#  Jenifer R. Prosperi, PhD

## Work Address

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**Professional Experience**

7/12 – present Assistant Professor, Biochemistry and Molecular Biology, Indiana University School of Medicine – South Bend, South Bend, IN

7/13 – present Adjunct Assistant Professor, Biological Sciences, University of Notre Dame, Notre Dame, IN

**Education**

B.A. Microbiology, Minor in Spanish, Miami University, Oxford, OH, 12/00

Ph.D. Integrated Biomedical Science Graduate Program, The Ohio State University College of Medicine, Columbus, OH, 12/06

**Training Experience**

5/98-8/98 Summer Laboratory Assistant, Children’s Hospital Medical Center, Cincinnati, OH

 Mentor: Dr. Sandra Degen, Ph.D.

1/00-12/00 Undergraduate Laboratory Assistant, Miami University, Oxford, OH

Mentor: Dr. Joseph Carlin, Ph.D.

6/00-8/00 University of Iowa Infectious Disease Summer Undergraduate Research Program, Department of Internal Medicine, University of Iowa, Iowa City, IA

 Mentor: Dr. Jerrold P. Weiss, MD

12/00-6/01 Research Assistant II, Department of Pulmonary Medicine and Immunology, Children’s Hospital, Cincinnati, OH

 Mentor: Dr. Anon Srikiatkhachorn, MD

6/01-12/06 Graduate Research Associate, Integrated Biomedical Science Graduate Program, The Ohio State University College of Medicine, Columbus, OH

Mentor: Dr. Fredika M. Robertson, Ph.D.

1/07-6/07 Postdoctoral Fellow, Department of Surgery, Division of Epithelial Pathobiology, The University of Cincinnati College of Medicine, Cincinnati, OH

 Mentor: Dr. Kathleen H. Goss, Ph.D.

6/07-6/12 Postdoctoral Scholar, Department of Surgery, The University of Chicago, Chicago, IL

 Mentor: Dr. Kathleen H. Goss, Ph.D.

**Teaching Experience**

2000 Undergraduate Teaching Scholar, Department of Microbiology, Miami University, Oxford, OH

 Helped to teach microbial physiology laboratory to college juniors. Attended lab meetings to discuss lab procedures and review class participation, and assisted in reviewing lab reports and lab exams. Prepared a lecture to teach three classes.

2002 Graduate Teaching Assistant, Integrated Biomedical Science Graduate Program, The Ohio State University College of Medicine, Columbus, OH

Assisted in the Research Methods course required for all incoming first year graduate students.

2004-2005 Preparing Future Faculty, Wittenberg University, Springfield, OH (through Ohio State University)

Worked with a faculty member to modify teaching and testing methods, as well as syllabus planning and course organization. Also interacted with the undergraduate students who were interested in a future career in the science field. Taught multiple lectures in general biology.

2008-2011 Course Facilitator, Molecular and Cell Biology, University of Chicago Pritzker School of Medicine, Chicago, IL

Led discussions for problem-based learning Molecular and Cell Biology course for the first year medical students. Was responsible for grading essay-style midterms and final exams.

2011-2012 Discussion Leader, Epithelial Cell Biology, University of Chicago, Chicago, IL

Led research-based discussions on topics related to epithelial cell biology, including EMT, cell migration, and tumor initiation and progression.

2012 Co-coordinator, Introduction to Cancer Biology and Clinical Oncology, University of Chicago, Chicago, IL

2013-present Medical Biochemistry and Molecular Biology 667, Indiana University School of Medicine, South Bend, IN

2014-present Molecular Biology II (BIOS/CHEM 60532), Co-director, University of Notre Dame, Notre Dame, IN

2015, 2017 Introduction to Undergraduate Research (BIOS 28494), Instructor, University of Notre Dame, Notre Dame, IN

**Publications**

**Prosperi, J.R.,** Mallery, S.R, Kigerl, K.A., Erfurt, A.A., and Robertson, F.M. (2004) Invasive and Angiogenic Phenotype of MCF-7 Human Breast Tumor Cells Expressing Human Cyclooxygenase-2. Prostaglandins Other Lipid Mediat, Apr;73(3-4):249-64.

**Prosperi, J.R.,** and Robertson, F.M. (2006) Cyclooxygenase-2 Directly Regulates Gene Expression of P450 Cyp19 Aromatase Promoter Regions pII, pI.3, and pI.7, and Estradiol Production in Human Breast Tumor Cells. Prostaglandins Other Lipid Mediat, Oct;81(1-2):55-70.

