

DANIELA MASSON-MEYERS, PhD*dsmasson@gmail.com*www.linkedin.com/in/daniela-masson-meyers-8a742694www.researchgate.net/profile/Daniela_Masson-Meyers**EDUCATION****Ph.D. in Medical Sciences:** Biomedical Investigation (2011)

School of Medicine of Ribeirao Preto, University of Sao Paulo, Brazil (2007-2011)

International collaboration training with College of Health Sciences, University of Wisconsin-Milwaukee, USA (Nov/2009 - July/2011)

M.S. in Pharmaceutical Sciences (2005)

School of Pharmaceutical Sciences of Ribeirao Preto, University of Sao Paulo, Brazil

B.S. in Pharmacy (1998), with emphasis in **Clinical Laboratory Analysis** (1999)

Federal University of Mato Grosso do Sul, Brazil

LABORATORY SKILLS/ TECHNIQUES

- Cell culture (fibroblasts, keratinocytes, stem cells, etc)
- Human organotypic skin explant culture (*ex vivo* model)
- Rats, rabbits handling and experimental wound healing models
- Tissue sampling, processing, embedding and analysis
- Histology/ Microscopy/ Image analysis
- Biochemical tests (electrophoresis, protein assays, collagen, etc)
- Cytotoxicity assays
- Bacterial culture
- Antimicrobial activity *in vitro* and *in vivo*
- ELISA, Western Blot, PCR assays
- Pharmaceutical/cosmeceutical compounding
- Stability tests of topical formulations

TRAINING**Clinical Laboratory Analysis internships** (2000) - University Hospital - Federal University of Mato Grosso do Sul, Brazil

- Clinical Biochemistry, Urinalysis, Parasitology, Microbiology, Hematology and Immunology Laboratories (540 hours).

Performed routine clinical laboratory tests including: cholesterol, glycemia, proteins, lipids; urine: sedimentoscopy, chemical analysis, microscopy; parasitological examination of stool, fecal occult blood test; hemoculture, coproculture, urine cultures, bacterioscopy, antibiograms; hemogram, erythrocyte sedimentation rate, prothrombin time.

- Clinical Immunology Laboratory (200 hours). Performed routine clinical laboratory tests including blood typing, ELISA, indirect immunofluorescence and other tests to diagnose: HIV, hepatitis, cytomegalovirus, rubella, toxoplasmosis among others.

Toxicology Center (1997 - 1998) - University Hospital - Federal University of Mato Grosso do Sul, Brazil

Assisted health care providers and laypeople on how to proceed in cases of medication abuse, intoxication by household products, general chemicals, pesticides, and poisonous plants; also to assist with cases of snake and scorpion bites. We were also responsible for storage and delivery of snake and scorpion antivenoms and patient follow-up during and after treatment (528 hours).

RESEARCH INTERESTS

Tissue and cell cultures (human and bacterial). Tissue injury and repair. Experimental models of cutaneous wound healing. Regenerative Medicine. Patient-centered Research. Basic Science Research. Translational Research. Clinical Research. Microbiology. Pathology. Biochemistry. Immunology. Histology. Alternative and complementary medicine (phototherapy and medicinal plants).

RESEARCH EXPERIENCE

✓ **Special Consultant** (December 2016 to present). **San Diego State University Research Foundation, USA** - Remote (Milwaukee, WI). Continuation of the work with my colleagues/research group (previously located at UWM). Roles: Images preparation: design of panels from photographs of experiments. Data management: arrangement/organization of raw experimental data received from the research team. Quantitative analysis: processing of data (bacterial percentage survival; absorption/emission spectra). Statistical analysis. Graph plotting: arrangement and plotting of all data and statistical analysis, in order to display the results in a clear and appropriate format to be interpreted. Presentation of results: pictorial and graphical formats. Assistance with literature searches, scientific reports, publications and presentations.

