Ross V. Weatherman, Ph.D.
Professor
Department of Chemistry and Biochemistry
Rose-Hulman Institute of Technology
Terre Haute, Indiana USA

Academic Record

Ph.D. 1996 Department of Chemistry, University of Wisconsin-Madison
A.B. 1991 Wabash College, Chemistry major, graduated *summa cum laude*

Academic Appointments

Professor, Rose-Hulman Institute of Technology, Department of Chemistry and Biochemistry, 2015-present

Associate Professor, Rose-Hulman Institute of Technology, Department of Chemistry and Biochemistry, 2011-2015

Assistant Professor, Rose-Hulman Institute of Technology, Department of Chemistry and Biochemistry, 2009-2011

Assistant Professor, Purdue University, Department of Medicinal Chemistry and Molecular Pharmacology, 2001-2009.

American Cancer Society Postdoctoral Fellow, University of California, San Francisco, Department of Pharmaceutical Chemistry, 1997–2001.

Awards and Honors

2016	Board of Trustees Outstanding Scholar Award
2007	Purdue University Seeds for Success Award
2004	AACP-AFPE Pharmacy Faculty New Investigator Award
1997-2000	American Cancer Society, California Division Postdoctoral Fellow
1995-1991	Hoechst Outstanding Graduate Student in Organic Chemistry, Amoco Graduate Fellowship, NIH Biotechnology Predoctoral Fellowship, Wisconsin Alumni Research Foundation Fellowship

Professional Memberships

American Chemical Society, Sigma Xi, Phi Beta Kappa, Alpha Chi Sigma Chemistry Fraternity, Phi Lambda Sigma Pharmaceutical Chemistry Fraternity

Published Work last 10 years (out fo 30 total) *(* denotes corresponding author)*

1. Weatherman RV: "Radiopharmaceutical Chemistry: General Topics" textbook chapter for *Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine* Kowalsky, RJ and Weatherman, KD, *eds*., slated for publication in 2019
2. Weatherman RV: "Radiopharmaceutical Chemistry: Technetium Agents" textbook chapter for *Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine* Kowalsky, RJ and Weatherman, KD, *eds*., slated for publication in 2019
3. Weatherman RV: "Radiopharmaceutical Chemistry: Nonechnetium Agents" textbook

chapter for *Radiopharmaceuticals in Nuclear Pharmacy and Nuclear Medicine* Kowalsky, RJ and Weatherman, KD, *eds*., slated for publication in 2019

4. *Weatherman RV: The Role Of Selective Estrogen Receptor Destabilizers (SERDs) In Breast Cancer Therapy. *Drugs of the Future.* **2016**, *41,* 361.
5. Shearer, K. E., Rickert, E. L., Peterson, A. C., & *Weatherman, R. V. Dissecting rapid estrogen signaling with conjugates. *Steroids*. **2012,** *77*, 968-973.
6. Shah, V. P.; Chegini, H. A.; Vishneski, S. R.; Weatherman, R. V.; Blackmore, P. F.; *Dobrydneva, Y. Tamoxifen promotes superoxide production in platelets by activation of PI3- Kinase and NADPH oxidase pathways. *Thrombosis Research,* **2012**, *129*, 36–42.
7. Rickert, E.L.; Oriana, S.; Hartman-Frey, C.; Long, X.; Webb, T.T.; Nephew, K.P.; *Weatherman, R.V. Synthesis and characterization of fluorescent 4-hydroxytamoxifen conjugates with unique antiestrogenic properties. *Bioconjugate Chemistry.* **2010** *21*, 903-10
8. *Weatherman, R. V.. Review of "Cancer Drug Discovery and Development-Hormone Therapy in Breast and Prostate Cancer. Edited by V. Craig Jordan and Barrington JA Furr." *ChemMedChem* **2010**, *5*, 1152 – 1154.
9. *Weatherman, R. V., Untangling the Estrogen Receptor Web: Tools to Selectively Study Estrogen binding Receptors. In *Nuclear Receptors as Drug Targets*, Ottow, E.; Weinmann, H., Eds. Wiley-VCH, **2008**, 47-64.
10. *Weatherman, R. V. Sensing Estrogen's Many Pathways. *ACS Chem. Biology*, **2008**, *3*, 338-40.
11. Rickert, E. L.; Trebley, J. P.; Peterson, A. C.; Morrell, M. M.; *Weatherman, R. V., Synthesis and Characterization of Bioactive Tamoxifen-conjugated Polymers. *Biomacromolecules*. **2007** *8*, 3608-12.
12. *Dobrydneva, Y.; Weatherman, R. V.; Trebley, J. P.; Morrell, M. M.; Fitzgerald, M. C.; Fichandler, C. E.; Chatterjie, N.; Blackmore, P. F., Tamoxifen Stimulates Calcium Entry into Human Platelets. *Journal of Cardiovascular Pharmacology.* **2007** *50*, 380-390.
13. Fan, M., Rickert, E. L., Chen, L., Aftab, S. A., Nephew, K. P., and *Weatherman, R. V. Characterization of molecular and structural determinants of selective estrogen receptor downregulators. *Breast Cancer Research and Treatment*. **2007**. *103*, 37-44

