, Invited Seminar, September 13, 2005.
87. Nagoya University (Japan), Invited Seminar, September 12, 2005.
86. Gifu University (Japan), Invited Seminar, September 10, 2005.
85. Mie University (Japan), Invited Seminar, September 9, 2005.
84. "The Society of Synthetic Chemistry, Japan: 2005 Lectureship," Takayama City, September 6-8, 2005.
83. Tokyo University (Japan), Invited Seminar, September 5, 2005.
82. Tokyo Institute of Technology (Japan), Invited Seminar, September 3, 2005.
81. Gakushuin University (Japan), Invited Seminar, September 2, 2005.
80. Stanford University, Invited Seminar-"Futures in Organic Chemistry Seminar Series," April 6, 2005.
79. Amgen-Thousand Oaks, Invited Seminar, May 20, 2005.
78. Pfizer-St. Louis, Invited Seminar, May 16, 2005.
77. Amgen-Cambridge, Invited Seminar, March 18, 2005.
76. Yale University, Connecticut Organic Chemistry Symposium, Invited Seminar, January 28, 2005.
75. Osaka University (Japan), Invited Seminar, January 12, 2005.
74. Kyoto University (Japan), Invited Seminar, January 11, 2005.
73. Conference on Organometallic Chemistry – Japanese Ministry of Education, Invited Seminar, January 8-9, 2005.
72. Pfizer-Japan, Invited Seminar, January 7, 2005.
71. Bristol-Myers Squibb Process Research and Development (New Brunswick), Invited Seminar, October 21, 2004.

70. Pfizer Pharmaceutical, Invited Seminar, October 7, 2004.
69. ACS Southwest Regional Meeting Invited Seminar, September 29 – October 02, 2004.
68. Bristol University (UK), Invited Seminar, September 24, 2004.
67. Oxford University (UK), Invited Seminar, September 23, 2004.
66. Imperial College (UK), Invited Seminar, September 21, 2004.
65. Elan Pharmaceutical, Invited Seminar, September 17, 2004.
64. Pennsylvania State University, Invited Seminar, September 13, 2004.
63. Research Conference on Organic Synthesis, Invited Seminar, Edinburgh, Scotland, July 27-31, 2004.
62. Gordon Research Conference on Stereochemistry, Invited Seminar, June 20-25, 2004.
61. ALA LabFusion 2004 Conference, Invited Seminar, June 12-16, 2004.
60. Merck Symposium: "Catalysis in Organic Chemistry," Invited Seminar, UC Irvine, June 5, 2004.
59. Ligand Pharmaceutical, Invited Seminar, April 30, 2004.
58. Johnson and Johnson, Invited Seminar, April 29, 2004.
57. University of Texas at San Antonio, Invited Seminar, April 21, 2004.
56. Abbott Laboratories, Invited Seminar, April 16, 2004.
55. University of Texas Southwestern Medical Center, Invited Seminar, April 6, 2004.
54. Boston University, Invited Seminar, "Novartis Lecturer," March 29, 2004.
53. Harvard University – Eli Lilly Symposium, Invited Seminar, March 22, 2004.
52. Eli Lilly Pharmaceutical, Invited Seminar, March 1-2, 2004.
51. Stanford University, Invited Seminar, February 18, 2004.
50. University of California at Berkeley, Invited Seminar, "BMS Organic Synthesis Lecturer," February 17, 2004.
49. The Scripps Research Institute, Invited Seminar, January 30, 2004.
48. NSF Young Investigator Workshop on Supramolecular Chemistry, Invited Seminar, January 11-15, 2004.
47. Albany Molecular, Invited Seminar, January 9, 2004.
46. Texas Academy of Sciences Inaugural Meeting, San Antonio, January 6-7, 2004.
45. University of Colorado, Invited Seminar, November 18, 2003.
44. Colorado State University, Invited Seminar, November 17, 2003.
43. University of North Carolina, Chapel Hill, Invited Seminar, November 14, 2003.
42. ACS Midwest Regional Meeting, Invited Seminar, November 6, 2003.

41. ACS Southwest Regional Meeting, Invited Seminar, October 26-28, 2003.
40. Wayne State University, Invited Seminar, October 15, 2003.
39. University of Michigan, Invited Seminar, October 14, 2003.
38. University of Utah, Invited Seminar, October 2, 2003.
37. Texas Christian University, Invited Seminar, September 30, 2003.
36. IUPAC-Conference on Supramolecular Chemistry, Invited Seminar, August 10-15, 2003.
35. Gordon Conference on Natural Products Chemistry, Invited Seminar, July 27-August 1, 2003.
34. Gordon Conference on Organic Reactions and Mechanisms, Invited Seminar, July 20-25, 2003.
33. NSF-Workshop on Synthesis, Invited Seminar, July 10-14, 2003.
32. Boehringer Pharmaceutical, Invited Seminar, May 22, 2003.
31. Bristol-Myers Squibb Pharmaceutical Research Institute (Wallingford), Invited Seminar, May 21, 2003.
30. Bayer Pharmaceutical, Invited Seminar, May 9, 2003.
29. Emory University, Invited Seminar, April 22, 2003.
28. Georgia Institute of Technology, Invited Seminar, April 22, 2003.
27. Yale University, Invited Seminar, April 16, 2003.
26. University of Houston, Invited Seminar, April 8, 2003.
25. ACS National Meeting: New Orleans, Louisiana, Invited Seminar, March 23-27, 2003.
24. Texas A&M University, Invited Seminar, March 20, 2003.
23. University of Illinois at Urbana-Champaign, Invited Seminar, March 12, 2003.
22. University of Wisconsin at Madison, Invited Seminar, March 11, 2003.
21. Tulane University, Invited Seminar, February 19, 2003.
20. Merck Pharmaceutical, Invited Seminar, February 5, 2003.
19. Purdue University, Invited Seminar, January 28, 2003.
18. University of Kentucky, Invited Seminar, December 13, 2002.
17. Ohio State University, Invited Seminar, December 12, 2002.
16. University of Pennsylvania, Invited Seminar, December 2, 2002.
15. ACS Southwest Regional Meeting, Invited Seminar, November 3-6, 2002.
14. ACS Southwest Regional Meeting, Session Organizer, November 3-6, 2002.
13. ACS Midwest Regional Meeting, Invited Seminar, October 23-25th, 2002.

12. Columbia University, Invited Seminar, October 10, 2002.
11. Gordon Conference on Heterocyclic Chemistry, Invited Seminar, July 8-12, 2002.
10. NSF-Workshop on Physical Organic Chemistry, Invited Seminar, June 1-5, 2002.
9. Eli Lilly Pharmaceutical, Invited Seminar, July 23, 2002.
8. Pfizer Pharmaceutical, Invited Seminar, May 23, 2002.
7. ACS National Meeting: Orlando, Florida, Invited Seminar, April 8-12, 2002.
6. Caltech, Invited Seminar, March 27, 2002.
5. Bristol-Myers Squibb Pharmaceutical Research Institute (Princeton), Invited Seminar, March 22, 2002.
4. Princeton, Invited Seminar, March 14, 2002.
3. Gordon Conference on Supramolecular Chemistry, Oral Presentation, July 29-August 3, 2002.
2. ACS Southwest Regional Meeting, Invited Seminar, Friday, October 19, 2001.
1. Texas Lutheran University, Invited Seminar, Spring 2000.