✓ **Research Associate** (July, 2013 to April, 2016). College of Health Sciences and College of Letters & Science, **University of Wisconsin-Milwaukee, USA**. Responsible for human cell and bacterial cultures. Cell lines cultured include: fibroblasts, keratinocytes, monocytes, and jurkat T-cells. Bacteria include: Gram-positive aerobic methicillin-resistant *Staphylococcus aureus* (MRSA) and anaerobic *Propionibacterium acnes*; also Gram-negative enterococcus *Salmonella* spp. Tests performed include, but were not limited to: antimicrobial potential of blue light phototherapy, cytotoxicity, biochemical and immunological assays aiming to determine mechanisms of phototherapy and safety on human cell lines. Experiments in an *in vitro* wound healing model to investigate effects of blue light were also performed. Tests for proof of concept of new devices were also part of the lab routine.

✓ **Laboratory Manager II** (February, 2012 to June, 2013). Research Laboratories, Dept. of Biomedical Sciences. College of Health Sciences, **University of Wisconsin-Milwaukee, USA**. Redesigned an existing multi-use research laboratory organizing reagents and equipment to make the space a more useful and safer environment for faculty, staff and students. Maintained day-to-day lab operations. Performed various ongoing lab managerial duties including reagents ordering and equipment maintenance. Provided support to research and contributed to teaching in two different programs held in the department.

✓ **Doctoral Research** (2007-2011). Mentors: Drs. Marco Andrey Frade and Chukuka Enwemeka. Dissertation: *Wound healing and antimicrobial activities of Copaifera langsdorffii oleoresin on cutaneous wounds*. The investigation consisted of evaluating a medicinal plant regarding its cytotoxicity and wound healing using two animal models (rabbits and rats) and an *ex vivo* model. Also, the plant's antimicrobial effects were investigated *in vitro* and *in vivo*. Lab skills used: cell culture, skin culture, cytotoxicity assays, surgical induction of cutaneous wounds and infected wounds, tissue biopsy, harvesting and processing, bacterial culture, qualitative and quantitative microbiology, histology. Research findings were presented in scientific meetings and four manuscripts published in peer-reviewed journals.

✓ **Laboratory Technician** (2005-2007). Biochemical Genetics Laboratory. **School of Medicine of Ribeirao Preto, University of Sao Paulo, Brazil**. Set up a new laboratory, coordinated and performed the project "Elaboration of normal curves for the enzymes alpha-Galactosidase (Fabry's disease) and beta-glucosidase (Gaucher's disease) in normal individuals". Talked to blood donors (approximately 100 healthy volunteers) at the university blood center, explained the project, and obtained their informed consent and total blood. In the lab, samples were processed for enzymes quantification. Normal curves were determined to be used during diagnosis of the two pathologies.

✓ **Masters Research** (2003-2005). Mentor: Dr. Pedro Rocha-Filho. Thesis: *Development and evaluation of the physicochemical stability of O/W emulsions in the presence of humectants and depigmentant actives*. The investigation consisted of developing a cosmeceutical cream formulation for topical use that would be stable and suitable for the addition of depigmenting agents (kojic acid and potassium azelaoyl diglycinate). The influence of different humectants (glycerin, sorbitol and propylene glycol) in different concentrations by physical and chemical stability tests were assessed and also the formation of liquid crystalline phases (liquid crystals) and the stability of creams after addition of depigmenting agents. Research findings were presented in scientific meetings and two manuscripts published in a peer-reviewed journal.

COLLABORATIVE RESEARCH

College of Health Sciences, University of Wisconsin-Milwaukee, USA (2011 to 2013). Collaborated with experiments involving culture of methicillin-resistant *Staphylococcus aureus* (MRSA) and treatment with blue light, data analysis, manuscripts preparation and submission, poster and oral presentations at Dr. Chukuka Enwemeka's Lab.

School of Medicine of Ribeirao Preto, University of Sao Paulo, Brazil (2006 to present). Collaboration in multiple projects involving: animal/preclinical models of tissue repair, cell culture (fibroblasts, keratinocytes, mesenchymal stem cells, adipose-derived mesenchymal stem cells), speaking with and obtaining informed consent from patients, shadowing our mentor as he performed his duties, as a dermatologist, in the wound care outpatient unit, to enhance working knowledge in a clinical environment. Several methodologies to investigate potential treatments for wound healing (wound healing rate, image analysis, collagen and total protein quantification, metalloproteinase activity, quantification of growth factors and cytokines, histology, immunohistochemistry among others). Design of image panels from photographs of experiments, data management, qualitative, quantitative and statistical data analysis and graph plotting to illustrate research findings in the form of manuscripts, reports, poster and oral presentations. Currently working on two wound healing review papers and preparing other research manuscripts for publication.