Robertson, F.M., Ming-Cheng Cheng, M., **Prosperi, J.R.**, Gaspari, M., Terracciano, R., Green-Church, K.B., Vandre, D.D., Cuda, G., and Ferrari, M. (2006) Nanochips for mining the serum and tumor proteome: novel nanochips for sensitive and reproducible identification of the low molecular weight proteome in serum isolated from mice bearing highly invasive human breast tumor xenografts. Nanomedicine. Dec;2(4):295.

Robertson, F.M., Mallery, S.R., Bergdall-Costell, V.K., Cheng, M, Pei, P, **Prosperi, J.R.**, Ferrari, M. (2007) Cyclooxygenase-2 directly induces MCF-7 breast tumor cells to develop into exponentially growing, highly angiogenic and regionally invasive human ductal carcinoma xenografts. Anticancer Res. Mar-Apr; 27(2): 719-27.

Nijdam, A.J., Zianni, M.R., Herderick, E.E., Cheng, M.M., **Prosperi, J.R.**, Robertson, F.A., Petricoin, E.F., Liotta, L.A., Ferrari, M. (2009) Application of physicochemically modified silicon substrates as reverse-phase protein microarrays. J Proteome Res. 2009 Mar;8(3):1247-54

**Prosperi, J.R.\*,** Becher, K.R.\*, Willson, T.A., Collins, M.H., Witte, D.P., and Goss, K.H. (2009) The APC tumor suppressor is required for epithelial integrity in the mouse mammary gland. J. Cell Phys, Aug;220(2):319-31*.* \*These authors contributed equally to this work.

**Prosperi, J.R.,** and Goss, K.H. (2010) A Wnt-ow of Opportunity: Targeting the Wnt/β-catenin Pathway in Breast Cancer. Curr Drug Targets, Sep;11(9):1074-88.

**Prosperi, J.R.,** Lue, H.H., and Goss. K.H. (2011) Dysregulation of the Wnt Pathway in Solid Tumors. In: Targeting the Wnt Pathway in Cancer. Eds: Kathleen Goss and Michael Kahn, Springer, New York, pp. 81-128*.*

**Prosperi, J.R.** and Goss, K.H. (2011) Wnt Pathway-independent Activities of the APC Tumor Suppressor.  In: Tumor Suppressors, Ed: Susan D. Nguyen, Nova Science Publishers, pp. 105-132.

**Prosperi, J.R.**, Khramtsova, G.F., Khramtosov, A.I., and Goss, K.H. (2011) Loss of APC promotes PyMT-mediated mammary tumorigenesis. PLoS ONE,6(12):e29339.

**Prosperi, J.R.,** and Goss, K.H. (2012) Wnt signaling in lactation. In: Lactation: Natural Processes, Physiological Responses and Role in Maternity, Nova Science Publishers. Eds: Lisa M. Reyes Cruz and Douglas C. Ortiz Gutierrez.

Odenwald, M.A.\*, **Prosperi, J.R.\*,** and Goss, K.H. (2013) Localization of the APC tumor suppressor at cell protrusions is required for breast cancer cell migration and invasion. BMC Cancer, 13:12. PMCID: PMC3556124 \*These authors contributed equally to this work.

Lesko, A.C., Goss, K.H., and **Prosperi, J.R.** (2014) Exploiting APC Function as a Novel Cancer Therapy. Curr Drug Targets, Jan;15(1):90-102*.*

**Prosperi, J.R.** and Goss, K.H. (2014) Editorial: Targeting loss of tumor suppressors for cancer therapeutics. Curr Drug Targets, Jan;15(1):1.

Xu, J., **Prosperi, J.R.**, Choudhury, N., Olopade, O., Goss, K.H. (2015) β-catenin is required for the tumorigenic behavior of triple-negative breast cancer cells. PLoS ONE, 10(2):20117097. PMCID: PMC4319896.

Lesko, A.C., Goss, K.H., Yang, F.F., Schwertner, A., Hulur, I., Onel, K., and **Prosperi, J.R.** (2015) The APC tumor suppressor is required for epithelial cell polarization and three-dimensional morphogenesis. BBA – Mol Cell Res, Mar; 1854(3):711-23. PMCID: PMC4327896.

VanKlompenberg, M.K., Bedalov, C., Fernandez Soto, K., and **Prosperi, J.R.** (2015) APC selectively mediates response to chemotherapeutic agents in breast cancer. BMC Cancer, Jun 7;15:457. PMCID: PMC4458029.

