

## CURRICULUM VITAE

### Blake Robert Peterson

**Business Address**     The Ohio State University, College of Pharmacy  
Division of Medicinal Chemistry and Pharmacognosy  
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<https://www.linkedin.com/in/blake-r-peterson-3428b616/>  
<https://scholar.google.com/citations?user=dhiOh60AAAAJ&hl=en>

### Educational Background

**Damon Runyon - Walter Winchell Cancer Research Foundation Postdoctoral Fellow  
Harvard University (1995 – 1998)**

**Ph.D. in Chemistry, University of California, Los Angeles (1994)**

**B.S. in Chemistry (with distinction), University of Nevada, Reno (1990)**

### Professional Experience

**The Ohio State University, Division of Medicinal Chemistry and Pharmacognosy**  
Professor of Medicinal Chemistry with Tenure (2019 – Present)  
Chair of the Division of Medicinal Chemistry and Pharmacognosy (2019 – Present)  
Co-Leader, Translational Therapeutics, OSU Comprehensive Cancer Center (2019 – Present)  
Co-Director, Medicinal Chemistry Shared Resource, OSUCCC (2019–Present)

**The University of Kansas, Department of Medicinal Chemistry**  
Regents Distinguished Professor of Medicinal Chemistry with Tenure (2008 – 2019)  
Adjunct Professor of Medicinal Chemistry (2019 – Present)  
Co-Leader, Synthetic Chemical Biology Core Facility (2012-2019)

**Indigo Biosciences Inc., State College, PA**  
Co-Founder (2005); Member of the Board of Directors (2005 – 2014)

**The Pennsylvania State University, Department of Chemistry**  
Assistant (1998 – 2004) and Associate (2004 – 2007, with Tenure) Professor of Chemistry