Projects

"Combined phototherapy (470 nm LED and 660 e 890 nm laser) on infection control and treatment of cutaneous chronic wounds". Assit the team with experiments design, data interpretation and discussion (2014 to present).

“Tissue modifications and mechanisms of action of F1-fraction of latex from *Hevea brasiliensis* rubber tree on wound healing in diabetic rats”. Collaborated with the team in investigating the effect of topical application of 0.01% F1-fraction in carboxymethyl cellulose gel on cutaneous wounds in diabetic and non-diabetic Wistar rats (2008 - 2012).

“Autologous cell therapy with cultures of keratinocytes and adipose-derived mesenchymal stem cells (ADSCs)”. Isolated and cultured human ADSCs. Performed ADSCs isolation and culture (2008 - 2009).

“Laser phototherapy and autologous keratinocytes in a fibrin scaffold improve healing of autoimmune ulcers”. Performed culture of patient’s keratinocytes. Shadowed the physical therapy team during phototherapy treatment and the medical team during preparation of wounds and delivery of autologous implant of keratinocytes in fibrin glue. Assisted with poster preparation and presentation of this case which showed clinical efficacy and safety of cell therapy in this patient with childhood dermatomyositis (2008-2009).

“Phototherapy as a stimulus for healing of cutaneous wounds in nourished and undernourished rats”. Assisted with animal handling, wounding and treatment with LEDs (combination of 660 nm and 890 nm), 632 nm HeNe laser and 660 nm diode laser (2007 to 2009). Also, assisted with writing of a peer-reviewed manuscript (published).

“Xenografted mesenchymal stem cells (MSCs) in cutaneous wound healing: migration, histocompatibility, differentiation”. Performed MSCs culture, wounds using a rabbit model of repair and treatment (systemic and topical deliver of mice GFP-positive MSCs to rabbits) (2007 to 2009).

“Effect of low-level laser therapy in bacterial growth and wound healing in animal models”. Assisted with animal handling, wounding and laser therapy (685 nm and 830 nm) on cutaneous (non-infected and infected) wounds in rabbits. Shadowed irradiation *in vitro* of *Staphylococcus aureus* and *Pseudomonas aeruginosa* (2006 to 2007).

PEER-REVIEWED PUBLICATIONS

1. Aboualizadeh E, Bumah VV, **Masson-Meyers DS**, Eells JT, Hirschmugl CJ, Enwemeka CS. Understanding the antimicrobial activity of selected disinfectants against methicillin-resistant *Staphylococcus aureus* (MRSA). *PLoS ONE*, 12 (10), e0186375, 2017.
2. Andrade TAM, **Masson-Meyers DS**, Caetano GF, Terra VA, Ovidio PP, Jordão-Júnior AA, Frade MAC. Skin changes in streptozotocin-induced diabetic rats. *Biochem Biophys Res Commun*, 490 (4),1154-1161, 2017.
3. Biener G*, **Masson-Meyers DS***, Bumah VV, Hussey G, Stoneman MR, Enwemeka CS, Raicu V. Blue/violet laser inactivates methicillin-resistant *Staphylococcus aureus* by altering its transmembrane potential. *J Photochem Photobiol B*, 170, 118-124, 2017. *These authors have contributed equally to this work.
4. Bumah VV, Aboualizadeh E, **Masson-Meyers DS**, Eells JT, Enwemeka CS, Hirschmugl CJ. Spectrally resolved infrared microscopy and chemometric tools to reveal the interaction between blue light (470 nm) and methicillin-resistant *Staphylococcus aureus*. *J Photochem Photobiol B*, 167, 150-157, 2017.
5. **Masson-Meyers DS**, Bumah VV, Enwemeka CS. Blue light does not impair wound healing *in vitro*. *J Photochem Photobiol B*, 160, 53-60, 2016.
6. **Masson-Meyers DS**, Bumah VV, Enwemeka CS. A comparison of four methods of determining viability in human dermal fibroblasts irradiated with blue light. *J Pharmacol Toxicol Methods*, 79, 15-22, 2016.
7. **Masson-Meyers DSs**, Bumah VV, Biener G, Raicu V, Enwemeka CS. The relative antimicrobial effect of blue 405 nm LED and blue 405 nm laser on methicillin-resistant *Staphylococcus aureus in vitro*. *Lasers Med Sci*, 30, 2265-2271, 2015.
8. Bumah VV, **Masson-Meyers DS**, Enwemeka CS. Blue 470 nm light suppresses the growth of *Salmonella enterica* and Methicillin-resistant *Staphylococcus* (MRSA) *in vitro*. *Lasers Surg Med*, 47 (7), 595-601, 2015.
9. Daum LT, Bumah VV, **Masson-Meyers DS**, Khubbar M, Rodriguez JD, Fischer GW, Enwemeka CS, Gradus S, Bhattacharyya S. Whole Genome Sequence for methicillin-resistant *Staphylococcus aureus* strain: ATCC BAA-1680. *Genome Announcements*, 3(2): e00011-15. DOI:10.1128/genomeA.00011-15, 2015.
10. Bumah VV, **Masson-Meyers DS**, Quirk BK, Buchmann, E, Whelan HT, Enwemeka CS. The bactericidal effect of 470 nm light and hyperbaric oxygen on methicillin-resistant *Staphylococcus aureus* (MRSA). *Lasers Med Sci*, 30 (3), 1153-1159, 2015.

