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# Personal Information

Nationality: US Citizen

DoB:12/28/1966

Married, 2 children (27, 17)

# Academic Qualifications

**2008-09 Masters of Science in Entrepreneurship (MSE)**

Hough Graduate School of Business - Warrington College of Business Administration, University of Florida

**1998-01 Ph.D. in Cellular and Molecular Biology**

Department of Biochemistry and Molecular Genetics, University of Alabama at Birmingham, AL (Dissertation title: Mechanism and evolution of human serum resistance in African trypanosomes; advisor: Dr. Steve Hajduk)

**1993-96 M.Sc. in Biological Sciences, Microbiology**

Department of Biological Sciences, Mississippi State University, MS

(Thesis title: Change of gastrointestinal microflora in cholera-toxin inoculated diarrhea in pigs, comparing treatment effects of oral rehydration solution with and without neosugar; advisor: Dr. Randall Buddington)

**1989-92 B.Sc. with Honors, Zoology**

Institute of Cell, Animal and Population Biology, University of Edinburgh, UK

(Emphasis: Ecology and Psychology; Honors Thesis title: “Comparing and quantifying mother-baby interaction in Humans and Chimpanzees))

**1986-89 Pre‑Diploma in Biology**

Department of Biology, University of Regensburg, Germany

(Emphasis: Electrophysiology)

# Professional Experience

**2016-Now Senior Lecturer** Department of Microbiology and Cell Science, University of Florida, FL

* Microbiology Teaching Lab Coordinator
  + In charge of curriculum development and implementation
  + Managing prep room staff and budget for >1000 students per semester
  + Train all GTAs to teach microbiology lab
  + Train all UTAs to aide teaching microbiology lab
  + Deal with student issues and accommodations from all lab section
* Undergraduate Coordinator
  + Curriculum Development, Chair of MCS UCC
  + Student success - academic, career and personal advising and coaching
  + Academic Assessment Reporting
* ASM Gators – student club faculty advisor
* Science of teaching and learning – evaluation of student learning outcomes, develop and implement new learning modalities, ensure equality and diversity of students
* Serve on a variety of departmental and university wide committees

**2010-2015 Lecturer**, Department of Microbiology and Cell Science, University of Florida, FL

**2010 Program Director, Cade Museum Foundation,** Gainesville, FL

**2008-09 Director, Translational Research, Transgeneron Therapeutics**

Gainesville, FL

**2007-08 Associate Director for R&D, Banyan Biomarkers**

Sid Martin Biotechnology Development Incubator, Alachua, FL

**2004-07 Senior Scientist, Banyan Biomarkers**

Sid Martin Biotechnology Development Incubator, Alachua, FL

**2004 Post-Doctoral Associate**

Department of Neurobiology, Development of Biomarker assays after TBI, PI Dr. Kevin Wang, University of Florida, FL

**2001-04 Post-Doctoral Associate**

Department of Oral Biology, Bacterial Pathogenesis - Immunology, PI Dr. Jeannine Brady, University of Florida, FL

# Pre-graduate Professional Experience

**1998-01 Graduate Research Assistant**

Department of Biochemistry and Molecular Genetics, University of Alabama at Birmingham, AL

**1996-98 Graduate Research Assistant**

Department of Pathobiology, Auburn University, AL

**1995 Research Assistant I**

Department of Biochemistry and Molecular Biology, Mississippi State University, MS

**1993-95 Graduate Teaching/Research Assistant**

Department of Biological Sciences, Mississippi State University, MS

**1992 Research Assistant**

Institute of Cell, Animal and Population Biology, University of Edinburgh, UK

**1990 Research Assistant**

Department of Molecular Biology, Boehringer Mannheim, Penzberg, Germany (Summer Internship)

**1989 Research Assistant**

Human Ethology, Max-Planck Institute, Seewiesen, Germany (Summer Internship)

# Leadership Training and Certifications

**2020 Personal Resilience Practitioner** – in training, Cohort 5/29/20, [Resilience Alliance](https://www.resalliance.org/)

**2019-20** **Organizational Leaders in Agriculture Academy**, selected participant; the POLA (Preparing Organizational Leaders in Agriculture) is a 1 year initiative at the University of Florida to train future leaders in agriculture (not completed due to COVID-19)

**2019 Professional Coach Certification with a specialty designation of Certified Career Coach.** (60 Classroom and 10 Mentor hours). Through the American School of Professional Coaching (asplc.org)

**2019 Strategic Communications Academy**, selected participant, 8 months communication training for UF Leaders and Scholars, College of Journalism, University of Florida https://leadership.hr.ufl.edu/programs/sca/

**2009**  **Project Management Professional (PMP) certification**, license #1253379, through PMI.org

**2007** **Industrial Biotechnology: working in a regulated environment**

Biotechnology Technician Training *(*42 credit hrs)

**2003** **The Science of Clinical Research**, University of Florida - Introduction to Clinical/Translational Research, GMS 7093, 4-week course, sponsored by GCRC

**1998** **Biology of Parasitism**, a molecular approach, Woods Hole, Marine Biological Laboratory, MA (10 week intensive, lab based summer course)

# Funding/Grants

**2020** Distance Education MiniGrant“**A Microbiologist's panacea**” Develop a digital repository with mini lectures, animations and practice test banks that cover all learning objectives for microbiology and cell science competencies available to all students to test their knowledge and to use as remedial tool if their background is weak in some areas. PI, $ 4,500.00

**2020** UF/IFAS Mentoring, Diversity and Inclusion Travel Award “**Rise to 5: Inclusive College Coaching**” – participation in the Florida State University College Life Coaching Institute 2020. This was canceled and the funds were used to fund the Resilience Practitioner training, PI, $ 1,085.28

**2018** Distance Education Mini Grant **“Bites without borders”**Kitchen lab microbiology, funds to purchase a lyophilizer to ship freeze dried cultures to online students, distance education minigrant, PI, $5000

**2018** CALS Instructional Improvement Grant “**Seeing is Believing**”. PI, $7,499.50 for two high quality cameras for microscopes

**2017** **NSF S-STEM Grant:** **Florida Pathways S-STEM Scholarship** for Transfer Students in Microbiology and Cell Science. PI: Dr. Jennifer Drew, Co-PI, $4.795 million.

2017 Microbiology and Cell Science Professional series, continuation, CALS DE Minigrant (UF). Grant is to invite guest speakers to come to UF and talk about their career path in Microbiology. Recording of interviews in video studio classroom setting. This is in conjunction with our Professional Development class. PI Korithosky and Oli $5000

Videos have been added to our careers collection on vimeo https://vimeo.com/groups/157228

2017 The Demo Lab Bench, CALS DE Minigrant (UF). PI, $5000

2017 Integrating Universal Design of Learning principles and ADA compliance for all MCB Lab modules, CALS DE Minigrant (UF). PI, Amanda Ojeda co-PI, $4900

**2016** **Broadening the STEM Pipeline with Research Experiences in Agricultural Science** – NIFA (National Institute of Food and Agriculture) PI: Jennifer Drew; Co-PIs: Eric Triplett, Monika Oli, Sebastian Galindo-Gonzalez. $281,453

2016 A virtual study abroad trip “Medicine, Microbiology and Health” - CALS DE Minigrant (UF). Grant to record and document my study abroad program so our distance education students can have an insight into the international experience. PI $4000

Video has been added to our collection on vimeo https://vimeo.com/groups/378335

2016 Microbes in Action- CALS DE Minigrant (UF). These videos will highlight careers that are available to students with a (micro)biology degree and are used in conjunction with our professional development class. PI Oli and Korithosky $5000

Videos have been added to our careers collection on vimeo https://vimeo.com/groups/157228

2016 Microbiology and Cell Science Professional series -CALS DE Minigrant (UF). Grant is to invite guest speakers to come to UF and talk about their career path in Microbiology. Recording of interviews in video studio classroom setting. This is in conjunction with our Professional Development class. PI Korithosky and Oli $5000

Videos have been added to our careers collection on vimeo https://vimeo.com/groups/157228

**2015** **“Fermentation Revival in the Classroom: Ancient Human Practices as Modern Health Fads”** Teaching Innovation Grant. Association of Public Land Grant Universities, PI (Co-Pi Jennifer Lyles, Frances Marion University), $4000, funded

2015 “Invigorating Agricultural Education - Replenishing the Pipeline for Competitive Research Based Agricultural Workforce” in response to the opportunity “Undergraduate Research and Extension Experiential Learning, Fellowships”. USDA Program Code – A7401. – not funded

2015 2015 Learning Without Borders: “The Global Microbial Challenge“ University of Florida International Center, UF International Center Course Development Grant Recipient, PI, $5000

2013 Catalyst fund “Next-Gen Fusion of Art and Microbiology“. Office of the Provost, UF. Grant to promote and enhance creative activity on campus. PI, $20,000