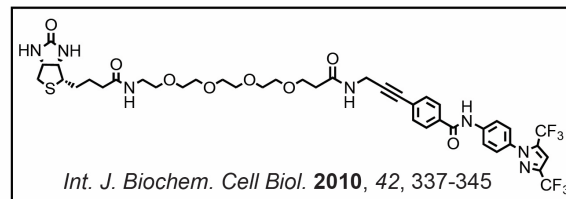
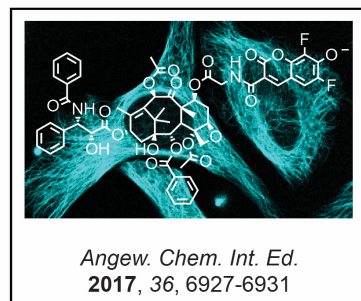
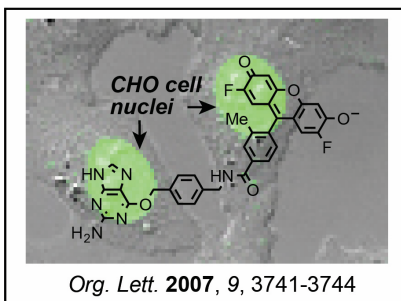
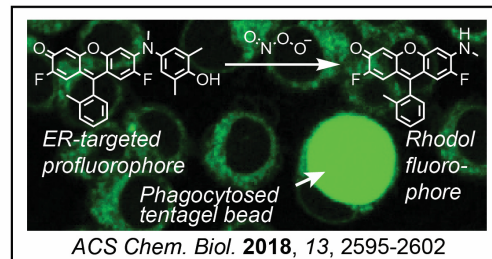
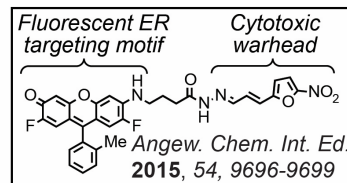
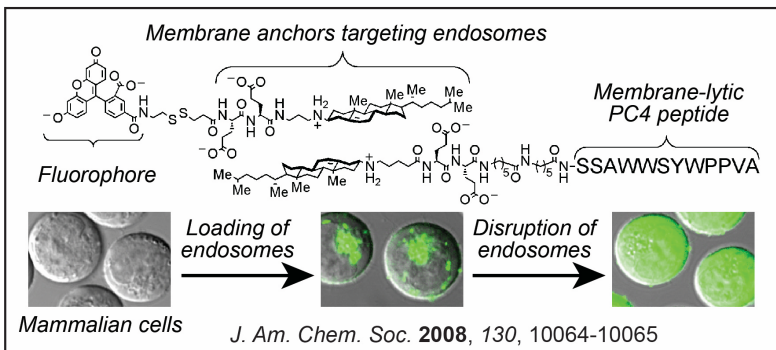
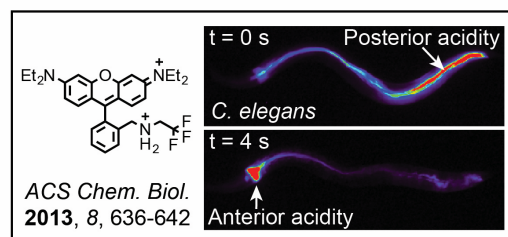
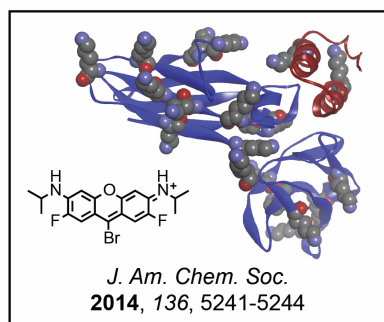
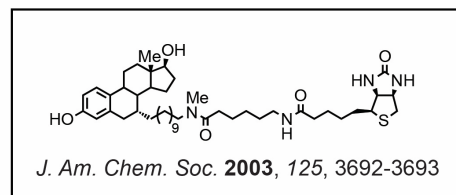
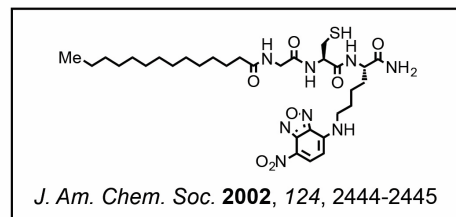
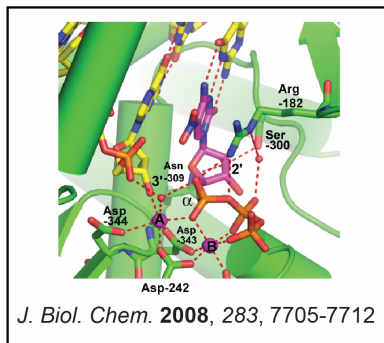
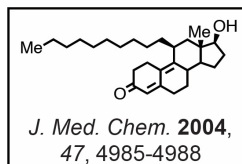
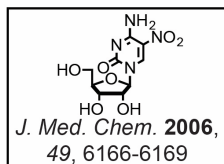
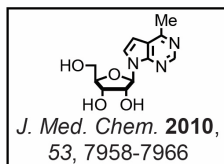
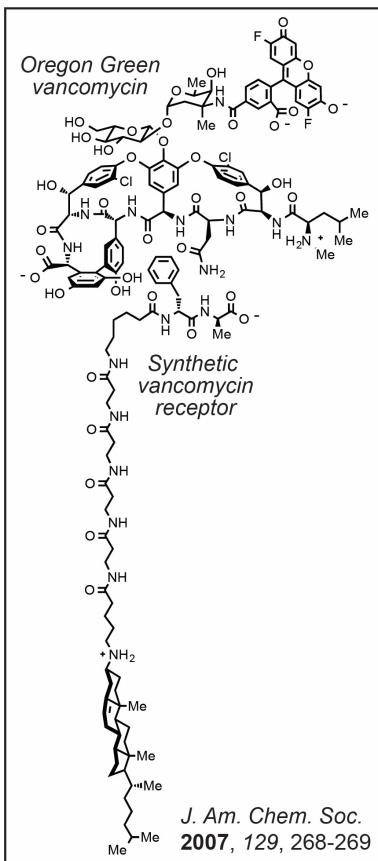
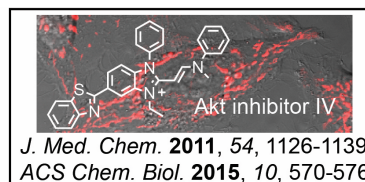
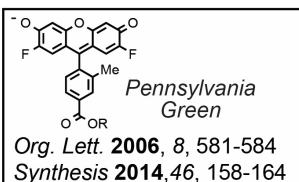
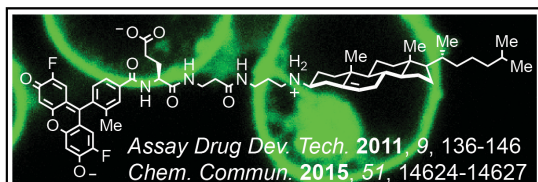
**Harvard University, Department of Chemistry and Chemical Biology**  
Damon Runyon-Walter Winchell Cancer Research Postdoctoral Fellow (1995 – 1998)