11. Bumah VV, **Masson-Meyers DS**, Cashin S, Enwemeka CS. Optimization of the antimicrobial effect of blue light on methicillin-resistant *Staphylococcus aureus* (MRSA) *in vitro*. *Lasers Surg Med*, 47 (3), 266-272, 2015.
12. Igbokwe H, Bhattacharyya S, Gradus S, Khubbar M, Griswold D, Navidad J, Igwilo C, **Masson-Meyers D**, Azenabor AA. Preponderance of toxigenic *Escherichia coli* in stool pathogens correlates with toxin detection in accessible drinking-water sources. *Epidemiol Infect*, 143 (3), 494-504, 2015.
13. Leite SN, Andrade TAM, **Masson-Meyers DS**, Leite MN, Enwemeka CS, Frade MAC. Phototherapy promotes healing of cutaneous wounds in undernourished rats. *An Bras Dermatol*, 89 (6), 899-904, 2014.
14. **Masson-Meyers DS**, Enwemeka CS, Bumah VV, Andrade TAM, Frade MAC. Topical treatment with *Copaifera langsdorffii* oleoresin improves wound healing in rats. *Int J Phytomed*, 5 (3), 378-386, 2013.
15. **Masson DS**, Salvador S, Polizello ACM, Frade MAC. Antimicrobial activity of copaiba (*Copaifera langsdorffii*) oleoresin on bacteria of clinical significance in cutaneous wounds. *Rev Bras Plantas Med*, 15 (4), Suppl. 1, 664-669, 2013.
16. **Masson-Meyers DS**, Enwemeka CS, Bumah VV, Andrade TAM, Cashin S, Frade MAC. Antimicrobial effects of *Copaifera langsdorffii* oleoresin in infected rat wounds. *Int J Appl Microbiol Sci*, 2(3), 9-20, 2013.
17. **Masson-Meyers DS**, Andrade TAM, Leite SN, Frade MAC. Cytotoxicity and wound healing properties of *Copaifera langsdorffii* oleoresin in rabbits. *Int J Natural Product Science*, 3(3), 10-20, 2013.
18. Bumah VV, **Masson-Meyers DS**, Cashin S, Enwemeka CS. Wavelength and bacterial density influence the bactericidal action of blue light on Methicillin Resistant *Staphylococcus aureus* (MRSA). *Photomed Laser Surg* 31(11): 547-553, 2013.
19. Leite SN, Jordão Jr AA, Andrade TAM, **Masson DD**, Frade MAC. Experimental models of malnutrition and its effect on skin trophism. *An Bras Dermatol*, 86, 681-688, 2011.
20. Morais GG, **Masson DS**, Santos ODH, Rocha-Filho PA. Development of O/W emulsions with annatto oil (*Bixa orellana*) containing liquid crystals. *J Dispersion Sci Technol*, 26, 5, 591-596, 2005.
21. **Masson DS**, Morais GG, Morais JM, Santos, ODH, Andrade FF, Oliveira WP, Rocha-Filho PA. Polyhydroxy alcohols and peach oil addition influence in liquid crystal formation and rheological behaviour of O/W emulsions. *J Dispersion Sci Technol*, 26, 4, 463-468, 2005.