**2013 CALS distance education minigrant, IFAS UF**, Enhancing the effectiveness of laboratory courses at off-campus locations through targeted audiovisual training videos, PI, $10,000

Videos have been added to our careers collection on vimeo https://vimeo.com/groups/150200

**2012 CALS teaching enhancement minigrant, IFAS UF**, iTextbooks for the UF/IFAS microbiology teaching labs – integrating the future trend of active and integrated learning tools in the classroom, PI, $4000

**2012 CALS teaching enhancement distance education minigrant, IFAS UF,** Enhancing the effectiveness of laboratory courses at off-campus locations through distance education (DE), PI, $5000

**2011 CALS teaching enhancement minigrant, IFAS UF,** Development of a discovery-based, state-of-the-art microbiology laboratory curriculum with ancillary (audio-) visual educational material, PI, $5000

**2011 CALS teaching enhancement minigrant, IFAS UF,** Introducing and teaching PCR applications in the microbiology laboratory, PI, $5000

**2008 NIH,** Investigator initiated grant, “Biomarkers of mild and moderate brain injury”, Co-PI, (PI Linda Papa, MD), $5,000,000, 2008-2013

**2008 Office of Naval Research Grant,** “Analytical and regulatory specifications for a handheld device to diagnose traumatic brain injury”, PI, $971,000, 3-08 to 3-09

**2008 NIH SBIR phase II Grant** # 2R44DK074205-02; “Novel diagnostic and safety biomarkers of liver injury and hepatotoxicity”, PI; $750,000, 2-08 to 2-10

**2007 NIH SBIR phase II Grant** # 2R44NS048685-02 “Development of Novel

Biomarkers for Traumatic Brain Injury”, PI; $750,000, 8-07 to 8-09

**2006 NIH SBIR phase I Grant** #1R43DK074205-01 "Novel Biomarker for liver ischemia/reperfusion-induced injury", PI; $100,000, 8-06 to 7-07

**2005 DoD STTR phase I Grant** # HSRRB No. A-13458, PI; “High-Throughput Brain Injury Proteomic Microassay” $100,000, 8-05 to 3-06

**2005 NIH SBIR phase I Grant** # 1R43 NS051039-01 "Novel Biomarkers for Stroke Injury”; PI; $100,000

# Patents

**2010** Biomarkers of liver injury, **Oli, M.** co-inventor; Patent number 7,645,584

**2008**  Neural Proteins as Biomarkers for Traumatic Brain Injury. **Oli, M.** co-inventor; Patent number: 7396654

**2008** Synaptotagmin and collapsing response mediator protein as biomarkers for traumatic brain injury, **Oli, M.** co-inventor; Application number 20100047817

**2008** Proteolytic biomarkers for traumatic injury to the nervous system, **Oli, M.** co-inventor: Patent number 7,456,027

**2005** Neural proteins as biomarker for traumatic brain injury, **Oli, M.** co-inventor; Patent number 7,396,654

*For more patents see Google patent profile* [*https://www.google.com/?tbm=pts&gws\_rd=ssl#tbm=pts&q=monika+oli*](https://www.google.com/?tbm=pts&gws_rd=ssl#tbm=pts&q=monika+oli)

# Honors/Awards/Fellowships

**2020 Global Infectious Disease (GIDEON) Advisory Board**

**2018 UF International Educator Award** **- Junior Faculty, International Center, UF**

**2018** **Teaching and Student Engagement (TSE) United States Department of Agriculture Food and Agriculture Sciences Excellence in Teaching Award**, from the Association of Public and Land-Grant Universities (APLU), presented at the APLU meeting in November in New Orleans, LA (national award)

**2018**  **IFAS Global Excellence in Internationalizing Student Education Award**, UF

**2018** **Online Education Excellence Award** in the category of “Imaginative or Innovative Approach” for MCB2006 Microbes without borders, course development team Monika Oli, PhD, Amanda Ojeda (TA), Geniveve Howard (TA) and Emma Brady (Instructional designer); UF Award presented by the Office of Faculty Development and Teaching Excellence, UF

**2018 North American Colleges and Teachers of Agriculture** (**NACTA) Excellence in Teaching and Learning with Technology Award**, presented by the North American Colleges and Teachers of Agriculture at the annual conference in June at Iowa State University, Ames IA (national award)

**2018 Champion Award**,The Challenge 2050 project, UF

**2016-2017** ***University of Florida faculty adviser/mentor of the year***

I am the only UF faculty to earn both teaching and advising highest honors from the university, according to records dating back to 2000.

**2016-2017 CALS Undergraduate faculty advising/mentor of the year awards**

**2016 North American Colleges and Teachers of Agriculture** (**NACTA) Educator Award** presented at the Annual Conference of the North American Colleges and Teachers of Agriculture held at the University of Hawaii, Manoa: “Gathering to Cultivate Student Success.” (national award)

**2016** **Faculty Fellow:** Challenge 2050 Project, UF

**2015 Anderson Scholar Faculty Honoree**, nominated by Anderson Scholar Award recipients, UF

**2014 Technology Innovator,** Office of Technology Licensing, UF

**2013-2016 CALS Teaching Council**, founding member, UF

**2013-14 CALS Roche Teaching Fellow**, UF

**2013-Now Academy of Teaching Excellence member**, CALS, UF

**2012-13 *University of Florida Teacher of the Year***

**2012-13** **CALS Teacher of Distinction**, CALS Undergraduate Teaching Award, College of Agriculture and Life Science, IFAS, UF

**2012 Undergraduate Teaching Faculty Award**, Microbiology and Cell Science Department, in connection with the150th Anniversary of the Morrill Act was recognized for efforts to bring affordable higher education to Florida students who otherwise might not have access to a BSc STEM degree from a major research University, Gainesville, FL

**2009** **BioNOW participant** - Biotechnology Network of Women, Dec 3-4, 2009. San Francisco, CA. Organized by the Biotechinstitute. http://www.biotechinstitute.org/node/10

**2004** **AADR Pfizer Hatton award**, 33rd Annual American Association for Dental Research, Honolulu, HI (First place)

**2004** **IADR Unilever Travel Award**; International Association for Dental Research, Honolulu, HI

**2003** College of Dentistry, University of Florida, First Annual UFCD Research Day Conference; Gainesville, FL (First place)

**2001** **Presidents Award**, Southeastern Branch American Society for Microbiology, Birmingham, AL (First Place)

**2001** **Pittman Award** for outstanding research, Department of Biochemistry and Molecular Genetics, UAB, AL

**2001** **International Student Academic Excellence Award**, UAB, AL

**2001** **Graduate Student Research Day** Presentation Award, UAB, AL (First place)

**1998** **Scholarship Awardee for “Biology of Parasitism”** Marine Biological Laboratory (MBL), Woods Hole, MA (for 10-week intensive summer course)

**1998**  **Auburn University Presidential Fellowship**, Auburn, AL

**1996** **Graduate student award**, 49th annual meeting of the Animal Disease Research Workers in the Southern States, Auburn, AL (First place)