Invited lectures last 10 years (out of 25 total)

1. "eBadges as Credentials for the Entrepreneurial Mindset", KEEN Winter Conference Workshop, Dallas, TX, January 2018.
2. "eBadges as Credentials for the Entrepreneurial Mindset", KEEN Winter Conference Lecture, Jacksonville, FL, January 2017.
3. "Credentialing the Entrepreneurial Mindset." AAEEBL Regional Conference, Notre Dame University, May 2016.
4. "Studies on Tamoxifen at the Undergraduate Level", Purdue Organic Chemistry, Purdue University, May 2012.
5. "Fluorescent Conjugates for Studying Rapid Steroid Signaling" invited talk at

International Symposium on Rapid Steroid Signaling, Crete, Greece, September 2011.

6. "Dissecting Estrogen Signaling Using Antiestrogen Conjugates," poster presentation at Bioorganic Chemistry Gordon Research Conference, New Andover, NH, June 2011
7. "Separation Anxiety: Chromatography in Nuclear Pharmacy", invited talk at National Meeting of American Pharmacists Association, Seattle, WA, March 2011.
8. "Chemical Biology of Estrogen Signaling in Breast Cancer", Manchester College, February 2010.
9. "Chemical Biology of Estrogen Signaling in Breast Cancer", Rose-Hulman Institute of Technology, February 2009.

Research Grants and Awards last 10 years (out of 11 grants for $2.1M total)

1. Agency: KEEN Network
   Title: Credentialing the Entrepreneurial Mindset
   Duration: 1 month each year from 2015-18 Total Amount of Award: $22,000
2. Agency: Rose-Hulman Multimedia Learning Tools Development Grant
   Title: Multimedia Interactive Learning Modules for Organic Chemistry 2
   Duration: 6/1/2017-6/30/2017 Total Amount of Award: $5000
3. Agency: Rose-Hulman Summer Professional Development Grant
   Title: Synthesis & Study of Novel Tamoxifen Linkers as Breast Cancer Agents
   Duration: 7/1/2017-7/31/2017 Total Amount of Award: $5000
   Role: Principal Investigator
4. Agency: Rose-Hulman Multimedia Learning Tools Development Grant
   Title: Multimedia Interactive Learning Modules for Organic Chemistry
   Duration: 7/1/2013-7/31/2013 Total Amount of Award: $5000
5. Agency: Rose-Hulman Ventures
   Title: Project with Cummins Inc.
   Duration: 6/1/2013-2015 Total Amount of Contract: $35,000
   Role: Co-project manager with Mike Mueller
6. Agency: National Institute of Diabetes and Digestive and Kidney Diseases
   Title: Novel Bioconjugates as Probes of Estrogen Receptors
   Duration: 5/1/07-4/30/13 Total Amount of Award: $1,410,000
   Role: Principal Investigator with subcontract to Ken Nephew, Indiana University
   Total Amount of Award: Direct: $20,000

<u>National Review Panels</u>

National Science Foundation Postgraduate Research Fellowship (2015-19),
NCAA Postgraduate Scholarship Review Panel, Region 4 (2016-present)
NSF, Instrumentation Development for Biological Research (2013)
Army Breast Cancer Program
Cancer Experimental Therapeutics study section (2003-2010)
Cancer Experimental Therapeutics Concept Award (2006-2010)

National Institutes of Health (2007,2010)
Susan G. Komen Foundation (2007-2008)

Rose-Hulman

Promotion, Tenure and Retention Committee (2019-present)
Institute Faculty Athletic Representative (2016-present)
Faculty Affairs Committee (2015-present, chair 2017-2018))
KEEN Credentialing Committee (2015-present)
Academic Affairs Restructuring Committee (member, 2015)
Honors and Awards Committee (chair, 2013-2015)
Safety, Security, Waste, & Traffic Committee, (member 2010, chair 2011-2013)
Class of 2017 Chemistry and Biochemistry Major Advisor (Class of 2017, 20121)
Freshman Advisor (2012-2015, 2017)
Departmental Undergraduate Research Curriculum Committee (chair, 2014, 2017)
General chemistry laboratory planning committee (chair, 2012-2014)
Online chemistry feasibility committee (chair, 2011)
Organic chemistry lab renovation (chair, 2011)
Faculty search committees (member, 2012-2013)
Chemistry major retention committee, (member, 2010)
Engineering Chemistry Steering Committee, (member, 2010)

Purdue University

Department Summer Undergraduate Research Program (coordinator, 2005-2007)
Department Graduate Advisory Committee, (member, 2004-2007)
Department Graduate Admissions Committee, (member, 2002-2006)
United Way Fundraising Drive (captain, 2005-08; Jr. Chair, 2005; Sr. Chair, 2006)
Faculty Search Committees, (member, 2003-2005)
School of Pharmacy Scholarship Committee, (member, 2003-2008)
Purdue University Life Science Recruiting Committee, (member, 2004-2008)