

# Teisha Jane Rowland, Ph.D.

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## Education:

- 2015- **Post-doctoral Fellow, Department of Medicine, Cardiovascular Institute, Adult Clinical Genetics**  
Mentors: Luisa Mestroni, M.D., and Matthew Taylor, M.D., Ph.D.  
University of Colorado Denver (UCD) Anschutz Medical Campus
- 2006-2011 **Ph.D. in Molecular, Cellular, & Developmental Biology**  
Advisor: Prof. Dennis O. Clegg, University of California at Santa Barbara (UCSB)  
Dissertation: Human Pluripotent Stem Cells and the Role of the Extracellular Matrix in Undifferentiated Growth and Differentiation to Retinal Pigmented Epithelium
- 2001-2005 **B.A. in Molecular, Cellular, & Developmental Biology and Humanities** (focuses in English & history)  
Minor in Environmental, Population, and Organismic Biology  
University of Colorado at Boulder (CU-Boulder) (3.69 GPA)

## Research Experience:

- 2015- **Post-doctoral Fellow, University of Colorado Denver Anschutz Medical Campus**  
Researching genetic mechanisms of cardiomyopathies, including high-throughput screening of compound libraries on patient-based induced pluripotent stem cell-derived cardiomyocytes. Funded by the Leducq Foundation, in the Department of Medicine, Division of Cardiology.  
Mentors: Luisa Mestroni, M.D., and Matthew Taylor, M.D., Ph.D.
- 2006-2011 **Ph.D. Graduate Student in Molecular, Cellular, & Developmental Biology**  
Examined expression of integrins in human embryonic stem cells, induced pluripotent stem cells, and derived retinal pigment epithelium to optimize synthetic matrices for directed differentiation.  
Prof. Dennis Clegg's laboratory at UCSB
- 2007 **Completed Introduction to Human Embryonic Stem Cell Culture Methods Course**  
Attended a course on culture techniques for human embryonic stem cells at WiCell Research Institute.
- 2006 **Research Assistant II, University of California at Santa Barbara**  
Project funded by University of California Toxic Substances Research & Teaching Program  
Tested effects of different toxicants on *Tetrahymena* to eventually develop cell lines to detect toxicants.  
Prof. Eduardo Orias' laboratory at UCSB. Supervisor: Eileen Hamilton
- 2005 **Undergraduate Researcher, University of California at Santa Barbara**  
Verified linked scaffolds indicated by happy mapping in the *Tetrahymena thermophila* genome.  
Prof. Eduardo Orias' lab at UCSB. Supervisor: Eileen Hamilton
- 2005 **Undergraduate Researcher, University of Colorado at Boulder**  
Research project on mRNA degradation in mammalian cells for credit and with UROP grant funding.  
Purified decapping proteins and tested effects of dephosphorylation on decapping activity.  
Prof. Jens Lykke-Andersen's lab at CU-Boulder. Supervisor: Christy Fillman
- 1999, 2002 **Volunteer Assistant / Undergraduate Researcher, University of Colorado at Boulder**  
UROP grant-funded genetics research project ("Can *ct344* Be Rescued?")  
Starting with a temperature-sensitive mutant nematode strain, three suppressors were found using mutagenesis and "purified" in backcrosses. Wrote paper on findings and meaning.  
Prof. William B. Wood's lab at CU-Boulder. Supervisor: Dr. Barbara Robertson
- 1998 **Volunteer Assistant, University of Colorado at Boulder**  
Identified and counted insects from freshwater samples.  
Prof. William M. Lewis' lab at CU-Boulder. Supervisor: Dr. James McCutchan

## Research Skills:

Extensive background in molecular, cellular, and developmental biology and next-generation sequencing (NGS) genomics analysis: comprehensive mammalian cell culture; stem cell culture (hESCs, hiPSCs, and MSCs); isolation of stem cells from tissues; immunocytochemistry and fluorescence microscopy; cell adhesion assays; cell proliferation assays; protein expression detection via western blot; NGS data analysis; RNA-Sequencing (RNA-Seq); bioinformatic analysis of NGS and RNA-Seq data; PCR; qRT-PCR; protein purification; human cell transfection; handling of patient tissue samples; precision medicine approaches, including designing high-throughput screening (HTS) of small-molecule compound libraries.

