

Kelly Wentz-Hunter

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Education:

Ph.D. 1997. Department of Pharmacology and Molecular Biology
Rosalind Franklin University of Medicine and Sciences
Formally: Finch University of Health Sciences

B.S.

University of Saint Francis, Joliet, IL
Formally: College of St. Francis
Major: Biology Minor: Chemistry

TEACHING

Teaching Experience:

2017-present	Professor of Biology, Allied Health Coordinator, Pre-professional Advisor, Director MA Biomedical Sciences Program, Roosevelt University, Chicago, IL
2012-2017	Associate Professor of Biology, Allied Health Coordinator, Pre-professional Advisor, Roosevelt University, Chicago, IL
2006-2012	Assistant Professor of Biology, Roosevelt University, Chicago, IL
2006	Adjunct Faculty, Lewis University, Romeoville, IL Taught Introduction to Toxicology for upper level majors.
2006	Adjunct Faculty, University of Saint Francis, Joliet, IL Taught Human Biology and laboratory for non-majors.
2005- 2006	Adjunct Faculty, Triton College, Melrose Park, IL Taught Biology 100 General Biology and laboratory and Biology 114 Human Genetics and laboratory for non-majors.
2004- 2006	Adjunct Faculty, Malcolm X College, Chicago, IL Taught Biology 121, Molecular and Cellular Biology and laboratory for majors.

1993-1996

Sheba Prasad [2014-2016]
Dong-Jin Choi [2012-2015]
Karina Valentin [2015]
Eleanor McCree [2014]
Conor Heffernan [2014]
Shira Lambert [2012-2013]
Janet Zayas [2012-2014]
Chris Williams [2012]
Richard Chan [2012]
Irene Gallos [2011-2012]
Hilal Gurler [2011-2012]
Ruth Moser [2009-2010]
Dinesh Veerapalli [2011]
Sarah Bascharon [2010-2011]
Johara Veal [2010-2011]
Dunchao Xing [2009-2010]
Dipti Panchal [2008-2009]
Jennifer Vlk [2007-2008]
Adam McKenzie [2007]

Undergraduate Students [45]

Petrus De Campos Kermessi [2016]
Natcha Butera [2015]
Najoua Alloualla [2014]
Marc Nunez [2014]
Asylnn Cummings [2014-2015]
Shatiana Turnage [2014]
Rebecca Wilson [2013-2015]
Siobhan Odendaal [2013-2014]
Sanah Baseer [2013]
Lexi Carlile [2013]
Meredith Rounds [2013]
Saba Ahmed [2012-2013]
Kayla Velazquez [2012-2013]
Ann Nguyen [2011]
Vaiva Liakaite [2010]
Geoff Dutton [2009]
Usman Raheemi [2009]
Rajalekshmy Shyam [2007- 2009]
Brett Calka [2008-2009]
Desi Evans [2008]
Janea Swanson [2008]
Megan Kreft [2007-2008]
Taneesha Shaw [2007]

-2015]
Jeremiah Furman [2105]
Ryan Sheldon [2015]
Diamond Grady [2014]
Christopher Cummings [2013]
Betty Khelivch [2012- 2013]
Nidhi Mistry [2012]
Robert Anderson [2012]
Dana Gust [2012]
Jennifer Moerke [2011-2012]
Swathi Naaka [2010-2011]
Natalie Kudlak [2011]
Michael Boyd [2011]
Christina Bivian [2011-2011]
Devika Malempati [2010]
Ashley Leverenz [2009-2010]
Harini Yalamanchili [2008-2009]
Nicole Nelson [2007-2008]
Julia Davis [2006-2007]

Jenna Jabali [2014-present]
Milana Williams [2015]
Vidal Santacruz [2014]
Amanda Alt [2014]
Anna Eickhoff [2014]
Kessy Kessler [2014]
Meghan Odendaal [2013-2014]
Olantanye Aluko [2013]
Carmen Brown [2013]
Alexandria Owens [2013]
Patricia Sullivan [2012-2013]
Sarah Toma [2012-2013]
Yuridana Comacho [2011-2012]
Jackie Brandt [2011]
Terry Pernel [2010]
Barbara Misielak [2009]
Umer Raheemi [2009]
Matthew Amidon [2008-2009]
Jennifer Beltzer [2008-2009]
Elizabeth Krupica [2008]
Christina Swiderski [2008]
Jenilee Candari [2007-2008]

2016- *Effects of Antioxidant Epigallocatechin Gallate (EGCG) on Pancreatic Cancer*, Sheba Prasad

2015- *The Effects of Pterostilbene in Pancreatic Cancer*

[6]