Sawe, R.T., Kerper, M., Badve, S., Li, J., Sandoval-Cooper, M., Xie, J., Shi, Z., Patel, K., Chumba, D., Ofulla, A., **Prosperi, J.R.,** Taylor, K., Stack, M.S., Mining, S., and Littlepage, L.E. (2016) Aggressive breast cancer in western Kenya has early onset, high proliferation, and immune cell infiltration. BMC Cancer, Mar 10;16(1):204. PMID: 26964534.

Lesko, A.L. and **Prosperi, J.R.** (2016) Epithelial Membrane Protein 2 and β1 integrin signaling regulate APC-mediated processes. Exp Cell Res, Nov 24, Epub ahead of print. PMID: 27890644.

Torrorey, R., Mining, S.K., Ofulla, A.V., Patel, K.T., Guyah, B., Chumba, D., **Prosperi, J.R.,** Kerper, M., Shi, Z., Sandoval-Cooper, M.J., Taylor, K., Badve, S., Stack, M.S., and Littlepage, L.E. (2017) Tumor infiltrating leukocyte density is independent of tumor grade and molecular subtype in aggressive breast cancer of Western Kenya, Tropical Medicine and Health, Aug 4;45:19. PMID: 28794686

VanKlompenberg, M.K., Leyden, E., Arnason, A.H., Zhang, J-T, Stefanski, C.D., and **Prosperi, J.R.** (2017) APC loss in breast cancer leads to doxorubicin resistance via STAT3 activation. Oncotarget, *in press.*

**Presentations**

1. You got your PhD – now what? Integrated Biomedical Sciences Graduate Program Annual Retreat, The Ohio State University, Columbus, OH, 1/5/08.
2. APC loss mediates *in vivo* mammary tumorigenesis. Department of Ophthalmology and Visual Science, University of Chicago, Chicago, IL, 9/9/09.
3. The APC tumor suppressor: a key regulator of breast development and cancer. Chicago State University, Chicago, IL, 3/5/12.
4. The APC tumor suppressor: a key regulator of breast development and cancer. University of Notre Dame, Department of Biological Sciences, Galvin Hall, 11/13/12.
5. Designing a Successful Chalk Talk: The Mystery Revealed. University of Chicago Postdoctoral Association, Chicago, IL 1/18/13.
6. Wnt-Independent Functions of APC in Breast Cancer. Florida Atlantic University, Center for Molecular Biology and Biotechnology, Boca Raton, FL 1/29/14
7. **A**pical **P**olarity **C**onductor: How APC Drives the Polar(ity) Express. Valparaiso University, Department of Biology, Valparaiso, IN 2/6/15
8. APC in Breast Cancer: the ABCs of chemoresistance. Butler University, Department of Biology, Indianapolis, IN 2/11/15
9. Adenomatous Polyposis Coli: New functions of an old friend. IUPUI, Department of Biology, Indianapolis, IN 3/13/15
10. APC Mediated Signaling and Proliferation of Breast Epithelial Cells, Harper Cancer Research Institute Research Day, Notre Dame, IN 4/13/15
11. Breast Cancer Program Retreat, IU Simon Cancer Center, Indianapolis, IN 7/30/15
12. University of Notre Dame Breast Cancer Research Symposium, Notre Dame, IN 9/15/15
13. Chicago Cytoskeleton Meeting, Northwestern University, Chicago, IL 9/25/15
14. Bowling Green State University, Toledo, OH 10/23/15
15. IUSM-Indianapolis, Department of Biochemistry and Molecular Biology, Indianapolis, IN 12/21/15
16. Carnegie Mellon University, Department of Biological Sciences, Pittsburgh, PA 9/7/16
APC increases EMP2 levels to maintain apical-basal polarity
17. IUSM, Anatomy and Cell Biology Retreat, Indianapolis, IN 10/29/16
Targeting APC-mediated pathways to circumvent breast cancer chemoresistance
18. UC-Davis Cancer Center, Sacramento, CA 12/8/16
Targeting APC-mediated pathways to circumvent breast cancer chemoresistance
19. Michiana Hematology Oncology, South Bend, IN 2/15/17
Getting back to the basics of breast cancer research
20. Howard University College of Medicine, S. Sharma lab, Washington, DC, 4/19/17

Mechanisms of APC-mediated cisplatin resistance

1. University of Kentucky, Lexington, KY 5/8/17
APC Regulation of Breast Cancer Chemoresistance
2. University of Toledo, CellulART, ASCB regional conference, 9/29/17