# Publications

* UG = author was an undergraduate student at the time research was conducted
  + 25 peer-reviewed publications (https://scholar.google.com/citations?user=py4TaO8AAAAJ&hl=en)
* Fermentation Revival in the Classroom: Investigating Ancient Human Practices as CUREs for Modern Diseases. 2020. Jennifer K. Lyles, J. K. and **Oli, M. W.,** in preparation for FEMS Microbiology
* The Student-Centered Classroom: Feed Your Microbiome – The New Gut Feeling. 2020. Jennifer K. Lyles, J. K. and **Oli, M. W.,** in preparation for FEMS Microbiology
* Morales-Aparicio, J. C. *UG*, Oli M. W., A Novel Study Abroad Program “Medicine, Microbiology and Health”: Impact and importance. 2020. In preparation for NACTA
* Schirmer, A. *UG*., Sessions, R., Gravenstein, N., Rand, K., **Oli, M.,** Cooper, LA., Sappenfield, J. Isolation Gowns as a Potential Work Hazard 2020. Annals of Work Exposures and Health, <https://doi.org/10.1093/annweh/wxaa047>
* Drew J., Ardissone, A., Oli, M., Rice K., Galindo-Gonzalez S., Urrets M., Wysocki, A. and Triplett, E. Successful integration of face-to-face bootcamp lab courses in a hybrid online STEM program. 2019. Journal of Microbiology and Biology Education, 20(3): 20.3.49. doi: [10.1128/jmbe.v20i3.1769](https://dx.doi.org/10.1128%2Fjmbe.v20i3.1769), PMID: [31768212](https://www.ncbi.nlm.nih.gov/pubmed/31768212)
* [Schirmer A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Schirmer%20A%5BAuthor%5D&cauthor=true&cauthor_uid=29524662). *UG*, [Swan C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Swan%20C%5BAuthor%5D&cauthor=true&cauthor_uid=29524662)., [Hughes S. J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hughes%20SJ%5BAuthor%5D&cauthor=true&cauthor_uid=29524662)., [Vasilopoulos T](https://www.ncbi.nlm.nih.gov/pubmed/?term=Vasilopoulos%20T%5BAuthor%5D&cauthor=true&cauthor_uid=29524662).,[**Oli M**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Oli%20M%5BAuthor%5D&cauthor=true&cauthor_uid=29524662)**.,** [Chaudhry S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chaudhry%20S%5BAuthor%5D&cauthor=true&cauthor_uid=29524662). *UG*, [Gravenstein N](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gravenstein%20N%5BAuthor%5D&cauthor=true&cauthor_uid=29524662), [Giordano C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Giordano%20C%5BAuthor%5D&cauthor=true&cauthor_uid=29524662). Break Scrub to Take That Phone Call? 2018 [J Am Coll Surg.](https://www.ncbi.nlm.nih.gov/pubmed/?term=Break+Scrub+to+Take+That+Phone+Call%3F) 2018 Mar 7. pii: S1072-7515(18)30178-9. doi: 10.1016/j.jamcollsurg.2018.03.002. [Epub ahead of print]
* Drew, J. C., **Oli, M. W.,** Rice, K. C., Ardissone, A. N., Galindo-Gonzalez, S., Sacasa, P. R., Belmont, J. H, Wysocki, A. F., Rieger, M. and Triplett, E. W. 2015. Development of a Distance Education Program by a Land-Grant University Augments the 2-Year to 4-Year STEM Pipeline and Increases Diversity in STEM. *PLoS ONE*, *10*(4), e0119548. doi:10.1371/journal.pone.0119548
* Davids, B. I. *UG*, Davidson, M. J. *UG*, TenBroeck, S. H., Colahan, P. T., **Oli, M. W.** 2015. Efficacy of Mechanical versus Non-Mechanical Sterile Preoperative Skin Preparation With Chlorhexidine Gluconate 4% Solution, Veterinary Surgery, Jul. 44(5):648-52, DOI:10.1111/vsu.12335. Epub 2015 April 24.
* Robinette R. A., Heim K. P., **Oli M. W.**, Crowley P. J., McArthur W. P., Brady L. J. 2014. Alterations in immunodominance of *Streptococcus mutans* AgI/II: lessons learned from immunomodulatory antibodies. Vaccine. 9;32(3):375-82
* **Oli, M.W.;** Ottoo, H. and Brady L.J. 2012. Functional amyloid formation in the oral pathogen *S. mutans*; Microbiology.158(12):2903-16. doi: 10.1099/mic.0.060855-0. Epub 2012 Oct 18.
* Palmer S.R., Crowley P.J., **Oli M.W.**, Ruelf M.A., Michalek S.M. and Brady L.J. 2012. YidC1 and YidC2 are functionally distinct proteins involved in protein secretion, biofilm formation and cariogenicity of *Streptococcus mutans*. Microbiology. 158(7):1702-12. doi: 10.1099/mic.0.059139-0. Epub 2012 13.
* Robinette, R. A., Oli M. W., McArthur W. P., and Brady L. J. 2011. A therapeutic anti-*Streptococcus mutans* monoclonal antibody used in human passive protection trials influences the adaptive immune response. Vaccine **29:**6292-6300
* Liu M.C., Akinyi L., Scharf D., Mo J., Larner S.F, Muller U., **Oli M.W.**, Zheng W., Kobeissy F., Papa L., Lu X.C., Dave J.R., Tortella F.C., Hayes R.L., Wang K.K. 2010. Ubiquitin C-terminal hydrolase-L1 as a biomarker for ischemic and traumatic brain injury in rats. Eur J Neurosci. 31(4):722-32.
* Papa L., Akinyi L., Liu M.C., Pineda J.A., Tepas J.J. 3rd, **Oli M.W.,** Zheng W., Robinson G., Robicsek S.A., Gabrielli A., Heaton S.C., Hannay H.J., Demery J.A., Brophy G.M., Layon J., Robertson C.S., Hayes R.L., Wang K.K. 2010. Ubiquitin C-terminal hydrolase is a novel biomarker in humans for severe traumatic brain injury. Crit Care Med. 38(1):138-44.
* Robinette R., **Oli M.,** McArthur W., and Brady L. J.; 2009. Beneficial Immunomodulation by *Streptococcus mutans* anti-P1 Monoclonal Antibodies is Fc-independent and Correlates with Increased Exposure of a Relevant Target Epitope. J Immunology, 183(7):4628-38.
* [McGinn M.J](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22McGinn%20MJ%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Kelley B.J](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Kelley%20BJ%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Akinyi L](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Akinyi%20L%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [**Oli M.W**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Oli%20MW%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Liu M.C](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Liu%20MC%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Hayes R.L](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Hayes%20RL%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Wang K.K](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Wang%20KK%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Povlishock J.T](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Povlishock%20JT%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus).; 2009. Biochemical, structural, and biomarker evidence for calpain-mediated cytoskeletal change after diffuse brain injury uncomplicated by contusion. [J Neuropathol Exp Neurol.](javascript:AL_get(this,%20'jour',%20'J%20Neuropathol%20Exp%20Neurol.');) 68(3):241-9.
* Papa?code=200B, L., Robinson?code=200B, G., **Oli, M.,**Pineda?code=200B, J., Demery, J., Brophy, G., Robicsek, S. A., Gabrielli, A., Robertson, C. S., Wang, K. K., Hayes, R. L.?code=200B 2008. Use of biomarkers for diagnosis and management of traumatic brain injury patients. [Expert Opinion on Medical Diagnostics](http://informahealthcare.com/loi/edg). 2(8): 937-945.
* Liu M. C., Akinyi L., **Oli M.W**., Zheng W.R., Larner S. F., Kobeissy F., Papa L., Lu X-C, Dave J. R., Tortella F. C., Hayes R. L., and Wang K. 2008. Ubiquitin-C-Terminal Hydrolase as a Novel Biomarker for Ischemic and Traumatic Brain Injury in Rats. J. Cereb. Blood Flow Metab., submitted
* Crowley P.J., Seifert T.B., Isoda R., van Tilburg M., **Oli M.W**., Robinette R.A., McArthur W.P., Bleiweis A.S., and Brady L.J.; 2008. Requirements for Surface Expression and Function of Adhesin P1 from *Streptococcus mutans.* Infection and Immunity, 76(6):2456–2468
* Kobeissy F.H., Sadasivan S., **Oli M.W.,** Robinson G., Larner S.F., Zhang Z., Hayes R.L. and Wang K.K.W.; 2008. Neuroproteomics and Systems Biology-Based Discovery of Protein Biomarkers for Traumatic Brain Injury and Clinical Validation. Proteomics Clinical Application, Proteomics **2(10-11), Pages 1467 – 1483. Special Issue:**Biomarker Discovery
* Nobbs A., Vajna R.M., Johnson J.R., Zhang Y., Erlandsen S. L., **Oli M.W.**, Kreth J., Brady L.J., and Herzberg M. C.; 2007. Consequences of a sortase A mutation in *Streptococcus gordonii*, Microbiology. 153(Pt 12):4088-97.
* Ottens, A.K., Kobeissy, F.H., Fuller, B.F., Liu, M.C., **Oli, M.W**., Hayes R.L., and Wang, K.K.W.; 2007. Novel neuroproteomic approaches to studying traumatic brain injury. Prog Brain Res, 161:401-418. Review
* [McArthur W.P., Rhodin N.R., Seifert T.B., Oli M.W., Robinette R.A., Demuth D.R., Brady L.J.](http://www.ncbi.nlm.nih.gov/pubmed/17535300?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVDocSum); 2007. Characterization of epitopes recognized by anti-Streptococcus mutans P1 monoclonal antibodies. FEMS Immunol Med Microbiol. 50(3):342-53.
* Faulkner SD, Oli MW, Kieft R, Cotlin L, Widener J, Shiflett A, Cipriano MJ, Pacocha SE, Birkeland SR, Hajduk SL, McArthur AG.; 2006. In vitro generation of human high-density-lipoprotein-resistant Trypanosoma brucei brucei. Eukaryot Cell. 5(8):1276-86.
* Svetlov S., Xiang W., **Oli M.,** Huang G., Hayes R.L., Ottens A.K., Wang K.K.W. 2006. Identification and preliminary validation of novel biomarkers of acute hepatic ischemia/ reperfusion injury using dual-platform proteomic/degradomic approaches. Biomarkers, 11(4): 355-369
* **Oli M.W., Cotlin L., Shiflett A. M. and** Hajduk S. L. 2006. Serum resistance-associated protein blocks lysosomal targeting of trypanosome lytic factor in *Trypanosoma brucei*, Eukaryotic Cell, 5(1): 132-139.
* Wang K.K.W., Ottens A.K., Liu M.C., **Oli M.W.**, Lewis S.B., Tortella F.C., Hayes R.L. 2005. Proteomic identification of biomarkers of traumatic brain injury. Future drugs: Expert Rev Proteomics. 2(4):603-14.
* **Oli, M.W.**,N.R. Rhodin W.P. McArthur and L.J. Brady. 2004. Monoclonal antibody-mediated modulation of the humoral immune response to *Streptococcus mutans* P1: the effect is dependent on the monoclonal antibody. Infect Immun. 72(12):6951-60.
* **Oli M.W.**, W.P. McArthur and L.J. Brady. 2005. Physiological evaluation of agglutinin-mediated *Streptococcus mutans* adherence by BIAcore assay. Journal of Microbial Methods, 65(3): 503-511.
* Rhodin N.R., Van Tilburg M.L.J.A., **Oli M.W.**, McArthur W.P. and Brady L.J.; 2004. Further characterization of immunomodulation by a monoclonal antibody against *Streptococcus mutans* antigen P1, Infection and Immunity, 72(1):13-21.
* Grab, D. J., Lonsdale-Eccles J.D., **Oli M. W.**, and Corbeil L. B.; 2001. Lactoferrin binding by *Tritrichomonas fetus*. Parasitology International, J Parasitology, 87(5):1064-1070.
* **Oli, M.W**. and Buddington R.K. 1998. Evaluation of fructooliogosaccharide supplementation of oral electrolyte solutions for treatment of diarrhea, Digestive Disease and Sciences, 43(1):138-147.