**Swiss Federal Institute of Technology (ETH - Zürich), Department of Chemistry**  
Research Assistant (1992 – 1994)

**University of California, Los Angeles, Department of Chemistry and Biochemistry**  
Research Assistant (1991 – 1992); Teaching Assistant (1990 – 1991)

### Research Interests

*My research group creates chemical tools for the study of cancer biology and other biological systems. By conducting interdisciplinary research in the fields of bioorganic / medicinal chemistry and chemical biology, we investigate anticancer agents, molecular probes, methods for therapeutic targeting, and tools for target identification. Our expertise includes the synthesis of steroids, lipids, nucleosides, peptides, heterocycles, fluorophores, and protein conjugates, and the evaluation of these compounds in biochemical assays, whole cell assays, and model organisms. Our goal is to identify new therapeutic approaches and mechanisms. Representative published compounds are shown on page 2.*



## **Honors and Awards**

Named the John W. Wolfe Chair in Cancer Research by the OSUCCC (2020)  
Elected Fellow of The American Association for the Advancement of Science (AAAS, 2013)  
*For distinguished contributions to the field of bioorganic chemistry, particularly the development of synthetic mimics of cell surface receptors and fluorescent probes of biological systems*  
Leading Light Research Award, University of Kansas (2012)  
Named an Eminent Scholar by the Kansas Biosciences Authority (2008)  
Named a Regents Distinguished Professor by the Regents of the University of Kansas (2008)  
Elected Co-Chair of the 2007 Gordon Conference on Bioorganic Chemistry (Andover, NH)  
Elected to the Faculty of 1000 Biology (2004): Chemical Biology, Macromolecular Chemistry  
Camille Dreyfus Teacher Scholar Award (2004)  
Department of Defense Breast Cancer Research Concept Award (2004)  
Department of Defense Prostate Cancer Research Idea Award (2004)  
Invited Speaker at the Chemistry and Biology of Peptides Gordon Conference (Ventura, CA, 2004)  
Invited Speaker at the Gordon Conference on Bioorganic Chemistry (Andover, NH, 2003)  
Named an American Cancer Society Research Scholar (2003)  
Department of Defense Breast Cancer Research Concept Award (2003)  
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Department of Defense Breast Cancer Research Concept Award (2000)  
Damon Runyon - Walter Winchell Cancer Research Postdoctoral Fellow (1995-1997)  
Phi Kappa Phi Honor Society (1990)  
American Institute of Chemists Outstanding Senior Student Award (1990)  
National Science Foundation Research Experience for Undergraduates Award (1990)  
Golden Key National Honor Society (1989)  
American Institute of Chemists Outstanding Senior Student Award (1989)  
Dean's List (1989)  
University of Nevada, Reno Undergraduate Teaching Fellowship (1989)  
University of California, Santa Cruz Summer Undergraduate Research Fellowship (1988)  
Charles F. Cutts Scholarship (1988)  
Mr. and Mrs. Murdock McCleod Scholarship (1988)  
Chemistry Faculty Scholarship (1987)  
Chemistry Alumni Scholarship (1987)  
R. C. Fuson Scholarship (1986)

## **Current Professional Memberships**

Member, American Chemical Society (ACS)  
Member and Elected Fellow, American Association for the Advancement of Science (AAAS)  
Member, The Ohio State University Comprehensive Cancer Center (OSUCCC)  
Member, American Association for Cancer Research (AACR)  
Member, Pelotonia Institute for Immuno-oncology (PIIO)  
Member, Center for Cancer Engineering (CCE-CURES)

## **Graduate Students, Postdoctoral Fellows, and Undergraduates**

### ***Current Graduate Students, Postdoctoral Fellows, and other Co-Workers***

*Dr. Erick Carlson* – Postdoctoral Fellow (8/19 – Present)  
*Ms. Lillian Cool* – Graduate Student in Medicinal Chemistry and Pharmacognosy (8/20 – Present)  
*Mr. Xiaojun Hu* – Graduate Student in Medicinal Chemistry and Pharmacognosy (8/19 – Present)  
*Mr. Szu (Sean) Lee* – Graduate Student in Medicinal Chemistry and Pharmacognosy (8/21 – Present)  
*Dr. Digamber Rane* – Senior Researcher (5/15 – Present)  
*Dr. Anver Shaik* – Postdoctoral Fellow (3/21 – Present)  
*Dr. Serena Zhao* – Research Specialist (10/20 – Present)