EMP2 activation by APC leads to maintenance of epithelial polarity

# Current Research Support

Indiana CTSI, Indiana Drug Discovery Alliance 12/1/15-12/1/17 Identifying small molecule inhibitors to target APC-mutant breast cancer
Role: Principal Investigator

Indiana CTSI, KL2 Young Investigator 7/1/16-6/30/18

Targeting APC-mediated pathways to circumvent breast cancer chemoresistance

Walther Cancer Foundation, Interdisciplinary Interface Training Program 7/1/16-6/30/18
Adenomatous Polyposis Coli Mediates the Cytoskeleton to Regulate Cell Motility
Role: Primary Mentor to A. Lesko (graduate student)

Research Enhancement Grant 11/1/16-10/31/17
Regulation of epithelial polarity and EMP2 by Adenomatous Polyposis Coli
Role: Principal Investigator

Walther Cancer Foundation, Interdisciplinary Interface Training Program 7/1/17-6/30/19
Doxorubicin-loaded Nanoparticles for Treatment in Chemoresistant Breast

Cancer Cells

Role: Primary Mentor to C. Stefanski (graduate student)

# Previous Research Support

Indiana CTSI, Pilot Funding for Research use of Core Facilities 9/1/14-8/31/17
Delineating the Wnt-Independent Functions of the Adenomatous Polyposis Coli Tumor Suppressor

Role: Principal Investigator

Walther Cancer Foundation, Simon Harper Inter-Institutional Research Team 7/1/15-6/30/16\*

STAT3 regulates APC-mediated chemotherapeutic resistance in breast cancer

Role: Principal Investigator

\* NCE through 6/30/17

Navari Family Foundation 9/1/14-8/31/17
Novel Tumor Suppressive Function of Adenomatous Polyposis Coli: Regulation of Polarity and 3D Morphogenesis

Role: Principal Investigator

Navari Family Foundation 9/1/13-8/31/16

APC regulation of Wnt-Independent signaling pathways in breast cancer
Role: Principal Investigator

Walther Cancer Foundation, Seeding Research in Cancer 7/1/15-6/30/16
Engineering approaches to study epithelial cell-cell interactions in cancer progression
Role: Co-Investigator

Research Like a Champion 6/1/14-5/31/16
Elucidating the Therapeutic Potential of Midbrain Pathways that Impact Breast Cancer Metastasis
Role: Co-mentor to Madeline Chandra in the Prosperi laboratory

Walther Cancer Foundation, Engineering Novel Solutions to Cancer’s Challenges at the Interdisciplinary Interface (Postdoctoral Fellowship) 7/1/14-6/30/16
Defining a Molecular Profile Associated with Breast Cancer Metastasis by a Nanopore
Role: Co-mentor to Eamonn Kennedy in Dr. Gregory Timp’s laboratory

Walther Cancer Foundation 7/1/13-6/30/14\*

Adenomatous Polyposis Coli Mediated Signaling, Self Renewal and Differentiation of Breast Epithelial Cells
Role: Principal Investigator

\* No cost extension

American Cancer Society – Institutional Research Grant 6/1/13-5/31/14\*

The Role of APC in Chemotherapeutic Responsiveness of Breast Cancer

Role: Principal Investigator

\* No cost extension

Walther Cancer Foundation 7/1/13 – 6/30/14

Global Partnerships for Discovery – Gene Expression Profiling of a Unique Population of Breast Cancer Patients to Identify Novel Molecular Signatures

PI: M. Sharon Stack

Role: Co-Investigator

American Cancer Society Postdoctoral Fellowship 7/1/10-6/30/12

Impact of APC Loss in Mouse Models of Human Breast Cancer

Role: Principal Investigator

W81XWH-06-1-0421 Prosperi (PI) 3/1/06-12/29/06

Department of Defense Breast Cancer Research Program, Pre-doctoral Traineeship Award

Regulation of human breast tumor angiogenesis and progression mediated by prostaglandin receptors

Role: Principal Investigator

DISS0201738 Robertson (PI) 5/1/03-4/30/05

Susan G. Komen Breast Cancer Foundation

Therapeutic role of COX-2 inhibitors in human breast cancer invasion and metastasis

This study will design an *in vitro* and *in vivo* model to assess the functional role of cyclooxygenase-2 amplification in human breast cancer and the use of specific COX-2 inhibitors as chemotherapeutic agents.