Deborah Eng [2015]; Nausheen Khan [2014]; April Quarles [2014]; Phylcia Robins [2013]; John Literacki [2011]; Andrew Baker [2010]

[12]

2015- *Differential expression of IPCEF-1 in pancreatic cancer cell line PANC-1 after treatment with EGCG*, Aslynn Cummings

2014- *Effects of Phloretin on DHCR24 gene of PANC-1*, Meghan Odendaal

An Apple a Day Keeps the Oncologist Away? Siobhan Odendaal

2013- *Differential gene expression in trabecular meshwork cells after treatment with phloretin*, Norhan Elsayed

Differential gene expression in pancreatic cancer after treatment with
p3()8(i)-3(r)11(tre)-2(a)-3(tm)11(e)yatic cancer a O p 97T ET EMC P J(n)-3(tJEn(a)-3(ticcre

undergraduate program in Health Sciences Administration. This program that will begin in Fall 2018 will be part of the Department of Biological, Chemical, and Physical Sciences and I will be involved in the hiring of a director and non-tenure track faculty for the program.

2016- Dual Acceptance Program BS/PharmD

The Dual Acceptance Program [DAP] is an early assurance program for select high school seniors. The program provides students who are motivated to become pharmacists with a clear path to achieving their goal directly out of high school. Incoming freshman students admitted to DAP are required to complete their prerequisite requirements during the first three years at the College of Arts & Science, and then transition into the College of Pharmacy to begin a three-year Doctor of Pharmacy program. I was responsible for preparing the proposal and working with the Deans in both the College of Arts and Sciences and College of Pharmacy to final approval. Currently I am part of a committee working with the Admissions and Marketing Departments at the University to implement and promote the program for Fall 2017.

2014- Biomedical Sciences, MA

This 9-12 month MA program was designed to help students with a bachelor's degree, preferably with a major in the sciences, improve their academic foundation in the biomedical sciences and augment their credentials for admission into medical school or other health professional programs. The program is a good fit for students with a good overall application package who need an additional opportunity to demonstrate their ability to master challenging coursework.29.26 aoingr cle3(rog)5ich126.02(0)-3(1)6(4)]

the only BS Histotechnology training program in the state of Illinois. The collaboration with NMH was initiated by the Department of Pathology because they could not find qualified histotechnologists to hire. NMH approached the University because of our relationship and reputation within the Clinical Schools at NMH. I was responsible for preparing the required support documents for proposing this new degree and receiving approval for the program at all University levels. I have also worked with the Admissions and Marketing Departments at the University to promote the program.

Biology BS 3+1

This program was initiated to allow Roosevelt University to offer a BS in Biology with a 3+1 program. The program was initiated in 2010 and has since then been a successful part of the University's offerings. The program is designed to allow students to complete their undergraduate degree in three years and then spend one year at a graduate level institution. This program was initiated to allow Roosevelt University to offer a BS in Biology with a 3+1 program. The program was initiated in 2010 and has since then been a successful part of the University's offerings. The program is designed to allow students to complete their undergraduate degree in three years and then spend one year at a graduate level institution.

sonography. This degree has attracted new majors to the University and broadened the range of career opportunities for our graduates. I was responsible for preparing the required support documents for proposing this new degree and receiving approval for the program at all University levels. I have also worked with the Admissions and Marketing Departments at the University to promote the program.

New course Development

- 2017- BIOL 383/483: Special Topics: Survival of the Sickest
- 2017- ACP 110: Primary Texts
- 2015- BIOL 443: Clinical Bioethics and Medical Literature
- 2014- ACP 101:21st Century Health Care
- 2011- BIOL 468: Research Methods
- 2009- BIOL 350/450: Cancer Biology
PHIL 337: Science and Ethics [Honors]
- 2008- BIOL 440: Human Pharmacology

Pedagogical reform

- 2015- PULSE: Partnership for Undergraduate Life Science Education
Our department initiated a visit from the PULSE Ambassador Program in the fall of 2015. The department is currently working with the initiatives of PULSE to reform our biology curriculum.

Life Science Teaching Resource Center [LifeSciTRC] Scholars/Fellows Meeting

I was one of twelve individuals invited to participate in the LifeSciTRC task force meeting. During the meeting, we worked in large and small groups to develop recommendations for the identifying, supporting, and retaining LifeSciTRC community leaders, promoting the scholarship of teaching and learning in the community, addressing science standards and recommendations (Next Generation Science Standards & Vision and Change), community tools and topics and partner involvement in the Community.