## Publications:

19. Begay, R.L., Graw, S.L., Sinagra, G., Slavov, D.B., Jones, K.L., Gowan, K., **Rowland, T.J.**, Wartchow, E.P., Brun, F., Asamaki, A., Saffitz, J.E., Sweet, M., Garrity, D.M., Gigli, M., Mestroni, L., Taylor, M.R.G. (*in preparation*) Arrhythmogenic Phenotype is Associated with Familial Dilated Cardiomyopathy Caused by Novel Filamin C Truncation Mutations.
18. **Rowland, T.J.**, Graw, L.S., Sweet, M.E., Gigli, M., Taylor, M.R.G., Mestroni, L. (*accepted*) Obscurin Variants in Patients with Left Ventricular Noncompaction. *Journal of the American College of Cardiology*.
17. Daniel, J., Fetter, L., Jett, S., **Rowland, T.J.**, Bonham, A.J. (*accepted*) Electrochemical Aptamer Scaffold Biosensors for Detection of Botulism and Ricin Proteins, in *Methods in Molecular Biology*, Springer.
16. Begay, R.L., Tharp, C.A., Martin, A., Graw, S.L., Sinagra, G., Miani, D., Slavov, D.B., **Rowland, T.J.**, Stafford, N., Sweet, M.E., Brun, F., Jones, K.L., Gowan, K., Mestroni, L., Garrity, D.M., Taylor, M.R.G. (*accepted*) *FLNC* Gene Splice Mutations Cause Dilated Cardiomyopathy. *Journal of the American College of Cardiology: Basic to Translational Science*.
15. Puggia, I., Merlo, M., Barbati, G., **Rowland, T.J.**, Stolfo, D., Gigli, M., Ramani, F., Di Lenarda, A., Sinagra, G. (*accepted*) Natural History of Dilated Cardiomyopathy in Children. *Journal of the American Heart Association*.
14. **Rowland, T.J.**, Mestroni, L., Taylor, M.R.G. (2016) Danon Disease: Dysregulation of Autophagy in a Multisystem Cardiomyopathy. *Journal of Cell Science*, 129(11):2135-43.
13. Puggia, I., **Rowland, T.J.**, Mestroni, L. (*accepted*) Molecular and Cellular Mechanisms in Heart Failure, in *Heart Failure in the Child and Young Adult: From Bench to Bedside*, Elsevier.
12. **Rowland, T.J.**, Clegg, D.O., Gamm, D.M. (*accepted*) Stem Cells and Cellular Therapy, in *Stephen J. Ryan Retina*, 6<sup>th</sup> edition, Elsevier.
11. Fetter, L., Richards, J., Daniel, J., Roon, L., **Rowland, T.J.**, Bonham, A.J. (2015) Electrochemical Aptamer Scaffold Biosensors for Detection of Botulism and Ricin Toxins. *Chemical Communications*, 51:15137-15140.
10. Hossein, N., Zhang, L., Zhu, D., Chader, G., Falabella, P., Stefanini, F., **Rowland, T.J.**, Clegg, D.O., Kashani, A., Hinton, D., Humayun, M. (2015) Stem Cell Based Therapies for Age-Related Macular Degeneration: The Promises and the Challenges. *Progress in Retinal and Eye Research*, 48: 1-39.
9. Clegg, D.O., Hikita, S.T., Buchholz, D.E., **Rowland, T.J.**, Conti, L., Pennington, B., Croze, R., Leach, L., Tsie, M., and Johnson, L.V. (2013) Derivation of retinal pigmented epithelial cells from pluripotent stem cells, in *Stem Cells Handbook*, Second Edition, S. Sell, Ed., Springer.
8. **Rowland, T.J.**, Blaschke, A.J., Buchholz, D.E., Hikita, S.T., Johnson, L.V., Clegg, D.O. (2013) Differentiation of Human Pluripotent Stem Cells to Retinal Pigmented Epithelium in Defined Conditions Using Purified Extracellular Matrix Proteins. *Journal of Tissue Engineering and Regenerative Medicine*, 7 (8): 642-653.
7. **Rowland, T.J.**, Buchholz, D.E., Clegg, D.O. (2012) Pluripotent Human Stem Cells for the Treatment of Retinal Disease. *Journal of Cellular Physiology*, 227 (2): 457-466.
6. **Rowland, T.J.** (2011) Human Pluripotent Stem Cells and the Role of the Extracellular Matrix in Undifferentiated Growth and Differentiation to Retinal Pigmented Epithelium. Dissertation.
5. **Rowland, T.J.**, Miller, L.M., Blaschke, A.J., Doss, E.L., Bonham, A.J., Hikita, S.T., Johnson, L.V., Clegg, D.O. (2010) Roles of Integrins in Human Induced Pluripotent Stem Cell Growth on Matrigel and Vitronectin. *Stem Cells and Development*, 19 (8): 1231-1240.
4. Clegg, D.O., **Rowland, T.J.** (2010) Dan E. Koshland, Jr. *Proceedings of the American Philosophical Society*, 154 (4): 478-483.
3. Buchholz, D.E., Hikita, S.T., **Rowland, T.J.**, Friedrich, A.M., Hinman, C.R., Johnson, L.V., Clegg, D.O. (2009) Derivation of Functional Retinal Pigmented Epithelium from Induced Pluripotent Stem Cells. *Stem Cells*, 27 (10): 2427-2434.
2. Clegg, D.O., Buchholz, D., Hikita, S.H., **Rowland, T.J.**, Hu, Q., Johnson, L.V. (2008) Retinal Pigment Epithelial Cells: Development *in vivo* and Derivation from Human Embryonic Stem Cells *in vitro* for Treatment of Age-Related Macular Degeneration, in *Stem Cell Research and Therapeutics*, Springer.
1. Hamilton, E.P., Dear, P.H., **Rowland, T.J.**, Saks, K., Eisen, J.A., Orias, E. (2006) Use of HAPPY Mapping for the Higher Order Assembly of the *Tetrahymena* Genome. *Genomics*, 88: 443-451.