# Book Chapters and Popular Articles

* **Oli, M.W**., Wang, K. K., Hayes, R., Robinson, G. R., 2009. *Traumatic brain injury biomarkers: From pipeline to clinical validation.* Neuroproteomics. *Methods in Molecular Biology* (Humana Press, Inc), 566:293-302.
* Larner, S. F., Wang K. K.W., **Oli M.,** Robinson G., Gabrielli A., Robicsek S. A., Hayes R. L., 2008 *Biomarkers: The Future of Diagnosis and Therapy for Traumatic Brain Injury*. International Brain Injury Association. Issue 2.
* Robinson G., **Oli M.,** Hayes R. L., Wang K. K. W.; 2005. *Getting a Hand from Uncle Sam: Small Biotechs Find Alternative Funding***.** Genomics and Proteomics, November Issue
* **Oli, M**., Chandra, G., Petschow, B. W. and Buddington, R.K., 1996. *Changes in pig intestinal structure and functions and resident microbiota induced by acute secretory diarrhea*. In: Advances in Swine in Biomedical Research (M.Tumbelson and L. Schook, eds.), Plenum Press, New York, pp.769-777

# Meetings/Symposia

*UG = author was an undergraduate student at the time research was conducted*

2020 Urrets M., **Oli, M.,** Drew J., Triplett, E. and Galindo-Gonzalez S. Exploring students’ achievements and perceptions in two formats of a laboratory undergraduate course. Roundtable session titled, “Exploring New Possibilities for Academic Integration in STEM in Postsecondary Education” American Educational Research Association annual conference. San Fancisco, CA (round table)

2019 Ahrens A., Drew J., Ardissone A., **OliM.,** IraniT., and Triplett E.. Microbiome-based CURE at University of Florida leads to a quest to understand and mitigate student depression. Transforming STEM Higher Education. Association of American Colleges & Universities, Chicago (poster)

2019 **Oli, MW,** Rice, KC, Drew, JC, Ardissone, AN, and Triplett, EW, Perspectives on Hybrid Bootcamp Labs – Curriculum Development. Florida ASM meeting, Clearwater, FL (poster)

2019 Drew J., **Oli, MW.,** Ahrens, A. and Triplett, E. Building Capacity for CUREs at scale: The Great Florida Spitting Contest CALS Teaching Enhancement Symposium, Gainesville, FL. (presentation)

2019 **Oli, MW**. and Ojeda, A. Invigorate the Undergraduate Teaching Experience. CALS Teaching Enhancement Symposium, Gainesville, FL. (presentation)

2019 **Oli, MW**. and Ojeda, A. Invigorate the Undergraduate Teaching Experience, NACTA conference, Twin Falls, ID (presentation)

2019 **Oli, MW**. and Oli, MK. Teaching and Learning with Technology, NACTA conference, Twin Falls, ID (poster)

2019 Drew J., Ardissone, A., **Oli, M.,** Rice K., Galindo-Gonzalez S., Urrets M., Wysocki, A. and Triplett, E. Bootcamp Microbiology Labs: An Approach to Deliver Essential Labs in Online Programs, NACTA conference, Twin Falls, ID (presentation)

2019 **Oli, M.**; Globalizing the STEM Curriculum through Children’s Story Books, Preparing Students for Global Workplace, New Smyrna Beach, FL (presentation)

2019 Urrets-Zavalia, M; Galindo-Gonzalez,S; Drew, JC; Ardissone, AN; **Oli, MW**; Rice, KC; Triplett EW. A novel Educational Experience: Hybrid Lab Course in a Microbiology Major. American Association of Agricultural Education Southern Region Conference. Birmingham, AL (presentation)

2019 **Oli M.** and Delpech P. Global Learning Spaces – Interface 2019 learning beyond 4 walls, Office of Faculty Development and Teaching Excellence, April, UF (presentation)

2018 Association of Public & Land-Grant Universities (APLU) Annual meeting, November, New Orleans, LA (attendee, award winner)

2018 Engage 2018 – conference for higher education innovators (TopHat Conference), October, Chicago, IL (attendee)

2018 Drew, J., **Oli M.,** Rice.K., Ardissone A., Galindo-Gonzalez S., Urrets-Zavalia, M and Triplett E.; Delivering an Essential Face-to-Face Lab in a Hybrid Online STEM Program. 2018 STEM Powered – Florida SUS Faculty Symposium, October, Gainesville, FL (presentation)

2018 Morales Aparicio J. *UG*, Milne-Davis B. *UG*, Huber, M. *UG*, Hall C. *UG*, **Oli M.**; A Novel Study Abroad Program “Medicine, Microbiology and Health”: Impact and Importance. ASM Microbe, June, Atlanta, GA (poster)

2018 Drew, J., **Oli M.,** Rice.K., Ardissone A., Galindo-Gonzalez S., Triplett E.; Broadening Participation in STEM Through Microbiology Bootcamp Labs. ASM Microbe Atlanta, GA (poster)

2018 Scott, S. *UG*, Hernandez M. *UG*, Patterson S. *UG* and **Oli, M.** Effect of Imidacloprid on Melanization Immunity in Relation to Colony Collapse Disorder.Department of Microbiology and Cell Science MCB3023L project 8th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2017 **Oli M.** and Brendemuhl J. Academic Misconduct - Two Sides of the Coin. CALS Teaching Enhancement Symposium, Gainesville, FL. (presentation)

2017 Schirmer, A. *UG*; Sessions, R., Gravenstein, N., Rand K., **Oli, M.,** Cooper L. A., Sappenfield, J.. Easy Transmission of *Staphylococcus epidermidis* Through Commonly Used Non-Sterile Overhead Isolation Gowns, UF Health Patient Safety & Quality Week (poster)

2017 Schirmer A. *UG*; Madelynn Lovelady, M. *UG*; **Oli, M.,** Gravenstein, N.; Sessions, R., Sappenfield, J., Operating Room Computer Keyboards: Is There a Less Contaminated Option? The Anesthesiology annual meeting, http://www.asaabstracts.com/strands/asaabstracts/abstract.htm?year=2017&index=8&absnum=5117

2016 Schirmer A. *UG*; Sessions R., Gravenstein N., Rand K., **Oli M.,** Cooper LA, Sappenfield, J. Easy Transmission of *Staphylococcus epidermidis* Through Commonly Used Non-Sterile Overhead Isolation Gowns. American Society of Anesthesiologists (ASA) Conference: Chicago, IL (poster)

2016 Drew, J., Triplett E., **Oli M.** and Rice, K. Using analytics to enhance and broaden participation throughout the Microbiology and Cell Science curriculum. CALS Teaching Enhancement Symposium, Gainesville, FL. (presentation)

2016 Lyles, J and **Oli, M.** Fermentation Revival in the Classroom: Ancient Human Practices as Modern Health Fads. NACTA Conference, June 21-24 held at the University of Hawaii – Manoa, HI (poster)

2016 **Oli, M.** and Lyles, J. The student-centered classroom: Feed your microbiome - the new gut feeling. NACTA Conference, June 21-24 held at the University of Hawaii – Manoa (poster)

2016 **Oli, M.** Student learning through research projects. UF Interface teaching conference: ”Tips, Tools, and Timesavers”, Gainesville, FL. (interactive session)