2014- LifeSciTRC Fellow

LifeSciTRC is an online community for life science educators at all levels. The community and educational resources found on this site are free and open to educators worldwide. In 2013, I completed the LifeSciTRC scholars program. The scholars program is designed to help educators find and evaluate electronic resources to use with students, effectively use electronic resources in student-centered learning, apply the core concepts and competencies of Vision and Change in Science Education to existing classroom materials, find and evaluate existing resources and resource

collections centered around Vision and Change and further professional development by participating in an online community. After completion of the program, I was asked to become a LifeSciTRC Fellow. As a fellow, I was responsible for mentoring two different scholar groups through the program. This included grading submissions, answering questions and helping participants improve their competencies in regards to Vision and Change.

2009- Cellular and Molecular Biology: Cancer

nominated by Wm. David Burns, founder and PI of SEN6sPR, 120.74 598.54 TEm(S)-2Fr

Recruitment and Advising:

Pre-professional Advisor, 2012-present

I direct the pre-professional health programs and help prepare students for application to professional schools such as medicine, dentistry, optometry,

cells after oxidative stress; Protective effects of anti-oxidants against oxidative stress in the trabecular meshwork cells; The role of anti-oxidants in differential gene expression of cancer cell lines.

Visiting Research Assistant Professor

5/2009-1/2010 Rosalind Franklin University of Medicine and Science,
Department of Molecular Pharmacology
Purification and characterization of serum microRNA
biomarkers for antioxidants in humans

Visiting Research Assistant Professor

2002- 2006 University of Illinois at Chicago, Department of
Ophthalmology and Visual Sciences
RNA interference of myocilin expression in the trabecular
meshwork.

Instructor

2001-2002 University of Illinois at Chicago, Department of
Ophthalmology and Visual Sciences
Discovery of interacting factors of myocilin, a glaucoma
gene.

Postdoctoral
Fellow

1997-2001 Laboratory of Dr. Beatrice Yue, University of Illinois at
Chicago
Characterization of the function of myocilin in the trabecular
meshwork and its role in glaucoma: Biochemical analysis of
keratoconus, a thinning corneal disease.

Doctoral
1991-1997

Laboratory of Dr. Judith Potashkin, Finch University of
Health Sciences
Characterization of the pre-mRNA splicing factor U2AF in
fission yeast.

Undergrad
1990-1991

Laboratory of Dr. Salim Diab, College of Saint Francis
Characterization of the allelopathic compound juglone.

Publications

Peer Reviewed Manuscripts

Potashkin J, Naik K, **Wentz-Hunter K.** (1993) U2AF homolog is required for
splicing in vivo. *Science* 262: 573

Potashkin J, **Wentz-Hunter K**, Callaci J. (1996) BTF3 is conserved in fission yeast. *Biochim. Biophys. Acta.* 1308: 182-184.

McKinney R, **Wentz-Hunter K**, Schimitz H, and Potashkin J (1997) Molecular analysis of a novel fission yeast gene spUAP2 that associates with the splicing factor spU2AF59. *Mole. Genet.* 32: 232-235.

Ueda J, **Wentz-Hunter K**, Cheng E, Fukuchi T, Abe H, Yue BYJT. (2000)

oxidative stress in trabecular meshwork cells. *Molecular Vision*, 20160289, revised manuscript in review

Wentz-Hunter K. Using post-test analysis to develop metacognitive awareness and increase student performance. *Science Education*, in review
Cordeiro NJ, Karimuribo E, Keyyu J, Lonsdorf E, Martinez J-C, Murdoch K, Feldheim K, Thayer M, and **Wentz-Hunter K.** Oppositely skewed sex ratios of symbiont on host in an African insect-rodent mutualism. *American Naturalist*, in review

Proceedings Manuscript

Wentz-Hunter K. (2009) Life and death decisions: Upper level cancer biology course including civic engagement and creative writing. *Proceedings of ICERI 2009 Conference*, 005162-005173; ISBN:978-84-613-2955-7.

Presentations:

Invited Speaker

2016- *Assessment in the classroom*,

Roosevelt University Mini-Conference on Teaching, Chicago, IL

2014- *Assessment of written communication skills in biology core courses*,
Assessment Micro-Grants

Kelly Wentz-Hunter and Cornelius Watson

2013- *Guiding students through cognitive learning using post-test analysis*,
Roosevelt University Mini-Conference on Teaching, Chicago, IL

2011- *Differential gene expression after anti-oxidant treatment, from eyes to cancer*.