SELECTED PRESENTATIONS (2012 to present)

Masson-Meyers DS, Bumah VV, Biener G, Hussey G, Stoneman M, Raicu V, Enwemeka CS. Alteration of membrane potential in blue laser irradiated methicillin-resistant *Staphylococcus aureus*. Poster presentation at the 3rd Biennial Symposium: Optical Micro-spectroscopy & Molecular Imaging. Milwaukee WI, USA (2015).

Masson-Meyers DS, Bumah VV, Biener G, Raicu V, Enwemeka CS. The relative antimicrobial effect of blue 405 nm Light-emitting diode (LED) and blue 405 nm laser on methicillin-resistant *Staphylococcus aureus* (MRSA) *in vitro*. Poster presentation at Milwaukee Research Forum. Public policy forum viewpoint luncheon. Clinical & Translational Science Institute of Southeast Wisconsin. Milwaukee WI, USA (2014).

Bumah VV, **Masson-Meyers DS**, Biener G, Raicu V, Enwemeka CS. Irradiation interval influences blue light suppression of methicillin-resistant *Staphylococcus aureus in vitro*. Poster session at the North American Association for Light Therapy (NAALT) and (World Association for Laser Therapy (WALT) joint session. Arlington VA, USA (2014).

Bumah VV, **Masson-Meyers DS**, Biener G, Raicu V, Enwemeka CS. Suppression of methicillin-resistant *Staphylococcus aureus* and *Salmonella enterica* growth by blue light. Poster session at the International Union of Microbiological Societies (XIVth International Congress of Bacteriology and Applied Microbiology; XIVth International Congress of Mycology and Eukaryotic Microbiology; XVIth International Congress of Virology). Montreal, Canada (2014).

Bumah VV, Enwemeka, CS, **Masson-Meyers DS**, Quirk B, Buchmann E, Whelan H. The combined bactericidal effect of 470nm light and hyperbaric oxygen (HBO) on methicillin-resistant *Staphylococcus aureus*. Oral session at the 34th Annual Conference of the American Society for Laser Medicine and Surgery. Phoenix AZ, USA (2014).

Masson-Meyers DS, Bumah VV, Biener G, Enwemeka CS. Effects of blue and infrared light irradiation on human fibroblasts in an *in vitro* wound healing model. Poster presentation at the 3rd Annual Meeting of the American College of Wound Healing and Tissue Repair Chicago IL, USA (2013).

Bumah VV, **Masson-Meyers DS**, Awosika O, Zacharias S, Whelan H, Enwemeka CS. *In vitro* effects of blue light on human cell viability. Milwaukee Research Forum. Public policy forum viewpoint luncheon. Poster session of Clinical & Translational Science Institute of Southeast Wisconsin. Milwaukee WI, USA (2013).

Igbokwe H, Bhattacharyya S, Gradus S, Khubbar M, Griwold D, Navidad J, Igwilo C, **Masson-Meyers D**, Azenabor A. Multidrug resistance pattern in *Escherichia coli*: the evolving threat of antimicrobial resistance in a developing country. Poster session at the American Society of Clinical Pathology Annual Meeting. Chicago, IL. USA (2013).

Igbokwe H, Bhattacharyya S, Gradus S, Khubbar M, Griwold D, Navidad J, Igwilo C, **Masson-Meyers D**, Azenabor A. Chronic Contamination of Drinking Water Sources by Diarrheagenic *Escherichia coli*: A Relationship between Environmental Localization and Clinical Disease. Poster session at FEMS. 5th Congress of European Microbiologists. Leipzig, Germany (2013).

Bumah VV, **Masson-Meyers DS**, Bhattacharyya S, Khubbar M, Gradus S, Whelan H, Enwemeka CS. Molecular analysis of blue light irradiated Methicillin Resistant *Staphylococcus aureus* (MRSA). Milwaukee Research Forum. Public policy forum viewpoint luncheon. Poster session of Clinical & Translational Science Institute of Southeast Wisconsin. Milwaukee WI, USA (2012).