2016 Azadikhah, O. *UG*, Joseph, R. *UG*, Kampouris, D. *UG*, Schmidt, E. *UG* and **Oli, M.** Comparing the Microbial Growth and Composition of Goat, Almond, and Cow milk and their Kefir Fermentation Products. 6th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2015 Rice, K. and **Oli, M.** Development and Implementation of Hands-On Lab Learning Options for DistanceEducation Microbiology Students. CALS Teaching Enhancement Symposium, Gaiensville, FL. (interactive presentation)

2015 Leete, S. *UG*, Oyola-Guzman, D. *UG*, Hyunh, J. *UG*, Wang, J-S. *UG* and **Oli, M**. Survey of Residential Mold in Student Housing. 5th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2015 Hannah, J. *UG*, Phillips, H. *UG*, and **Oli M.** The effect of BPA on the indicator organism *Brachionus calyciflorus*. 5th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2015 Ng, Y. *UG*, Rahal, S. *UG*, **Oli, M.**, and Morel, L. Quantifying the Intestinal Dysbiosis associated with Systemic Lupus Erythematosus in the Mouse Model. 5th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2015 Campbell, C. *UG*, Prado, A. *UG* and **Oli, M.** The effect of pesticide on root nodule microbes. 5th Annual Microbiology and Cell Science Undergraduate Research Symposium (poster)

2013 Davids, D. *UG*, Davidson, M. *UG*, Oli, M., and Ten-Broeck, S. Comparison of the Efficacy of Static Versus Mechanical Chlorhexidine Skin Preparation, Florida Undergraduate Research Conference (FURC), Gainesville FL (poster)

2010 Robinette, R.; **Oli, M.;** McArthur, W. P. and Brady, L. J.Alterations in Immunodominance of the *Streptococcus mutans* P1 Adhesin: Lessons Learned from Immunomodulatory Monoclonal Antibodies; American Association of Immunologists, Baltimore (poster)

2008 Robicsek S.; HayesR.L.; Wang K.K.W.; **Oli M. W.**; RobinsonG.; Wishin J.; Layon A.J.; Gabrielli A.; BANDITS: A Novel Clinical Platform to Validate the Utility of   
Potential Brain Injury Biomarkers. Society of Critical Care Medicine (SCCM) conference Honolulu HI (poster)

2007 **Oli, M.W**., Robicsek, S., Gabrielli, A., Layon, A. J., ,Wishin, J., Akinyi, L., Mo, J., Scharf, D., Oli, M., Tortella, F. , Wang, K. K., Hayes, R., Robinson, G. R., Development and validation of novel brain biomarker assays. Advanced Technology Casulty Care (ATACCC), St. Pete Beach, FL (poster)

2007 Liu, M. C., **Oli, M.,** Akinyi, L., Zheng, W., Kobeissy, F., Papa, L., Dave, J. , Tortella, F., Hayes, R. Ubiquitin C-terminal hydrolase as Biomarker for ischemic and traumatic brain injury. The 25th Annual Neurotrauma Syposium (poster)

2007 Robicsek, S., Gabrielli, A., Layon, A. J., Wishin, J., Akinyi, L., Mo, J., Scharf, D., Oli, M., Tortella, F. , Wang, K. K., Hayes, R., Robinson, G. R., **Oli, M.W.** BANDITS: A Novel Clinical Platform to Validate the Utility of Potential Brain Injury Biomarkers: Case Study #. The 25th Annual Neurotrauma Syposium (poster)

2006 Barton N. W., Stracher A., Badalamente M. A., Carver T., Michele T., DeVos L., Kesner L., Deng A., Wang K., **Oli M**. Biological effects of a potent, muscle-targeted, orally bioavailable calpain inhibitor (C101) for Duchenne Muscular Dystrophy (DMD). American Academy of Neurology, San Diego, CA (oral presentation)

2005 **Oli M. W.,** Akinyi L., Deng A., Scharf D., Liu M. C., Akale, V., Hayes R. L. and Wang K. K. W. Spectrin breakdown products as pathway-specific TBI biomarkers for preclinical and clinical research and drug development. 4th international conference on biochemical markers for brain damage Boothbay Harbor, ME (poster)

2005 Faulkner S., R. Kieft, **M. Oli**, S. L. Hajduk. *In vitro* selection for human serum resistance in *Trypanosoma brucei brucei,* Kinetoplastid Molecular Cell Biology Meeting, Marine Biological Laboratory, Woods Hole, MA

2004 **Oli M. W.**, N. R. Rhodin, W.P. McArthur and L.J. Brady. Functional aspects of immunomodulation by anti-*Streptococcus mutans* monoclonal antibodies. IADR/AADR/CADR 82nd General Session, Honolulu, Hi *(award winning poster)*

2004 Vajna R. M., **M. W.** **Oli,** L.J. Brady and M. C. Herzberg. Consequences of sortase mutation in *Streptococcus* gordonii V288. IADR/AADR/CADR 82nd General Session, Honolulu, Hi

2004 Brady L.J., **M. W. Oli,** and W.P. McArthur. Physiological evaluation of agglutinin-mediated *Streptococcus mutans* adherence by BIAcore assay. IADR/AADR/CADR 82nd General Session, Honolulu, Hi

2003 **Oli, M.** Surface plasmon resonance applications for dental research: the example of *Streptococcus mutans* interaction with salivary agglutinin (oral presentation). University of Florida College of Dentistry First Annual UFCD Research Day, Gainesville, FL *(award winning presentation)*

2002 Rhodin N. R., B. M. Correa, **M. W. Oli**, W.P. McArthur and L.J. Brady. Effect of an Immunomodulatory Monoclonal Antibody (Mab) on the Immmune Response against *Streptococcus mutans* Cell Surface Adhesin P1 (poster presentation). Southeastern Branch of the American Society for Microbiology Annual Meeting, UFL, Gainesville, FL, *(award winning poster)*

2002 **Oli M. W.,** A. Shiflet, and S. Hajduk. Serum Resistance Associated Protein Blocks Lysosomal Targeting of Trypanosome Lytic Factor in African Trypanosomes; Molecular Parasitology Meeting, Woods Hole, Woods Hole, MA *(award winning poster)*

2002 Rhodin N. R., B. M. Correa, **M. W. Oli**, W.P. McArthur and L.J. Brady. Measurement of serum IgG responses against defined regions of P1 in mice mucosally immunized with *Streptococcus mutans* coated with an immunomodulatory monoclonal antibody (MAb). 11th Congress of Mucosal Immunology, Orlando, FL

2001 **Oli, M. W.** and S. Hajduk. Serum Resistance Associated Protein Blocks Lysosomal Targeting of Trypanosome Lytic Factor in African Trypanosomes (oral presentation); Southeastern Branch of the American Society for Microbiology Annual Meeting, UAB, Birmingham, AL, *(award winning presentation)*

2001 Hajduk, S. L., S. Faulkner, **M.** **Oli,** A. Pahwa, D. Schiele, M. Shimamura. Human Innate Resistance to Infection by African Trypanosomes; Southeastern Branch of the American Society for Microbiology Annual Meeting, UAB, Birmingham, AL

2001 Faulkner S., **M. Oli,** and S. Hajduk, Selection for human serum resistance in cultured *Trypanosoma brucei brucei* (poster); Southeastern Branch of the American Society for Microbiology Annual Meeting, UAB, Birmingham, AL *(award winning poster)*

2001 **Oli, M.** and S. Hajduk, Serum resistance associated protein blocks lysosomal targeting of trypanosome lytic factor in African trypanosomes; Departmental Retreat, Lake Guntersville State Park, AL *(award winning presentation)*

2001 **Oli, M.,** S. Faulkner, and S. Hajduk. A single gene confers human infectivity to African trypanosomes, Graduate Student Research Day, UAB, Birmingham, AL *(award winning presentation)*

2001 Hajduk, S., C. Barker, J. Bishop, J. Drain, S. Faulkner, **M. Oli**, and M. Shimamura. The mechanism of human resistance to *Trypanosoma brucei brucei* infection, British Society for Parasitology, Leeds, U. K.

1998 **Oli, M. W.** and C. C. Dykstra, Creating drug mutants in *E. coli*. NCDDG group meeting, Atlanta, GA

1997 **Oli, M. W.** Emerging infectious diseases – an overview, Departmental Seminar, Auburn, AL

1996 **Oli, M. W**., Buddington R. K. and Petschow, B. W., Adding Fructooligosaccharide (FOS) to Oral Electrolyte Solution (OES) Improves Recovery of Diarrhea by Stimulating Growth of Host *Lactobacillus* and *Bifidobacterium* population; 49th Annual Meeting of the Animal Disease Research Workers in the Southern States, Auburn, AL *(award winning presentation)*

1996 **Oli, M. W.,** Effect of ionophores on coccidian parasites, Departmental Seminar, Auburn, AL

1995 **Oli, M. W**., Buddington R. K. and Petschow, B. W., Influence of Fructooligosaccharide (Neosugar) on Oral Electrolyte Solutions for treatment of secretory diarrhea (poster). American Society for Microbiology, Washington, D.C.