## Grants/Funding:

- 2016 **Team Science Award, UCD Anschutz Medical Campus, Department of Medicine**  
Title: High-Throughput Screening of Patient iPSC-Derived Cardiomyocytes for Precision Medicine Treatments of Cardiomyopathy. Funding requested: \$40,000 (over one year). Role: Co-PI
- 2016 **Travel Award, UCD Postdoc Association**  
Travel award (\$500) given to a postdoctoral student to present at a scientific meeting.
- 2015- **Leducq Foundation Postdoctoral Fellow**  
Award focuses on training successful junior/postdoctoral researchers.
- 2009-2011 **California Institute for Regenerative Medicine (CIRM) Scholarship**  
Awarded to experienced predoctoral and postdoctoral stem cell researchers. Annual \$25,000 stipend and \$5,000 for research support.
- 2009-2010 **Academic Senate Doctoral Student Travel Grant Award**  
Graduate award (\$1000) for a Ph.D. graduate student to present at a relevant international meeting.
- 2009-2010 **Ellen Schamberg Burley Graduate Award**  
Graduate award (\$500) for a Ph.D. biological sciences graduate student to present at a scientific meeting.
- 2007 **Sigma Xi Grant Award**  
Research award (\$500) given to a Ph.D. graduate student to support a research proposal.
- 2006-2007 **Amgen Fellowship**  
Assists outstanding Ph.D. students in the MCDB program.
- 2002, 2005 **Undergraduate Research Opportunities Program (UROP) Grants**  
Awarded to students with scholarly or creative proposals to work with a faculty sponsor.

## Awards/Honors:

- 2016 **Peer Mentor Award, UCD Graduate School, Broadening Experiences in Scientific Training (BEST)**  
Award given to a postdoctoral researcher for outstanding mentoring of a graduate student.
- 2016 **1<sup>st</sup> Place Oral Presentation in Translational Research, UCD Postdoctoral Research Day**  
Award given at Postdoctoral Research Day 2016 for best oral research presentation.
- 2014 **Next Generation Indie Book Awards Finalist**  
Awards finalist for *Biology Bytes: Digestible Essays on Stem Cells and Modern Medicine* book.
- 2011 **ScienceLine Outstanding Answerer Award in Life Sciences**  
Award given by UCSB for excellence in answering science questions from students K-12.
- 2007-2008 **Jean Devlin Fellowship**  
Graduate award (\$1000) given to a Ph.D. MCDB graduate student for best qualifying exam performance.
- 2005 **Phi Beta Kappa Member**  
Honor society to recognize outstanding academic talent.
- 2001-2005 **Norlin Scholarship**  
Awarded to students with excellent academic or creative abilities.
- 2001-2005 **Dean's List**

## Presented Research:

Rowland, T.J., Hashem, S.I., Jones, J., Adler, E.D., Mestroni, L., Taylor, M.R.G. (2016) Characterization and High-Throughput Drug Screening of a Cardiomyopathy Using Cardiomyocytes from Patient-Derived Induced Pluripotent Stem Cells. American Heart Association Scientific Sessions 2016 in New Orleans, Louisiana.