Bumah VV, **Masson-Meyers DS**, Enwemeka CS. Blue light irradiation of Methicillin Resistant *Staphylococcus aureus* (MRSA) and human dermal fibroblasts. Oral session at the World Association for Laser Therapy (WALT) Congress. Gold Coast, Australia (2012).

Masson-Meyers DS, Andrade TAM, Frade MA. *Copaifera langsdorffii* oleoresin promotes healing and retards bacterial infection in experimental wounds. Poster presentation at the 2nd Meeting of the American College of Wound Healing and Tissue Repair. Chicago IL, USA (2012).

Bumah VV, **Masson DS**, Enwemeka CS. Mechanisms of photo-eradication of Methicillin Resistant *Staphylococcus aureus* (MRSA). Poster session at the 32nd Annual Conference of the American Society for Laser Medicine and Surgery. Kissimmee FL, USA (2012).

Andrade TAMm, Malachias VAT, Caetano GF, **Masson DS**, Jordão-Jr AA, Landim CAP, Frade MAC. Oxidative stress and histopathological differences on the skin of diabetes mellitus compromised rats. Poster session at the 15th International & 14th European Congress of Endocrinology. Florence, Italy (2012).

Andrade TAM, Caetano GF, **Masson DS**, Landim CAP, Coutinho-Netto J, Foss MC, Frade MAC. Protein from *Hevea brasiliensis* latex rubber tree enhances wound healing in diabetic rats. Poster session at the 15th International & 14th European Congress of Endocrinology. Florence, Italy (2012).

JOURNAL/ GRANT REVIEWER

- ✓ Lasers in Surgery and Medicine. Basic Science manuscript. September and October, 2015
- ✓ Journal of Photochemistry and Photobiology B: Biology. Full length article. January and April, 2015
- ✓ Diabetes UK, Italy. Grant application proposal. July, 2014

HONORS

Leite SN, Minatel DG, **Masson DS**, Andrade TAM, Enwemeka CS, Frade MAC. Phototherapy accelerates healing of cutaneous wounds in undernourished rats. Symposium of Experimental Pathology. School of Medicine of Ribeirao Preto, University of Sao Paulo. Brazil (2010). Poster.

RESEARCH SUPPORT/ GRANTS

San Diego State University Research Foundation. \$281,417 Effect of blue light on <i>Propionibacterium acnes</i> : Time-kill studies II Role: Special Consultant	7/1/2016 – 10/31/2017
San Diego State University Research Foundation. \$157,937 Effect of blue light on <i>Propionibacterium acnes</i> : Time-kill studies Role: Co-investigator	7/1/2015 – 4/14/2016

University of Wisconsin-Milwaukee. College of Health Sciences Stimulus Program to Accelerate Research Clusters (SPARC) Grant. \$25,000 Mechanisms of blue light phototoxicity in Methicillin Resistant <i>Staphylococcus aureus</i> Role: Co-investigator	4/4/2013 - 6/30/2015
University of Wisconsin-Milwaukee. College of Health Sciences (CHS) CHS Stimulus for Extramural Enhancement & Development (SEED) Grant. \$10,000 Molecular analysis of blue light irradiated Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA) Role: Co-investigator	3/1/2013 - 2/28/2014
University of Wisconsin-Milwaukee Research Foundation Bradley Foundation Catalyst Grant. \$55,000 Development of a light delivery system that optimizes bacterial eradication Role: Co-investigator	7/1/2012-12/31/2014

TEACHING EXPERIENCE

Instructor/ Lab Supervisor (2013-2015). College of Health Sciences, **University of Wisconsin-Milwaukee, USA.** Photomedicine Laboratory: trained 6 students in laboratory safety and basic techniques in biomedical sciences such as the use of equipment, preparation of solutions, cell culture and viability assays. (2013) “Future Success Program” for high school students: DNA Testing - Gel Electrophoresis.

Instructor and Lab/Program coordinator (2012). College of Health Sciences, **University of Wisconsin-Milwaukee, USA.** “American Indian Science Scholars Program”: DNA extraction and precipitation; DNA Testing; Fingerprinting and Hair Analysis - and participated in the program planning and coordination.

Teacher assistant (February to July, 2009). School of Pharmaceutical Sciences of Ribeirao Preto, **University of Sao Paulo, Brazil.** Courses: Bacteriology in the undergraduate program in Pharmacy.

