

Joseph Martin Ready

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University of Texas Southwestern Medical
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Employment

2007 – Associate Professor, UT Southwestern
2007 – Chair, chemistry training track, UT Southwestern
2003-2007 Assistant Professor, UT Southwestern and Southwestern Medical
Foundation Endowed Scholar

Education:

2001 Ph.D. in Chemistry
Harvard University, Cambridge, MA

1996 B.S. in Chemistry, Highest Honors, Highest Distinction
University of North Carolina, Chapel Hill, NC

Research Experience:

2001 - 2003 **Postdoctoral Fellow with John L. Wood**
Yale University, New Haven, CT
Studies towards the total synthesis of Welwitindolinone A

1997 - 2001 **Graduate Research with Eric N. Jacobsen**
Harvard University, Cambridge, MA
Development of catalytic asymmetric epoxide ring opening reactions

1995 - 1997 **Research Assistant with Masahiko Negishi**
National Institute of Environmental Health Sciences
Research Triangle Park, NC
Studies on sex-dependent expression of Cytochrome P450 2D9

1995 - 1996 **Undergraduate Research with Paul J. Kropp**
University of North Carolina, Chapel Hill, NC
Studies on alumina-mediated reactions

Awards and Fellowships:

- 2009 - 2011 Fellow of the Alfred P. Sloan Foundation
2008 American Cancer Society Research Scholar
2007 Amgen Young Investigator Award
2006 NSF CAREER Award
2003 Southwestern Medical Foundation Scholar in Biomedical Research
2001 - 2003 NIH Postdoctoral Fellow (Yale University, 2001-2003)
2000 - 2001 Eli Lilly and Company predoctoral fellowship (Harvard University)
1999 - 2000 American Chemical Society, Organic Division predoctoral fellowship (Harvard University)
1996 Phi Beta Kappa (University of North Carolina, Chapel Hill)

Independent Research Publications:

- Pu, X.; Qi, X.; Ready, J. M. "Allenenes in Asymmetric Catalysis: Asymmetric Ring Opening of meso-Epoxides Catalyzed by Allene-Containing Phosphine Oxides" *J. Am. Chem. Soc.* **2009**, *131*, 10364-10365.
- Qi, X.; Ready, J. M. "Synthesis of Cyclopentenones from Cyclopropanes and Silyl Ynol Ethers" *Angew. Chem. Int. Ed.* **2008**, *47*, 7068-7070.
- Pu, X.; Ready, J. M. "Direct and Stereospecific Synthesis of Allenenes via Reduction of Propargylic Alcohols with Cp₂Zr(H)Cl" *J. Am. Chem. Soc.* **2008**, *130*, 10874-10875.
- DeBergh, J. R.; Spivey, K. M.; Ready, J. M. "Preparation of Substituted Enol Derivatives from Terminal Alkynes and Their Synthetic Utility" *J. Am. Chem. Soc.* **2008**, *130*, 7828-7829.
- Liu, X.; Ready, J. M. "Directed Hydrozirconation of Homopropargylic Alcohols" *Tetrahedron*, **2008**, *64*, 6955-6960.
- Zhang, D. H.; Ready, J. M. "Directed Hydrozirconation of Propargylic Alcohols" *J. Am. Chem. Soc.* **2007**, *129*, 12088-12089.
- Germanas, J. P.; Wang, S.; Miner, A.; Hao, W.; Ready, J. M. "Discovery of Small-Molecule Inhibitors of Tyrosinase" *Bioorg. Med. Chem. Lett.* **2007**, 6871-6875.
- Qi, X.; Ready, J. M. "Copper-Promoted Cycloaddition of Diazocarbonyl Compounds and Acetylides" *Angew. Chem. Int. Ed.* **2007**, *46*, 3242-3244.
- Zhang, D. H.; Ready, J. M. "Iron-Catalyzed Carbometalation of Propargylic and Homopropargylic Alcohols" *J. Am. Chem. Soc.* **2006**, *128*, 15050-15051.
- Bian, J.; Wingerden, M. V.; Ready, J. M. "Enantioselective Total Synthesis of (+)- and (-)-Nigellamine A₂" *J. Am. Chem. Soc.* **2006**, *128*, 7428-7429.

Zhang, D. H.; Ready, J. M. "Tandem Carbocupration/Oxygenation of Terminal Alkynes" *Org. Lett.* **2005**, 7, 5681-5683.

Malosh, C. F.; Ready, J. M. "Catalytic Cross-Coupling of Alkylzinc Halides with α -Chloroketones" *J. Am. Chem. Soc.* **2004**, 126, 10240-10241.

Patents

Schneider, J.; Hsieh, J.; Frantz, D. E.; McKnight, S. L.; Ready, J. M. "Chemical Inducers of Neurogenesis." 2008, WO 2008046072.

Review Articles

Lynch, K. W.; Ready, J. M. "Science at the interface of chemistry and biology at UT Southwestern" *ACS Chem. Biol.* **2007**, 512-514.

Publications from Postdoctoral Studies:

Reisman, S. E.; Ready, J. M.; Weiss, M. M.; Hasuoka, A.; Hirata, M.; Tamaki, K.; Ovaska, T. V.; Smith, C. J.; Wood, J. L. "Evolution of a Synthetic Strategy: Total Synthesis of Welwitindolinone A Isonitrile." *J. Am. Chem. Soc.* **2008**, 130, 2087-2100.

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, 1448-1449.

Ready, J. M.; Reisman, S. E.; Hirata, M.; Weiss, M. M.; Tamaki, K.; Ovaska, T.; Wood, J. L. "A Mild and Efficient Synthesis of Oxindoles: Application to the Synthesis of Welwitindolinone A Isonitrile." *Angew. Chem. Int. Ed.*, **2004**, 43, 1270-1272.

Publications from Graduate Studies:

Ready, J. M.; Jacobsen, E. N. "A Practical Oligomeric [(salen)Co] Catalyst for Asymmetric Epoxide Ring-Opening Reactions." *Angew. Chem. Int. Ed.*, **2002**, 41, 1374-1377.

Ready, J. M.; Jacobsen, E. N. "Highly Active Oligomeric (salen)Co Catalysts for Asymmetric Epoxide Ring Opening Reactions." *J. Am. Chem. Soc.* **2001**, 123, 2687-2688.

Ready, J. M.; Jacobsen, E. N. "Asymmetric Catalytic Synthesis of α -Aryloxy Alcohols: Kinetic Resolution of Terminal Epoxides via Highly Enantioselective Ring Opening with Phenols" *J. Am. Chem. Soc.* **1999**, 121, 6086-6087.