Rowland, T.J., Graw, S.L., Gigli, M., Taylor, M.R.G., Mestroni, L. (2016) Obscurin Variants in Patients with Left Ventricular Noncompaction. (2016) The American Society of Human Genetics 2016, Vancouver, Canada.

Rowland, T.J., Hashem, S.I., Jones, J., Adler, E.D., Mestroni, L., Taylor, M.R.G. (2016) Characterization of a Cardiomyopathy Using Cardiomyocytes from Patient-Derived Induced Pluripotent Stem Cells. 2016 Keystone Symposia Conference: Heart Failure: Genetics, Genomics and Epigenetics, joint meeting with Cardiac Development, Regeneration and Repair, Snowbird, Utah.

Rowland, T.J., Hashem, S.I., Jones, J., Adler, E.D., Mestroni, L., Taylor, M.R.G. (2016) Characterization of a Cardiomyopathy Using Cardiomyocytes from Patient-Derived Induced Pluripotent Stem Cells. UCD Postdoctoral Research Day 2016, Aurora, Colorado.

Rowland, T.J., Hashem, S.I., Jones, J., Adler, E.D., Mestroni, L., Taylor, M.R.G. (2015) Characterization of a Cardiomyopathy Using Cardiomyocytes from Patient-Derived Induced Pluripotent Stem Cells. UCD Anschutz Medical Campus Department of Medicine Research Day, Aurora, Colorado.

Begay, R.L., Rowland, T.J., Tharp, C.A., Martin, A., Graw, S.L., Sinagra, G., Miani, D., Slavov, D.B., Stafford, N., Sweet, M.E., Brun, F., Jones, K.L., Gowan, K., Mestroni, L., Garrity, D.M., Taylor, M.R.G. (2015) Characterization of Arrhythmogenic Dilated Cardiomyopathy Caused by Novel Filamin C Splice Variant in a Zebrafish Model. The Basic Cardiovascular Sciences Scientific Sessions, New Orleans, Louisiana.

Rowland, T.J., Blaschke, A.J., Buchholz, D.E., Clegg, D.O. (2011) Differentiation of Human Pluripotent Stem Cells to Retinal Pigmented Epithelium using Purified Extracellular Matrix Proteins, 12<sup>th</sup> Annual University of California Systemwide Bioengineering Symposium, Santa Barbara, California.

Rowland, T.J., Blaschke, A.J., Buchholz, D.E., Clegg, D.O. (2011) Engineering Scaffolds for Regenerative Medicine: Differentiation of Human Pluripotent Stem Cells to Retinal Pigment Epithelium Using Purified Extracellular Matrix Proteins, 2011 Institute for Collaborative Biotechnologies Army-Industry Collaborative Conference, Santa Barbara, California.

Rowland, T.J., Blaschke, A.J., Buchholz, D.E., Clegg, D.O. (2010) Differentiation of Human Induced Pluripotent Stem Cells to Retinal Pigment Epithelium Using Purified Extracellular Matrix Proteins, 3<sup>rd</sup> International Congress on Stem Cells and Tissue Formation, Dresden, Germany.

Rowland, T.J., Blaschke, A.J., Buchholz, D.E., Clegg, D.O. (2010) The Function of the Extracellular Matrix in the Differentiation of Human Induced Pluripotent Stem Cells to Retinal Pigment Epithelium, International Society for Stem Cell Research 8<sup>th</sup> Annual Meeting, San Francisco, California.

Rowland, T.J., Blaschke, A.J., Clegg, D.O. (2010) Effects of the Extracellular Matrix on the Differentiation of Human Induced Pluripotent Stem Cells to Retinal Pigment Epithelium, CIRM Grantee Meeting, San Francisco, California.

Rowland, T.J., Miller, L., Hikita, S.T., Blaschke, A.J., Johnson, L.V., and Clegg, D.O. (2009) Integrin Expression and Function in Human Induced Pluripotent Stem Cells and the Ability of Purified Vitronectin to Support Long-Term Undifferentiated Growth, International Society for Stem Cell Research 7<sup>th</sup> Annual Meeting, Barcelona, Spain.

Rowland, T.J. and Clegg, D.O. (2008-2010) Presented multiple posters on using integrin expression and function to develop defined systems for human embryonic stem cells and induced pluripotent stem cells, UCSB Molecular, Cellular, and Developmental Biology Annual Retreat & Symposium, Santa Barbara, California.