Role: Pre-doctoral fellow

**Committees/Professional Societies**

2012-present Member, American Association for Cancer Research

2012-present Member, American Society for Cell Biology

2010-present Association for Women in Science, Chicago

2002-2012 Associate Member, American Association for Cancer Research

2011-2012 Co-president of Women in Cancer Research at University of Chicago, Chicago, IL

2010-2012 Postdoctoral Association Steering Committee, University of Chicago

 Treasurer and Seminar Committee Chair

2001-2006 Integrated Biomedical Science Graduate Program Recruiting Committee

2001-2002 Co-Founder and Vice-President Integrated Biomedical Science Student

 Organization

1998-2001 Member, American Society for Microbiology

1997-2000 Microbiology Club at Miami University

 2000 Co-President

## Honors/Awards

2016 Indiana CTSI, Young Investigator KL2 Award in Clinical/Translational Research
2015 ASCB/MAC Travel Award, Junior Faculty/Postdoctoral Fellows Career Development
 Workshop
2014-2015 Leadership in Academic Medicine, IUSM, Indianapolis, IN
2012 FASEB/MARC Travel Award, NIGMS Postdoc Workshop, Bethesda, MD
2011 AACR Scholar-in-Training Award, San Antonio Breast Cancer Symposium
2005 Award Winner, 4th Annual Graduate and Post-graduate Research Day, OSU Medical
 Center, The Ohio State University, March 31, 2005.
2005 Award Winner, Alumni Grants for Graduate Research and Scholarship, OSU
 Graduate School, The Ohio State University
2003 Professional Development Fund Travel Award

**University Service**

2017- Research Like a Champion Reviewer, Harper Cancer Research Institute

2016- Chair, Seminar Series, IUSM-SB

2015- Women’s Advisory Council, IUSM

2015- ACS-IRG Reviewer, Harper Cancer Research Institute

2014-2016 Biomedical Research Committee, IUSM

2014- CTSI Grant Reviewer (Core Usage and Predoctoral Fellowships)

2014 IUSCC Core Usage Grant Reviewer

2013- Chair, Laboratory Safety Committee, Harper Hall

2013- Harper Cancer Research Day, Judge (Graduate Students and Postdoctoral Fellows)

2013 Member, Vascular Biology Search Committee

**Notre Dame, Department of Biological Science Service**

2017- Member, Graduate Program and Curriculum Committee

2014- Member, Undergraduate Research and Honors Committee

2014-2017 Member, Departmental Events Committee

2013-2017 Member, Graduate Student Relations Committee

2013-2014 Member, Graduate Curriculum Committee

**Notre Dame, College of Science Service**

2015- Reviewer, College of Science – Summer Undergraduate Research Fellowship

2014- Poster Judge, Graduate Student Union Symposium

**Scientific Community Service**

2016- ASCB Annual Meeting, Abstract Reviewer and Poster Session Coordinator

2015- ASCB Annual Meeting, Roundtable Leader

2015- CSR Early Career Reviewer

2015 NIH ZRG1 Special Study Section, Ad Hoc member

2015 DOD CDMRP/BCRP Breakthrough Award, FY14 Review Committee

2015- Ad Hoc Reviewer, *BBA – Molecular Basis of Disease, Clinical and Experimental Metastasis, Current Cancer Drug Targets, Oncotarget*

2014 University of Alabama Birmingham, Comprehensive Cancer Center, Grant Reviewer

2014- Ad Hoc Reviewer, *Cell and Tissue Research, Cell Transplantation, Tumor Biology*