**Former Graduate Students and Postdoctoral Fellows (1998-Present)**

- Dr. Angelo Andres* – HHMI Gilliam Graduate Student in Medicinal Chemistry (1/17 – 2/22, Senior Scientist, AstraZeneca Pharmaceuticals)
- Dr. Sonalee Athavankar* – Graduate Student in Chemistry (11/99-1/06, Principal Scientist, Advinus Therapeutics)
- Kyle Bailey* – Graduate Student in Medicinal Chemistry (1/08-8/11, Research Assistant, The University of Pittsburgh)
- Dr. Aaron Bender* – Research Associate & Director of Molecular Probes Core (11/09-3/15, Instructor of Biological and Physical Sciences, Central Wyoming College)
- Zach Biddle* – Graduate Student in Chemistry (10/04-8/06, Senior Manager at Ernst & Young)
- Dr. Siwarutt Boonyarattanakalin* – Graduate Student in Chemistry (11/00-12/05, Associate Professor at SIIT, Thailand)
- Sutang Cai* – Graduate Student in Chemistry (10/05-12/09, Scientist, Exide Tech., Atlanta, GA)
- Dr. Daniel D. Clark* – Graduate Student in Chemistry (11/98-10/04, Associate Professor of Chemistry, Mathematics, and Physics at Clarion University, PA)
- Dr. Steffen P. Creaser* – Postdoctoral Fellow (2/00–10/02, Regulatory Affairs International Associate II, Genzyme, Cambridge, MA)
- Dr. Mike DeGrazia* – Graduate Student in Chemistry (11/01-10/07, Patent Attorney at McCarter & English, LLP)
- Dr. Jocelyn Edathil* – MD/PhD Graduate Student in Chemistry (8/03-8/08, Assistant Professor, Temple University)
- Robert Feltz* – Graduate Student in Chemistry (6/04-6/06, Supervisor of Analytical R&D, Lannett Co.)
- Dr. Safiyah Forbes* – IRACDA Postdoctoral Fellow (8/11-7/13, Assistant Professor, Skyline College, CA)
- Dr. Liqiang Fu* – Postdoctoral Fellow (7/10-6/13, Senior Scientist, Johnson and Johnson, China)
- Dr. Zhe (Gavin) Gao* – Graduate Student in Medicinal Chemistry (10/12 – 6/19, Postdoctoral fellow at Texas A&M)
- Dr. Joseph Gargano* – Postdoctoral Fellow (10/03–5/04, Technical Director at Vedeqsa Inc.)
- Dr. Daniel A. Harki* – Graduate Student in Chemistry (11/99-6/05, Associate Professor of Medicinal Chemistry, U. Minnesota)
- Dr. Enfei He* – Postdoctoral Fellow (12/98-8/99, Global Strategic Purchasing Manager, Albemarle Corp.; Houston TX)
- Dr. Bart Heldreth* – Postdoctoral Fellow (1/05 – 10/06, Chemist at Cosmetic Ingredient Review, Washington DC)
- Dr. Rebecca Henkhaus* – Postdoctoral Fellow (5/08-8/09, Technical Supervisor, Clinical Reference Laboratory, Kansas City, KS)
- Dr. Abu Hossion* – IRACDA Postdoctoral Fellow (2/14 – 8/16, Instructor in Chemistry, Cloud County Community College)
- Dr. Stephen L. Hussey* – Graduate Student in Chemistry (11/98-4/03, Director at Anton Paar)
- Dr. David Hymel* – Graduate Student in Medicinal Chemistry (1/09-10/14, subsequently a Postdoc at NCI with Terry Burke; currently a Research Scientist at Novo Nordisk, Seattle)
- Prof. Guafeng (Gordon) Jia* – Visiting Associate Professor (5/15 – 9/15)
- Ms. Kelsey Knewtson* – Graduate Student in Medicinal Chemistry (1/13 – 5/19, currently a postdoctoral fellow with Jenny Robinson at the University of Kansas)
- Ms. Molly M. Lee* – Graduate Student in Medicinal Chemistry (1/12 – 12/16, subsequent postdoctoral fellow with Don Bottaro at NCI, currently a Chemist at CDER, FDA)
- Dr. Bailin Lei* – Postdoctoral Fellow (7/17 – 5/19)
- Dr. Ze Li* – Postdoctoral Fellow (5/09-7/10, Research Scientist at Covance, Indianapolis, IN)
- Dr. Megan M. MacBride* – Graduate Student in Chemistry (11/99-12/05, Senior Scientist at Taconic)
- Dr. Scott E. Martin* – Graduate Student in Chemistry (11/98-5/04, Group Leader at Genentech)
- Mr. Matt Meinig* – Graduate Student in Medicinal Chemistry (10/09 – 9/15, Pharmacologist, US Army Medical Research Institute of Infectious Diseases)
- Dr. Laurie F. Mottram* – Graduate Student in Chemistry (11/02-9/07, Senior Project Manager at Johnson Matthey)