Rowland, T.J., Werlin, R.A., Orias, E. (2007) Effects of Different Toxicants on *Tetrahymena* to Develop Cell Lines to Detect Toxicants, University of California Toxic Substances Research & Teaching Program 20<sup>th</sup> Annual Symposium, Santa Cruz, California.

## Teaching Experience:

- 2015 **Biology Affiliate / Part-Time Instructor at Metropolitan State University of Denver**  
Taught General Biology I Lecture and Laboratory (BIO 1080 and 1081) in the spring 2015 semester and helped students master the course materials by preparing lectures, exams, quizzes, syllabi, online homework, and other study aids. Student evaluations for both the lecture and the lab rated the instructor's contribution and course as a whole as being between "Excellent" and "Very Good" on average.
- 2015 **Invited Guest Speaker for Careers in Science Club at UCD Anschutz Medical Campus**  
Lectured on careers in science writing, teaching, and research to graduate students and postdocs.
- 2015 **Invited Guest Speaker for Biology CS 10: Perceptions of Public Health: Communicating Science**  
Lectured on how to effectively communicate health-related science with the general public at UCSB.
- 2014 **Invited Guest Speaker for the Norlin Scholars Program at CU-Boulder**  
Gave readings from the *Biology Bytes* books I authored and discussed process of self-publishing books.
- 2010, 2011 **Invited Guest Speaker for INT 184KF: Research Bench to Paper to Media Outlet: How Much Spin?**  
Shared perspectives and led discussion for an honors seminar series on science and the media at UCSB.
- 2008, 2009 **Lecture Teaching Assistant for MCDB 246: Stem Cell Biology in Health and Disease**  
Lectured on effective proposal writing, presented case studies, served as an ongoing student resource, developing grading rubrics, and graded proposals in this graduate student-level stem cell course at UCSB.

- 2008-2012 **ScienceLine Answerer for Life Science Questions**  
Answer science questions for UCSB internet project from children K-12. Received ScienceLine Answered Award in Life Sciences.
- 2007 **Lecture Teaching Assistant for MCDB1A and MCDB1B: Introductory Biology**  
Wrote and graded exams, held review sessions, led student discussions, and answered student questions at UCSB.
- 2006 **Laboratory Teaching Assistant for MCDB/EEMB 2L: Introductory Biology Laboratory II**  
Instructed two weekly laboratory sections, guiding students through inquiry-based biology experiments. Wrote quizzes, answered student questions, and graded reports at UCSB.
- 2004 **Learning Assistant for Developmental Biology at CU-Boulder**  
Assisted students in mastering the material for MCDB 4650, Developmental Biology, focusing on provoking thoughtful group discussion. Concurrently completed an educational training course to learn additional teaching techniques.

### Professional Science Writing and Editing Experience:

- 2011-2015 **Writer for *Scientific American's* series "Bring Science Home" (select activities)**  
Wrote weekly home science activities for *Scientific American* as a Science Buddies collaborative project. <http://www.scientificamerican.com/education/bring-science-home/>
- 2011-2015 **Scientist/Science Writer for Science Buddies**  
Conceived of, tested, wrote, and edited science project ideas and other K-12 science material, pursued grant and sponsor funding, and developed collaborations with universities (including the Arabidopsis Biological Resource Center at the Ohio State University and the Center for Environmental Implications of Nanotechnology at the University of California, Los Angeles). <http://www.sciencebuddies.org>
- 2014 **Writer for National Public Radio's *Science Friday* Educational Activities (select activities)**  
Wrote home science activities for *Science Friday* as a Science Buddies collaborative project. <http://sciencefriday.com/teacher-resources/index.html#page/full-width-list/>
- 2013 **Author of *Biology Bytes* books**  
Updated, formatted, and self-published two science books for the general public, *Biology Bytes: Digestible Essays on Stem Cells and Modern Medicine* and *Biology Bytes: Digestible Essays on Animals Both Commonplace and Bizarre*. Available at <http://www.amazon.com/Teisha-J.-Rowland/e/B00FLBBORG/>  
Editor: Prof. Andrew J. Bonham
- 2011-2012 **Medical Writer/Editor for the University of Colorado Denver Anschutz Medical Campus**  
Wrote and edited grant proposals, medical manuscripts, protocols, and other documents for the Department of Radiation Oncology. Created and maintained a centralized resource listing funding opportunities, and worked with individual faculty to identify relevant opportunities based on their research, to increase the number and quality of proposals submitted. Gave presentation on writing grant proposals  
Supervisors: Dr. Moyed Miften and Dr. Laurie Gaspar
- 2009-2011 **Creator and Writer of the Santa Barbara Independent's Column "Biology Bytes"**  
Published weekly newspaper articles on different biology topics at <http://www.independent.com/bio>  
Senior Editor: Matt Kettmann
- 2006-2011 **Ph.D. Graduate Student in Molecular, Cellular, and Developmental Biology**  
Wrote and edited abstracts, peer-reviewed publications, protocols, website content, and research summaries, and contributed to technical textbooks. Wrote grant proposals and received funding, including an Ellen Schamberg Burley Graduate Award, Academic Senate Doctoral Student Travel Grant Award, and California Institute for Regenerative Medicine (CIRM) Scholarship, which provided an annual \$25,000 stipend and \$5,000 for research support. Ph.D. Advisor: Prof. Dennis O. Clegg