1995 **Oli, M. W**., Buddington R. K. and Petschow, B. W.; Recovery of the intestinal microflora after secretory diarrhea and treatment with Oral Electrolyte Solution with and without Neosugar (oral presentation). Mississippi Academy of Science, Biloxi, MS

# Invited Lectures/Talks

2020 UF/IFAS faculty forum: Living working and adapting to the new normal of Covid-19. Panel discussion “Online Labs”

2019 “Creation and Execution of Hybrid Bootamp labs for Online MCS BSc Students”. Learning Technology Consortium, CITT, UF

2019 “Teaching innovations”, invited guest at the Department of Agricultural and Biological Engineering - annual teaching retreat, August

2019 “Global Learning Spaces” at UF’s Interface 2019 Conference, April

2018 “Everyone hires a (micro)biologist” careers advice and overview for undergraduate students. Undergraduate Research Conference Workshop, Department of Microbiology and Cell Science, part of the SSTEM grant, UF

2017 “Academic Misconduct - Two Sides of the Coin” CALS TES (Teaching Enhancement Symposium), Monika Oli and Joel Brendemuhl, August

2016 “Using analytics to enhance and broaden participation throughout the Microbiology and Cell Science curriculum”

2015 Immersion Labs as Part of the Online Learning Trend, dissecting the opportunities and importance for of hands-on learning for on-line STEM degrees. CALS TES (Teaching Enhancement Symposium), Monika Oli, Kelly, Rice, Jennifer Drew, August 2015

2015 “Summer Forum on Teaching” Member of panel discussion for the 2015, invited by UF PhDMoms

2014 “Microbes in Your Daily Life”, guest lecture for Microbiology and Cell Science Club

2014 “The microbial challenge” for ALS 2410 TED style Guest lecture for Challenge 2050

2014 “Microbes across campus”, Raising Transdisciplinary Awareness. CALS TES (Teaching Enhancement Symposium), Roche Fellows

2013 CALS Teaching Symposium Presenter, March 19th, workshop (Monika Oli, Karla Shelnutt and Tony Andenero)

2013 “Careers in Biomedical Science” for FURC 2013 - Florida Undergraduate Research Conference Workshop, February 23rd, (Monika Oli and Phil Geis)

2013 “Your Plan B” Alpha Zeta Keynote Speaker, Annual Meeting, Honors fraternity for the College of Agricultural and Life Sciences

# Teaching Assignment/Activities

**Face-to-face traditional**

* MCB2000L: Microbiology Lab (General Elective), since 2011, every semester
* MCB3020L: Basic Biology of Microorganisms Lab, since 2011, every semester
* MCB3023L: Microbiology Lab (Microbiology Majors), since 2011, Fall & Spring
* MCB4934: Supervised teaching (undergraduate level), since 2011, every semester
* MCB4934: Careers Seminar/Careers preparation, 2011-14, Fall 2CR
* ZOO4232: Parasitology, Fall 2013
* MCB6949: Supervised teaching (graduate level), since 2011, every semester
* MCB6949: Careers Seminar for graduate students, 2011-14
* ALS4932 Developing Tools for Changing the World (part of the Challenge 2050 certificate) Spring 2014

**Online – Distance learning**

* MCB3023L: Microbiology Lab (Microbiology Majors) Immersion lab version for online students (face to face)
* Executed lab at distance site (Miami, Ft. Pierce, Ft. Lauderdale)
* Hybrid-lab option for distance students
* MCB4934: Careers Seminar/Careers preparation, (Fall and Spring 2012-2015)
* MCB3015C: Lab Skills Bootcamp, since 2012, every spring
* ZOO4232: Parasitology, Fall 2013
* MCB2006: Microbes without Borders (Part of the UF International Scholars program), since Spring 2015, taught every fall

**International – Study Abroad**

ALS4404: “[Medicine, Microbiology and Health](https://www.youtube.com/watch?v=05OofQrMDDA)” 2015, 2016, 2018. A 18 day study abroad trip to Holland, France, Germany and Switzerland (25 students)

[**International Scholars**](https://internationalcenter.ufl.edu/global-learning/international-scholars-program/coursework) **Instructor (ISP instructor) and** [**Dual Enrollment class**](https://dualenrollment.dce.ufl.edu/courses/) **for high school students (DCE Instructor), offered through** [**FloridaShines**](https://courses.flvc.org/Courses/Search/#/?keywords=microbes&registrationOnly=True)

* Created, developed and teach “Microbes without Borders” MCB2006 as part of the international scholars program, since 2017
  + 2020 Chosen to be taught as Quest 2 course in person, fall
  + 2019 This course was awarded the quality diagnosis *[“Exemplary Course”](http://teach.ufl.edu/course-quality/quality-designations/)*
  + 2018 Participates in [*Affordable UF*](http://teach.ufl.edu/affordable-uf/): Courses using required material costing $20 or less per-credit-hour
  + 2018 Received UF’s Online Education Excellence Awards ([*Web Tour*](https://vimeo.com/groups/378323/videos/290560987))

# Teaching/Mentoring

2020 Zoom based mentoring and advising; initiated additional open office hours where students can join, talk and share their experience, ask questions and get help from me and each other

2020 Teaching Innovation – teach microbiology labs online due to Covid-19 pandemic. Work with IT staff and students to enable quality home lab/online teaching environment. Creatively integrate hands on activities with home microbiology kits, virtual labs, creative online activities, discussions and student presentations.

2020 Teaching Innovation – offer Quest course “Microbes without Borders” face-to-face. Quest is UF Quest is a shared, sequential General Education curriculum that serves to nurture the intellectual curiosity of UF students and invite them to grapple with the difficult questions and challenges that they will face as thoughtful adults of a complex and interconnected world.

2019-20 Offer student’s life, career and wellness coaching in addition to advising and mentoring sessions

2019 Teaching Innovation – introduce basics of R programming and microbiome analysis into the Microbiology Lab curriculum

2018 Teaching Innovation – introduce third generation nanopore sequencing into the undergraduate curriculum

2017 Teaching Innovation - Invigorate the undergraduate teaching assistant experience to include mandatory training, and ePortfolios in addition to the 2day TA workshop

2017 Teaching Innovation - Co-Developed new R programming course “Data Story Telling in R” (with Daniel Maxwell, PhD)

2016-Now Teaching Innovation - Offered and taught online class “Microbes without Borders” as dual enrollment opportunity for High School Students

2015-16 Developed and taught “Microbes without Borders” online class with activities, part of the UF International Scholars Program <https://www.ufic.ufl.edu/UAP/InternationalScholarsProgram.html>

Guest lectures and interviews are free for anyone to watch on my Microbes without Borders Vimeo channel (https://vimeo.com/groups/378323)

2013-2016 Modified and taught “Hybrid Immersion Microbiology Bootcamp Lab”, a combination of online class to learn analytical and career related skills in combination with a hands on lab class where the MCB3023L semester curriculum is taught in 5 consecutive days to distance education students

2013-2016 Developed and taught “Immersion Microbiology Lab”, a hand on lab class where the MCB3023L semester curriculum is taught in 11 consecutive days to mainly distance education students

2012-Now Procure and help secure funding to have most current technology in the Microbiology teaching lab, we are always improving the modules to include current knowledge and techniques

2012-Now Developed “Lab Skills Bootcamp” an online class emphasizing a broad variety of essential lab skills and professional competencies. This problem-based course prepares students for work in the laboratory and research environment

2011-2017 Developed career development and career mentoring class “Emerging careers in (Micro)Biology”. This class provides students with insight in the many different career paths they can engage in. Further, it teaches job skills like CV creation, cover letter writing, interview skills etc. Recorded seminars are available for anyone to watch on my Careers Seminar Vimeo channel (https://vimeo.com/groups/157228)

2011-Now Design and conduct Bi-annual TA workshop (1-2 days) with guest speakers and training activities. Attendance is >100 people.

2011-now Created UF Microbiology Vimeo channel with instructional videos for laboratory techniques, all videos are made in house (https://vimeo.com/channels/859405)

2011-Now Letter of recommendation writer, for our students, UTAs, graduate students and former students. I write about 100-150 letters per year. This includes often feedback on CVs, personal statements and answering many other career questions.