*Dr. Smita M. Muddana* – Graduate Student in Chemistry (11/98-3/04, Research Scientist at Clorox)  
*Cameron Ng* – Graduate Student in Medicinal Chemistry (10/11-1/14, Senior Research Associate, Heron Therapeutics)  
*Dr. Chamani Perera* – Research Associate (1/10 – 3/15, Director of the Synthetic Chemical Biology Core Facility, the University of Kansas (3/15-Present))  
*Ms. Sahishna Phaniraj* – Graduate Student in Medicinal Chemistry (1/15 – 11/19, Regulatory Affairs Specialist III at Sanofi Pasteur)  
*Aimee M. Price* – Graduate Student in Chemistry (11/98-5/01, Scientist at Novartis Pharmaceuticals)  
*Dr. Sheryl A. Rummel* – Graduate Student in Chemistry (6/03-8/08, Director of Undergraduate Instrumentation at Penn State University)  
*Dr. Kalai Selvi Shanmugam* – Postdoctoral Fellow (3/09-8/10)  
*Dr. Krishna Sharma* – Postdoctoral Fellow (9/19 – 11/21, Researcher at Iowa State U.)  
*Dr. Sangarappan Sivakumar* – Postdoctoral Fellow (10/02–10/03, Director at Vector Bio)  
*Dr. Qi Sun* – Graduate Student (1/04-5/09, Professor, School of Chemistry and Chemical Engineering, Jiangxi Science and Technology Normal University, Nanchang, China)  
*Mr. Tomas Smith* – Graduate Student in Medicinal Chemistry (1/18 – 7/19, Research Scientist II at Novartis Institutes for Biomedical Research)  
*Kathleen M. Veety* – Graduate Student in IBIOS Chemical Biology (6/01-5/03, High school teacher in Baltimore, MD)  
*Dr. Nicole Windmon* – IRACDA Postdoctoral Fellow (8/15 – 6/16, Upper School Chemistry Professor, The Webb Schools, Claremont, CA)  
*Dr. Robert Winefield* – Postdoctoral Fellow (9/10-1/12, Field Service Engineer, Thermo Fisher)  
*Dr. Zachary Woydziak* – IRACDA Postdoctoral Fellow (9/09-8/12, Associate Professor at Nevada State College)  
*Dr. Runzhi Wu* – Graduate Student in Chemistry (Penn State, 10/05-8/10, Technology Specialist in China)  
*Dr. Jun Xu* – Postdoctoral Fellow (7/10-12/11, Research Scientist at ABA Chemical)  
*Ning Yang* – Graduate Student in Medicinal Chemistry (1/11-9/13)  
*Ms. Yuwen (Alicia) Yin* – Graduate Student in Medicinal Chemistry (1/16 – 3/21, Postdoctoral Fellow with Jianzhu Chen at MIT)

### ***Theses and Dissertations Supervised***

2017-2022 Ph.D. Dissertation, Medicinal Chemistry (KU) “New Approaches for Quantification of Engagement and Modulation of Targets by Small Molecules in Living Cells” *Angelo E. Andres*

2016-2021 Ph.D. Dissertation, Medicinal Chemistry (KU) “Novel Small Molecule Probes and Methods to Quantify Binding to C1 Domains of Protein Kinase C in Living Cells” *Yuwen Yin*

2014-2019 Ph.D. Dissertation, Medicinal Chemistry (KU) “Studies of Interactions of Small Molecules with Membranes and Proteins” *Sahishna M. Phaniraj*

2017-2019 Master’s Thesis, Medicinal Chemistry (KU) “Discovery of Novel Inhibitors of Cellular Efflux by High-Content Screening with a Fluorescent Mimic of Taxol” *Tomas Smith*

2012-2019 Ph.D. Dissertation, Medicinal Chemistry (KU) “Synthesis and Evaluation of Fluorescent Tools for Studies of Cancer Biology” *Zhe Gao*

2012-2019 Ph.D. Dissertation, Medicinal Chemistry (KU) “Studies of Novel Targeted Drug Delivery Systems and Molecular Probes of Cancer Biology” *Kelsey E. Knewtson*

2012-2016 Ph.D. Dissertation, Medicinal Chemistry (KU) “An Improved Synthesis of the Pacific Blue Fluorophore and Fluorescence-Based Studies of Receptor-Ligand Interactions” *Molly M. Lee*

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