### Additional Science Writing Experience:

- 2013- **Creator, Writer, and Editor of "Biology Bytes" Blog**  
Publish news and insightful commentary weekly on biology topics at <http://www.biology-bytes.com>
- 2010- **Contributor for *Development's* community blog, "The Node"**  
Invited volunteer blogger for coverage of stem cell news at <http://thenode.biologists.com>
- 2009- **Creator, Writer, and Editor of "All Things Stem Cell" Blog**  
Publish articles on different aspects of stem cell biology at <http://www.allthingsstemcell.com>
- 2009-2015 **Member of the National Association for Science Writers (NASW)**  
Attended the annual NASW meeting for information, exposure, and networking.

- 2011-2015 **Founder and Coordinator of Colorado Science Writers**  
Founded a professional networking group for Colorado science writers and organize periodic meetings.
- 2013-2014 **Creator and Writer of the Butterfly Pavilion's series "Critter Close-Ups"**  
Publish articles on different invertebrates found in Colorado
- 2009 **Contributor for *Nature's Stem Cell Blog*, "The Niche"**  
Volunteer blogger for coverage of the International Society for Stem Cell Research 7<sup>th</sup> Annual Meeting for <http://blogs.nature.com/reports/theniche>
- 2008-2010 **Web Content Editor for UCSB Center for Stem Cell Biology and Engineering Website**  
Wrote, assembled, and edited original textual content and updates for <http://www.stemcell.ucsb.edu>

### **Other Professional Experience:**

- 2016 **Attended CU-Boulder's BioFrontiers Symposium in Boulder, CO**
- 2015-2016 **2016 Postdoctoral Research Day Planning Committee Member**  
Helped organize 2016 Postdoctoral Research Day for the nearly 300 postdocs on the two University of Colorado Denver campuses, including recruiting speakers, sponsors, and postdocs to present research.
- 2014-2016 **Member of the Arvada Sustainability Advisory Committee (Chair: 2015-2016)**  
Helped advise City Council on sustainability initiatives, monitor progress of sustainability goals (including establishing composting in restaurants), and plan and organize the Sustain Arvada Festival.
- 2015- **Science Mentor for the Urban Advantage Science Celebration**  
Served as a science mentor at a capstone event for a year-long program that allows 7<sup>th</sup> grade students from Denver and Aurora to present their science projects.
- 2012- **Judge for the Denver Metro Regional Science and Engineering Fair**  
Served as a judge four times for the fair, including serving as a team captain twice.
- 2015 **Attended American Heart Association Scientific Sessions 2015 in Orlando, FL**
- 2015 **Attended Colorado Clinical and Translational Sciences Institute (CCTSI) Summit in Longmont, CO**
- 2015 **Attended NIH NHLBI Symposium on Cardiovascular Regenerative Medicine in Washington, D.C.**
- 2015 **Attended 249<sup>th</sup> American Chemical Society Meeting & Exposition in Denver, CO**
- 2014 **Attended Colorado Learning and Teaching with Technology (COLTT) Conference at CU-Boulder**  
Attended conference aimed at engaging participants in learning about using technology in classrooms.
- 2014 **Managed Exhibit at the USA Science & Engineering Festival**  
Helped organize and run a booth for Science Buddies at the festival in Washington, D.C.
- 2007-2011 **Graduate Union of Molecular Biology Investigators (GUMBI) Co-President**  
Co-President of graduate student organization.