2010-Now Developed and implemented creative, novel and student-centered curriculum for teaching microbiology laboratory in the Department of Microbiology and Cell Science, IFAS, UF. Teaching various sections of MCB2000L, 3020L, 3023L. Responsible for ~ 1000 undergraduate students, 100 undergraduate TAs and 12 graduate TAs per semester

2011 Teacher’s College participation, enhancement of teaching skills, fall semester, CALS, UF

2009-10 Advising and mentoring tech entrepreneurs and scientist to successfully translate and commercialize their research

2005-2015 Mentoring numerous science fair participants in microbiology, medicine & health and environmental microbiology

2004-08 Supervised and managed biotech laboratory in small biotech company, taught and mentored biotechnology technicians, mentored interns

1998-01 Instructor for BioTeach for high school teachers and GENEius for high school students microbiology and molecular biology program, University of Alabama at Birmingham and McWane Center, Birmingham

1996-98 Laboratory assistant for Veterinary Parasitology, Auburn University

1993-95 Laboratory instructor for Introductory and Advanced Microbiology, Medical Microbiology, Anatomy and Physiology, Animal Biology, Parasitology; training student workers, Mississippi State University

# Advising

2020 Initiated Open advising sessions during Covid-19 to keep students informed and be able to have face time with advisors. Sessions are recorded and made available for students later

2019 Created departmental advising site to consolidate information from various sites at UF and to have control of quick updates and recommendations. <https://ufl.instructure.com/courses/368907>

2019 Initiated Coaching sessions for students, developed worksheets and activities to help students above and beyond advising

# Editorial Responsibilities

2019-Now Manuscript Reviewer, Journal of Microbiology & Biology Education (American Society for Microbiology)

2018-2021 Manuscript Reviewer, NACTA (**North American Colleges and Teachers of Agriculture**)

2003-08 Ad Hoc member of review board for NIH NIDDK grants, for the US Army Medical Research and Material Command, reviewer for Journal of Medical Microbiology, FEMS Micro Letters

# Service/Outreach/Community

2020 Member, mentoring committee for psychology faculty, Dr. Shari Schwartz

2020 Member, teaching evaluation committee Dr. Daniel Czyz

2020 Chair, search committee, Teaching Lab Specialist II

2020 Member, Creative Campus review committee

2020 Initiated and organized first ever Microbiology and Cell Science faculty teaching retreat, Citra, FL

2020 Chair, search committee, Lecturer in Microbiology and Cell Science

2019/20 International educator award selection committee, Office of Global research, UF

2019 Judge, Agricultural and Biological engineering Department - Three Minute Thesis and Video Contest (3MT+V)

2019-20 Quality Assurance Committee, online education, UF. Group conducts formative peer review of online courses as well as selecting the recipients of the Exemplary Online Awards (EOA)

2019-20 Member, Provost-supported faculty learning community on teaching with technology, UF

2018 Member, peer teaching evaluation committee for Dr. Jennifer Drew

2018-20 Member, UF Teacher of the Year and the Mentor of the Year review committee

2018-20 Member, CALS Teaching and Mentoring Awards review committee

2018 Member, search committee for lecturer position, School of Forest Resources and Conservation (SFRC), UF

2018 Member, peer teaching evaluation committee for Dr. Julie Maupin

2018 Member, peer teaching evaluation committee for Dr. Eben Broadbend, School of Forest Resources and Conservation (SFRC), UF

2018 Co-Organizer, 8th Microbiology and Cell Science undergraduate research symposium

2018 Member, search committee lecturer, Microbiology and Cell Science, UF

2017-Now Advise faculty with their submission of new courses through the MCS, CALS and UF undergraduate curriculum committee (UCC), submit curriculum changes that results from changes to our curriculum through the UCC, respond to inquiries and criticism from the various committees

2017 CALS Undergraduate Student Awards and Scholarship Committee

2017,18 Teaching Portfolio Reviewer for graduate students and TAs, UF

2017 Judge, UF Global Health Case Competition “Preparing for the Surge: Climate Change and the People of Kiribati” <https://www.ufic.ufl.edu/GHC/GHCCMission.html>

2017-2018 Member, UF University Curriculum Sub-Committee, critically review all curriculum submissions

2016-Now Nominate outstanding staff and faculty in the department for a variety of local and national awards

2016-Now Nominate outstanding undergraduate students for CALS students awards and graduate teaching assistants for the UF Graduate Student Teaching Award. Several of our students have thus received highest honors and awards https://cals.ufl.edu/students/scholarships-awards-descrip.php

2016-Now Member, Awards Committee, Department of Microbiology and Cell Science

2016 Organizer, 6th Microbiology and Cell Science undergraduate research symposium

2016, Jan Judge, UF Global Health Case Competition “How do you address the lack of infrastructure to deliver clean water and sanitation services to the citizens of Lagos, particularly considering the booming population?” <https://www.ufic.ufl.edu/GHC/GHCCMission.html>

2015-Now Chair, Undergraduate Curriculum Committee Department of Microbiology and Cell Science, responsible for monthly meetings, curriculum evaluations, academic assessment reports, new course development and approval process, etc.

2015, Nov Chair, peer teaching evaluation committee for Dr. Jennifer Drew

2015-Now Undergraduate Coordinator, Department of Microbiology and Cell Science

2015-2018 Member, UF University Curriculum Committee, UF Senate elected member

2015, Aug Workshop design and execution: 4-H 2 x 1/2 day workshop module “Good microbes, bad microbes” Florida 4-H Congress, August

2015 Organizer, 5th Microbiology and Cell Science undergraduate research symposium

2015, Jan Volunteered as judge UF Global Health Case Competition “Addressing the critical shortage and uneven distribution of the health workforce in Sierra Leone” <https://www.ufic.ufl.edu/GHC/GHCCMission.html>

2015-Now Faculty advisor for ASM Gator UF Microbiology and Cell Science Club, official American Society for Microbiology chapter, involved in campus activities and a large variety of community service activities, like school visits, STEM program development, etc.

2014-16 Room scheduling for courses in the department

2014-2015 Co-adviser for Microbiology Club (with Dr. Joe Larkin) – club changed to ASM Gators

2014-Now Chair Events Committee, Department of Microbiology and Cell Science, (Organize undergraduate research symposium, institute and mange external advisory board, enhance recruitment)

2014-Now Distance Education Committee, Department of Microbiology and Cell Science, CALS/IFAS, University of Florida

2014-2016 Undergraduate Teacher of the Year award committee, UF

2013-2016 Undergraduate Teacher of the Year award committee, IFAS/CALS UF

2014, May Faculty search committee, Lecturer, Department of Biology, CLAS, UF

2013, Aug Workshop design and execution: 4-H 1 day workshop module “Good, Bad and Tasty microbes” Florida 4-H Congress, August 1st, 2013

2013, July Workshop design and execution: 1 day workshop module “Good, Bad and Beautiful microbes” for summer camp students from Discovery Center Instructor City of Ocala Recreation & Parks

2013, Jun Microbiology-Apprenticeship Camp; 3-week summer workshop for middle school students at UF (UF approved)

2013 The Challenge 2050 Project - a new curriculum model, Founding member of the course development team

2013-16 Founding member, CALS Council for Teaching Enhancement and Innovation, IFAS, UF

2012-2014 SEAChange committee member. UF SEA Change brings together Science, Engineering, Arts and others. The purpose is to develop and disseminate innovative ideas for research, teaching and service to enhance the campus intellectual environment.

2012-Now Curriculum Committee, Department of Microbiology and Cell Science, CALS/IFAS, University of Florida

2011-2013 Curriculum Committee, CALS/IFAS, University of Florida

2012, Aug Workshop design and execution: 4-H workshop module “Good, Bad and Beautiful microbes” Florida 4-H Congress, August 2nd, 2012

2004-Now Local, Regional, State and International Science and Engineering Fair judge (I judge at 3-4 fairs each year and also mentor students, INTEL/ISEF 2009, 2010)

1998-2001 Involvement in teaching high school student and teachers the principles of molecular biology, through GENEius and BioTeach, Birmingham, AL

1992-1994 Crisis Hotline Volunteer, University of Edinburgh, UK

# Affordability

To provide more affordable education to all of my students I provide the microbiology lab manual I wrote for free, including all audiovisual materials. Furthermore, all videos made that pertain to the microbiology lab, online classes and careers classes are free for anyone with the link. This amounts to substantial savings for all students in every of my class.

# International Engagement and Globalization

2018 Applied for Fulbright scholarship (Innsbruck), chosen from the US office but was not chosen as Fulbright scholar in the host country

2015-Now Engaged and collaborated with UF’s International office for the International Scholar’s program and study abroad activities

2015 Developing new course “The Global Microbiology Challenge”, taught starting spring 2016 as MCB2006 Microbes without Borders

2015, 16, 18 “Medicine, Microbiology and Health” Study abroad Faculty lead program.

I developed the trip and curriculum for “Medicine, Microbiology and Health" which is a unique experiential and educational study abroad program that encompasses aspects of medicine, microbiology and health in Holland, Germany, France and Switzerland. “Medicine” related topics are explored by visiting medical institutions, a variety of organizations, companies and museums. You will experience “Microbiology” by exploring the production process and tasting fresh goods at a chocolate factory, a cheese dairy, a brewery and wine cellar. "Health" is incorporated by your participation in fitness and wellness activities. Ethnic immersion and enhanced cultural awareness of Western Europe is an integral part of the program.

2014 Alternate Work Location Zurich, Switzerland and Oxford England. Worked for 7 months from Zurich while my husband was on sabbatical at the University of Zurich and Oxford University. Continued most regular job duties via email and video conferencing and online teaching.