2013 DOD BCRP Postdoctoral Fellowship Grant Reviewer

2013- AACR Annual Meeting Mentor to Undergraduate Students

2013- Editorial Board, OA Cancer

2012- ACSB CV Review Service Member

2012- Ad Hoc Reviewer, *BMC Cancer, Cancer Cell International, PLoS ONE*

**Trainee Awards**

2017 Anne Arnason, Selected for Undergraduate Oral Presentation at Harper Cancer Research Day

2016 Alyssa Lesko, COMPASS member and travel awardee, ASCB

2016 Monica VanKlompenberg, Honorable Mention for Postdoctoral Poster at IU Simon Cancer Research Day

2016 COS-SURF fellowship awarded to Max Langer (Junior, Science Pre-Professional)

2016 COS-SURF fellowship awarded to Gabrielle Davis (Junior, Science Business)

2016 Alyssa Lesko, Selected for Oral Presentation at Midwest Graduate Research Symposium, University of Toledo

2016 Monica VanKlompenberg, 3rd place for Postdoctoral Poster at Harper Cancer Research Day

2016 Alyssa Lesko, 3rd place for Graduate Student Poster at Harper Cancer Research Day

2016 Anne Arnason, Selected for Undergraduate Oral Presentation at Harper Cancer Research Day

2016 Anne Arnason, Selected for Eli Lily Travel Award at Harper Cancer Research Day

2016 Monica VanKlompenberg, Selected for Eli Lily Travel Award at Harper Cancer Research Day

2015 Alyssa Lesko, American Society for Cell Biology (ASCB) Travel Award for ASCB Annual Meeting ($500)

2015 Alyssa Lesko, University of Notre Dame GSU Travel Award for ASCB Annual Meeting ($250)

2015 Carolyn Ahlers, American Society for Cell Biology (ASCB) Travel Award for ASCB Annual Meeting ($700)

2015 Alyssa Lesko, invited seminar at Midwest Membrane Trafficking and Signaling Symposium (ASCB)

2015 Monica VanKlompenberg, 2nd place for Postdoctoral Poster at IU Simon Cancer Research Day

2015 Monica VanKlompenberg, 3rd place for Postdoctoral Poster at Harper Cancer Research Day

2015 COS-SURF fellowship awarded to Carolyn Ahlers (Sophomore, Science Pre-Professional, declined for personal reasons)

2014 Alyssa Lesko, American Society for Cell Biology (ASCB) Travel Award for ASCB Annual Meeting ($300)

2014 Claire Bedalov, COS-SURF fellowship (Junior, Science Business)

2014 Kaitlyn Simmons, COS-SURF fellowship (Junior, Science Pre-Professional)

2014 Michael O’Brien, Center for Undergraduate Scholarly Engagement (CUSE) summer funding

2014-2015 Katia Fernandez Soto, AACR-Thomas J. Bardos Science Education Award

2014 Alyssa Lesko, University of Notre Dame GSU Travel Award for AACR Annual Meeting ($300)

2014 Alyssa Lesko, IUSCC Travel Award for AACR Annual Meeting ($500)

2013 Andjela Pehar, 2nd place for Undergraduate Poster at Harper Cancer Research Day

2013 COS-SURF fellowship awarded to Andjela Pehar (Junior, Science Pre-Professional, declined for personal reasons)

2013 COS-SURF fellowship awarded to Katia Fernandez Soto (Sophomore, Science Pre-Professional)

**Graduate Student Committees**

2016- Bridgette Drummond, Biological Sciences, University of Notre Dame, Mentor: Rebecca Wingert

2015- Qinfeng Wu, Chemical and Biomolecular Engineering, University of Notre Dame, Mentor: Jeremiah Zartman, PhD

2014- Katherine Richards, Biological Sciences, University of Notre Dame, Mentor: Reginald Hill, PhD

**Community Work**

2017 Harper Community Seminar Speaker, Breast Cancer,

2017 Coaches v Cancer Radio Appearance, South Bend, IN

2016 Guest Speaker, ACS Making Strides Kickoff Breakfast, Mishawaka, IN

2016 Rolling Prairie Elementary School Science Fair, Rolling Prairie, IN

2014- Susan G. Komen for the Cure, Southwest Michigan

2014 Grants Committee Chair, Susan G. Komen for the Cure, Northern Indiana

2014-2016 Mission Chair for Mishawaka Relay for Life, American Cancer Society, Mishawaka, IN

2013- Judge, Northern Indiana Regional Science Fair, Notre Dame, IN

2013- American Cancer Society (volunteer), Mishawaka, IN

2013- Pink Zone Committee, University of Notre Dame, Notre Dame, IN

2013-2014 Susan G. Komen for the Cure (volunteer), Northern Indiana

2008-2012 Susan G. Komen for the Cure, Chicago, IL

2007-2012 American Cancer Society, Chicago, IL and Dupage County, IL

2003-2006 State Science Day Future Physician-Scientist Award (FPSA) Judging Chair

2005-2006 Susan G. Komen for the Cure, Columbus Affiliate, Volunteer Committee

2002-2004 Volunteer, James Cancer Hospital, The Ohio State University, Columbus, OH

2000 Open House Participant, Miami University Department of Microbiology

2000 Undergraduate Volunteer, Southwest Ohio District Science Day

**Career Development Coursework**

2014 Mentoring Undergraduate Research in STEM Disciplines, University of Notre Dame

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