Department of Biological, Chemical, and Physical Sciences, pre-tenure seminar, Roosevelt University, Chicago, IL

2010- *MicroRNA expression during oxidative stress in the trabecular meshwork*
Roosevelt University Faculty Forum, Chicago, IL

2009- *Mission in Progress: Social Justice in the Biology Curriculum at Roosevelt University*

Developing a Good Heart in STEM: The First Summit on Incorporating Social Justice and Service-Learning into the STEM Curriculum, Ithaca, NY

2009- *Featured Model: Life and Death Decisions- Upper Level Cancer Biology Course Including Civic Engagement and Creative Writing*

Science Education and New Civic Engagement and Responsibilities [SENCER] Summer Institute, Chicago, IL

2008- *Learning Scientific Content with Research and Reflection on Life and Death Issues*

48th Annual Meeting of the American Society for Cell Biology

SENCER-SALG assessment over 7 semesters in a core biology course.
SENCER Summer Institute, Chicago, IL
Kelly Wentz-Hunter

2008- *Wnt gene expression in trabecular meshwork cells.*
ASCB Annual Meeting, San Francisco, CA
Rajalekshmy Shyam*, Xiang Shen, Beatrice Yue, Kelly Wentz-Hunter

Invited grant review panel member, NSF Course, Curriculum, and Laboratory Improvement (CCLI) program, Type 1, 2009
Manuscript reviews for *Molecular Vision* 2008-present
Textbook review, *Biology of Cancer* for Elsevier/Academic Press, 2008

Professional Development:

Courses completed

OLED:375 Conflict and Negotiations, Spring 2015
OLED:370 Leadership Development, Fall 2014
OLED:372 Organizational Development, Fall 2014
OLED:320 Introduction to Organizational Communication, Spring 2014
LifeSciTRC, Scholar, APS, 2013
Writing Great Grant Workshop, 2010
Lewis University Summer Institute: Critical thinking, assessment, course development, Romeoville, IL, 2006.
Microinjection Techniques in Cell Biology, Marine Biological Laboratories, Woods Hole, MA, 1999.
Fundamental Issues in Vision Research: Molecular and Cell Biological Approaches, Marine Biological Laboratories, Woods Hole, MA, 1998.

Grants and Fellowships:

Funded

National Association of Advisors for Health Professions Travel Grant, \$944.25, 2016
Assessment of Student Learning Micro-Grant, CO-PI, 2013 \$250
Cellular and Microvesicular miRNA Expression During Oxidative Stress in Trabecular Meshwork Cells,

ARVO Travel Fellowship Grant, Glaucoma Research Foundation, 1999
National Eye Institute Fellowship for Fundamentals in Vision Course, 1998
Sigma Xi Grant-in-Aid of Research, 1993
Finch University of Health Science Graduate Fellowship, 1991-1997

Submitted but not funded

S-STEM: Scholarships in Science, Technology, Engineering, and Mathematics, NSF, co-PI 2011
Serum MicroRNA Biomarkers for Antioxidants in Humans, NIH, co-PI, 2010
Cellular and Microvesicular miRNA Biomarkers of Oxidative Stress, NIH, Recovery Act, Broad Challenge, co-PI, 2009
Characterization of Wnt expression in trabecular meshwork cells, Midwest Eye Bank Science Research Award, PI, 2008
Roosevelt University Graduate Training Fellows in Chicago Public Schools, main author and senior personnel, 2007
CAREER: Identification and characterization of the Wnt signaling pathway in the trabecular meshwork, PI, NSF, 2006

SERVICE

Departmental Service

Leadership Committee, 2012-present
Pre-Professional Advisor, 2011-present
Director of Allied Health programs, 2012-present
Good News Wednesday Newsletter, editor, 2013-present
PULSE, Participant, 2015-present
Faculty Search Committee Ecology, Co-chair, 2016
Faculty Search Committee Ecology, Member, 2015
Study Abroad Supporting Faculty, Marine Biology, Belize, 2015
Faculty Search Committee Microbiology, Member, 2015
First Wave/Summer Bridge, Instructor, 2014, 2016
RU-Pre-Vet Club, Faculty Advisor, 2013-2015
Faculty Search Committee Physiology, Chair, 2013
Study Abroad Supporting Faculty, Conservation Biology, Tanzania 2013, 2014, 2016
RU Pre-Professional Club, Faculty Advisor, 2012-present
Faculty/Student Meet and Greet with Majors, organizer, 2011
RU Biology Facebook Page, Creator and administrator, 2001-present
Career Exploration for Majors, Workshop organizer, 2011-2013
Roosevelt University-Harold Washington College Partnership for STEM Education National Science Foundation STEM Talent Expansion Program Grant, Steering Committee, 2009-2014

Faculty Excellence in Scientific Research Award, 2008
Transformational Learning Recognition of Appreciation, 2008
SENCER Leadership Fellow, 2008-present
Sigma Xi, 2008
Invited Speaker American Society for Cell Biology Annual Meeting, 2008
Annual Student Award for Excellence in Performance, 1993
Medical Pharmacology Honors, Top student, 1993
Kappa Mu Epsilon, 1988
-1991
Illinois Scholar, 1987