# Membership

American Society for Microbiology

Microbiology society, UK

North American Colleges and Teachers of Agriculture (NACTA)

# Creative and Social Engagement

2019-20 Initiated and coordinated landscaping project around the Department of Microbiology and Cell Science to highlight native and medicinal plants. Collaboration with Field and Fork, UF

2019 Engaged art students in microscopy (course let by Logan Marconi, MFA, UF)

2018 Students developed a bi-lingual childrens book that pertained to a topic of their choice in microbiology (final project in MCB2006 Microbes without Borders)

2017-Now Added creative elements to several courses as reflective assignments. Students are required to develop an ePortfolio in Supervised teaching (MCB4934), Study Abroad (ALS 4404) and MCB2006 (Microbes without Borders)

2015-Now Invited guest speakers to talk about resilience, mental health or leadership during the Fall or Spring Teaching Assistant workshops

2013-Now Established and maintain UF Microbiology facebook page (UF registered) with currently >5000 likes (as of January 2018) <https://www.facebook.com/UFMicrobiology/>

2012-Now Produced >150 educational videos, tutorials and training initiatives specific for microbiology students <https://vimeo.com/user11474845/albums>

2014 Developed Microbiology App to provide students access to lab materials

http://h.fanapp.mobi/index.php?app=microbiologylabs

2013-2014 Catalyst fund “Next-Gen Fusion of Art and Microbiology “. Office of the Provost, UF. Grant to promote and enhance creative activity on campus. PI, $20,000

2013 When Science Meets Art <http://post.health.ufl.edu/2013/04/04/when-science-meets-art/>;

2013 MicroArt Exhibit at the Harn Museum, Gainesville, FL

# Continuing Education

2019 Applied Soil Microbial Ecology Training: Mycorrhizae, 3-day short course, Soil and Water Science, UF, July 15-17

2019 Data Carpentry workshop: Genomics, April 11-12

2019 Qualtrics: beyond the basics workshop

2018 TopHat Level 1 Certification (Professional Development Certificate + Innovative Educator Badge)

2018 RedCap (Research Electronic Data Capture) training, 2h workshop UF

2018 Data Carpentry Workshop at the UF Informatics Institute: Data organization, cleaning, Data management with SQL, R Programming for data analysis and visualization, UF

2018 Youth Mental Health First Aid USA certificate, 1 day workshop. Issued by the National Council for Behavioral Health, held in Gainesville, FL

2018 Nanopore sequencing training and data analysis, Nanopore Technical Support Network

2018 Interface teaching workshop, UF

2017 Best practices for teaching online certificate, comprised of three classes: Engaging online learners, creating student-centered assignments and Accessible online environments; Issued through the Center for Instructional Technology and Training, UF

2017 Day of R, Workshop, Software Carpentry, Marston Science Library, UF

2017 Interface teaching workshop, UF

2017 Microbiology of Activated Sludge, 3-day workshop, Center for Training Research and Education for Environmental Occupations, UF

2016 Interface teaching workshop, attendee and presenter, UF

2015 Advanced Teacher’s College participant, enhancement of teaching skills, fall semester, CALS, UF

2014 Qualtrics survey training workshop, basic and advanced workshop, UF

2011-Now Attended several times a year various teaching workshops and seminars, including Interface and CALS Teaching Enhancement Symposium (TES), UF

2013 Audit ALS5932 Teaching Large Classes, Seminar, taught by Dean Dr. Teri Balser

2013 Comparative Genomics Workshop, 6-3-13 to 6-5-13; NSF sponsored, University of Florida, UF

2011 Teacher’s College participant, enhancement of teaching skills, fall semester, CALS, UF

2012 Apple iBooks Author Training for iPad, May 24-25, Richmond, VA

2009 Attended various conferences, including Southeast Venture Conference, Naples, BioFlorida, Orlando, Tech Venture Conference, Tampa, Biotech Showcase, Gainesville

2009 So what? Who cares? Why you? Wendy Kennedy, one day seminar and workshop, Increasing Commercialization Success. http://www.wendykennedy.com/

2007 Employee Evaluations, Webinar, Ragan Management seminars

2007 Molecular Testing: What's the Rush? Quest diagnostics (Audio Conference)

2007 Combing Cardiac Markers and Imaging to Improve Patient Outcomes, AACC Audioconference

2007 From the Pediatric Infectious Disease Case Files, Quest diagnostics (Audio Conference)

2007 How to Establish Confidence & Credibility in the Workplace (Rockhurst Audio Conference)

2007 Performing effective supplier audits, webinar

2007 SOP writing, webinar

2007 Various Sigma Stat and Sigma Plot webinars

2007 Excell Macros, UF Computer Training Center

2006 Creative Leadership Workshop for Managers, Supervisors, and Team Leaders, Careertrack, 1 day seminar

2006 Dealing with difficult people, Careertrack, 1 day seminar

2006 Validation and Use of Excel Spreadsheets in FDA Regulated Environments

2006 cGMP system strategies for cost effective compliance, Compliance on-line, 1h webinar

2006 Regulatory training by Pamela Weggraff, Quintiles

2006 Tech Entrepreneur Coaching Program by Chris Johnsund and Ted Runions (4 x 3h sessions), BDI Alachua

2006 The 7 Habits of Highly Effective People (one day seminar) University of Florida, Gainesville

2006 First time manager training

2006 Project Management class (MS project), New Horizon, Gainesville, FL

2005-06 Various Management classes, University of Florida, Gainesville

2003-04 Various advanced computer classes at the University of Florida

2003 Epidemiology of Infectious Diseases (full semester, course audit)

2003 The science of clinical research, University of Florida Introduction to Clinical/Translational Research, GMS 7093

2003 Project Management training, including Microsoft Project instruction, University of Florida

2003 BIAcore – Kinetics 1, University of Florida

1998 Biology of Parasitism, a molecular approach, Woods Hole, Marine Biological Laboratory, MA (10 week intensive, lab based summer course)

1997 Flow Cytometry Workshop, Tuskegee University

1997 Instructional Technology Conference, Auburn University

1997 Grant Writer's seminar, Auburn University

# Laboratory Skills

1. Microbiology: knowledge of all basic microbiology techniques (aseptic technique, cultivation, identification, isolation of various microorganisms and parasites, growth analysis, antibiotic testing, etc.), working with anaerobic bacteria, working with probiotics, internship in diagnostic veterinary microbiology lab
2. Molecular biology: isolation and analysis of DNA and RNA from bacteria and parasites, cDNA synthesis and analysis, DNA amplification, PFGE, cloning, radioactive and non-radioactive labeling of DNA and RNA probes, Northern blot, differential display PCR analysis, Southern blot, sequencing, transfections and electroporation of bacteria and protozoal pathogens, chemical and UV induced mutagenesis of *E. coli* and *Cryptococcus neoformans*
3. Cell biology: immunofluorescence, immuno-EM, culture and maintenance of various tissue culture cells; maintain parasite culture cell lines of *Trypanosoma* spp.*, Giardia* spp.*, Toxoplasma* spp.*, Neospora* spp., developed novel methods for tissue culture adaptation of various *T. b. brucei* and *T. b. rhodesiense* strains
4. Immunology: Developed many immunogens (proteins, peptides) that led to successful generation of high affinity antibodies; Antibody labeling and immunoprecipitations, ELISA, Western blotting, flow cytometry, immunizations, lymph node extractions, FACS analysis, T cell assays
5. Biochemistry: isolate and analyze proteins, quantification, PAGE, various enzyme assays
6. Microscopy: versed in many microscopic methods including confocal microscopy, immunofluorescence staining, birefringence analysis, darkfield, etc., EM, TEM
7. BIAcore (SPR technology): proficient in designing, performing and analyzing experiments
8. Animal work: experience with mice, rats, pigs and calves

# Computer Skills

* Highly skilled and proficient with all programs in MS office (Word, Power Point, Excel, Publisher, Access, One Note, Outlook)
* Bioinformatics: proficient in using and interpreting many programs for genetic, genomic and proteomic analysis
* Proficient in data analysis using SigmaPlot, GraphPad – Prism, SAS
* Basic competency in R programming
* Data management and database skills using Microsoft Excel and Access
* Project management skills using Microsoft Project
* Computerized analysis of digitally captured microscopy images, including Photoshop
* Proficient in reference management systems (Endnote, Mendeley)
* Excellent oral and written communication skills utilizing versatile digital and computer tools
* Proficient working in Mac or Win environment
* Excellent knowledge of course management system (Sakai, Canvas)
* Video production and video editing proficiencies using Camtasia and Final Cut Pro

# Languages

Fluent in spoken and written German (mother tongue) and English, basic Nepali

# Hobbies

Running and hiking, traveling, photography, cooking and eating ethnic foods, making fermented probiotic foods