

## **Monika Oli**

Department of Microbiology and Cell Science  
P.O. Box 110700, University of Florida  
Gainesville, FL 32611  
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### **ACADEMIC QUALIFICATIONS**

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- 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)
- 1986-89 Pre-Diploma in Biology**  
Department of Biology, University of Regensburg, Germany  
(Emphasis: Electrophysiology)

### **PROFESSIONAL EXPERIENCE**

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- 2010-now Lecturer**, Department of Microbiology and Cell Science, University of Florida, FL,  
<http://microcell.ufl.edu/directory/faculty/monika-oli/>
- 2010 Program Director, Cade Museum Foundation** (part-time position, non-profit)  
Gainesville, FL (<http://www.cademuseum.org>)
- 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  
(<http://www.banyanbio.com>)
- 2004-07 Senior Scientist, Banyan Biomarkers**  
Sid Martin Biotechnology Development Incubator, Alachua, FL
- 2004 Post-Doctoral Associate (Development of Biomarker assays after TBI)**  
Department of Neurobiology, University of Florida, FL

(Development of TBI Biomarker ELISA assays)

**2001-04 Post-Doctoral Associate (Bacterial Pathogenesis - Immunology)**

Department of Oral Biology, PI Dr. Jeannine Brady, University of Florida, FL

**CERTIFICATIONS AND ADVANCED TRAINING**

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- 2009 Project Management Professional (PMP) certification**, license #1253379, through PMI ([www.pmi.org](http://www.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 Dr. Stacpoole, Director

**PRE-GRADUATE PROFESSIONAL EXPERIENCE**

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- 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)

**FUNDING/GRANTS**

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- 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
- 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**

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- 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

*Inventor on several foreign patent applications resulting from the US patents above, not listed here.*

#### **HONORS/AWARDS/FELLOWSHIPS**

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- 2013**     Academy of Teaching Excellence, member, UF, College of Liberal Arts and Sciences (CALs), UF
- 2012-13**   University of Florida Teacher of the Year
- 2012-13**   CALs Teacher of Distinction, CALs Undergraduate Teaching Award, College of Liberal Arts and Science, IFAS, UF
- 2012**     Undergraduate Teaching Faculty Award, Microbiology and Cell Science Department, in connection with the 150<sup>th</sup> 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, 33<sup>rd</sup> 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 (First Place), Southeastern Branch American Society for Microbiology, Birmingham, AL
- 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, UAB, AL (First place)
- 1998** "Biology of Parasitism" Marine Biological Laboratory (MBL) Scholarship, Woods Hole, MA (for 10 week intensive summer course)
- 1998** Auburn University Presidential Fellowship, Auburn, AL
- 1996** Graduate student award, 49<sup>th</sup> annual meeting of the Animal Disease Research Workers in the Southern States, Auburn, AL (first place)

## PUBLICATIONS

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- > 20 peer-reviewed publications  
<http://www.ncbi.nlm.nih.gov/pubmed?term=oli%20mw>
- 3 Book chapters
- **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 Apr 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., Lerner 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., Kelley B.J., Akinyi L., **Oli M.W.**, Liu M.C., Hayes R.L., Wang K.K., Povlishock J.T.; 2009. Biochemical, structural, and biomarker evidence for calpain-mediated cytoskeletal change after diffuse brain injury uncomplicated by contusion. *J Neuropathol Exp Neurol*. 68(3):241-9.
- Papa, L., Robinson, G., **Oli, M.**, Pineda, J., Demery, J., Brophy, G., Robicsek, S. A., Gabrielli, A., Robertson, C. S., Wang, K. K., Hayes, R. L. 2008. Use of biomarkers for diagnosis and management of traumatic brain injury patients. *Expert Opinion on Medical Diagnostics*. 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.; 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 fructooligosaccharide supplementation of oral electrolyte solutions for treatment of diarrhea, Digestive Disease and Sciences, 43(1):138-147.

#### **BOOK CHAPTERS AND POPULAR ARTICLES**

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- **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.
- Lerner, 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/SEMINARS**

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- 2013, Feb Davids, D., Davidson, **M.**, **Oli, M.**, Ten-Broeck, S.. Comparison of the Efficacy of Static Versus Mechanical Chlorhexidine Skin Preparation, Florida Undergraduate Research Conference (FURC), Gainesville FL (poster)
- 2010, May 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, Jan Robicsek S.; Hayes R.L.; Wang K.K.W.; **Oli M. W.**; Robinson G.; 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, July **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 Casualty Care (ATACCC), St. Pete Beach, FL (poster)
- 2007, July 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 Symposium (poster)
- 2007, July 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 Symposium (poster)
- 2006, April 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, September **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, April 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, March **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, March 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, March 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, April **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, Nov 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 Immune 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, Sept. **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, June 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, Nov **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, Nov. 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, Nov. 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, Oct. **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, April **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, April 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, March **Oli, M. W.** and C. C. Dykstra, Creating drug mutants in *E. coli*. NCDDG group meeting, Atlanta, GA
- 1997, Oct. **Oli, M. W.** Emerging infectious diseases – an overview, Departmental Seminar, Auburn, AL
- 1996, March **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, Jan. **Oli, M. W.**, Effect of ionophores on coccidian parasites, Departmental Seminar, Auburn, AL
- 1995, May **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, Feb. **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 with out Neosugar (oral presentation). Mississippi Academy of Science, Biloxi, MS

#### **TEACHING/MENTORING**

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- 2012-now Developed "Lab Bootcamp" an online class emphasizing a broad variety of essential lab skills.
- 2011-now Developed career development and career mentoring class "Emerging careers in (Micro)Biology"
- 2010-now Developed and implemented 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 500 undergraduate students, 40 undergraduate TAs and 10 graduate TAs per semester
- 2011 Teacher's College, 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-now 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

### **SERVICE/OUTREACH**

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- 2013 Microbio-Apprenticeship; summer workshop for middle school students at UF
- 2013 The Challenge 2050 Project - a new curriculum model, Founding member of the course development team
- 2013 CALS Teaching Symposium, March 19<sup>th</sup>, workshop (Monika Oli, Karla Shelnut and TonyAndenoro)
- 2013 FURC 2013 - Florida Undergraduate Research Conference Workshop, February 23<sup>rd</sup>, "Careers in Biomedical Science" (Monika Oli and Phil Geis)
- 2013 CALS Council for Teaching Enhancement and Innovation, Founding member, IFAS, UF
- 2012-now SEACChange committee. 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-now Curriculum Committee, CALS/IFAS, University of Florida
- 2012-13 4H workshop module "Good, Bad and Beautiful microbes" Florida 4-H Congress, August 2<sup>nd</sup>, 2012
- 2004-now Local, Regional, State and International Science and Engineering Fair judge
- 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
- 1998-2001 Involvement in teaching high school student and teachers the principles of molecular biology, through GENEius and BioTeach, Birmingham, AL

### **CREATIVE ENGAGEMENT**

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- 2013, April When Science Meets Art <http://post.health.ufl.edu/2013/04/04/when-science-meets-art/>; MicroArt Exhibit at the Harn Museum, Gainesville, FL

### **LANGUAGES**

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Fluent in spoken and written German and English

## **HOBBIES**

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Running, photography, travelling, cooking