Teacher assistant (August to December, 2004). School of Pharmaceutical Sciences of Ribeirao Preto, **University of Sao Paulo, Brazil.** Courses: Pharmaceutical Compounding II in the undergraduate program in Pharmacy.

Lecturer (February, 2000 to December, 2001). **Federal University of Mato Grosso do Sul, Brazil.** Course: Pharmaceutical Compounding in the undergraduate program in Pharmacy.

Instructor (2000-2001). **Federal University of Mato Grosso do Sul, Brazil.** Course: Immunology in the Clinical laboratory technician program.

Instructor (2000). **Federal University of Mato Grosso do Sul, Brazil.** Course: Supervised Training in Clinical Laboratory Analysis - Session Immunology in the undergraduate program in Pharmacy with emphasis in Clinical Laboratory Analysis.

Teacher assistant (February to December, 1999). **Federal University of Mato Grosso do Sul, Brazil.** Course: Pharmaceutical Compounding. Undergraduate program in Pharmacy.

PROFESSIONAL DEVELOPMENT (at the University of Wisconsin-Milwaukee)

Satellite Hazardous Waste Generator Annual Training (September 29, 2014)
Human Subject Research at UWM (October 4, 2013)
Responsible Conduct of Research (Fall, 2013. 13 hours of responsible conduct of research education)
Financial Conflict of Interest in PHS-Funded Research (May 20, 2013)
CHS Spring 2013 Research Symposium (May 3, 2013)
OSP and the Proposal Submission Process (February 22, 2013)
The Basics of UWM Records Management (February 20, 2013)
Grant Writing Basics: Finding Funding Opportunities (February 15, 2013)
Office Waste Training (February 7, 2013)
College of Health Sciences Fall 2012 Research Symposium (December 7, 2012)
I've Got a Grant! Now What? (November 16, 2012)
Management of Student Records (November 15, 2012)
Grant Writing Basics: Proposal Writing (October 26, 2012)
Hazardous Waste Generator Training for Lab Personnel (October 25, 2012)
CHS Spring 2012 Research Symposium (May 4, 2012)

Chemical Safety: Air Sensitive and Peroxide-Formers; Flammable Gas and Cryogenic Safety Training; Automatic External Defibrillator Familiarization Training (March 9, 2012)
 CHS - Faculty Research Forum: Understanding the Agency Review Process (March 2, 2012)
 Chemical Hygiene Plan and Laboratory Safety Training (March 2, 2012)
 Clinical Trials & Genetic Research; Research with Minority Populations (November 19, 2010)
 Data Management (November 12, 2010)
 Conflict of Interest; Mentorship (November 5, 2010)
 Animal Research and Welfare (October 29, 2010)
 Ownership, Authorship, Publication Processes, Peer Review, Plagiarism (October 15, 2010)
 Scientific Misconduct and History of Research Abuses (October 1, 2010)
 Codes of Professional and Research Ethics and Human Subjects Review (October 8, 2010)
 Research Initiatives & Development Funding Opportunities (September 24, 2010)
 Satellite Hazardous Waste Generator. Annual training (March 1, 2010)

CONTINUING MEDICAL EDUCATION (USA)

North American Center for Continuing Medical Education, LLC (NACCME)

- The integumentary system. 1 *AMA PRA* Category 1 Credit(s)TM (01/14/2014)
- A new paradigm in topical antimicrobial technology: Maintaining bacterial balance. 1 *AMA PRA* Category 1 Credit(s)TM (02/19/2013)
- Managing wound infections: demystifying the role of topical antimicrobials. 0.75 *AMA PRA* Category 1 Credit(s)TM (02/13/2013)
- The development of diagnostics in wound care: Proteases and chronic wound healing; Moving beyond clinical inertia. (12/22/2011)
- Innovative approaches to managing chronic wounds with biofilm. 1 *AMA PRA* Category 1 Credit(s)TM (10/25/2011)
- Chronic wounds: the role of MMPs, reactive oxygen species, and bacteria on inflammation. 0.75 *AMA PRA* Category 1 Credit(s)TM (10/19/2011)
- Enhancing healing of venous leg ulcers with compression therapy. 1 *AMA PRA* Category 1 Credit(s)TM (06/25/2010)
- The Symposium on Advanced Wound Care. 11 *AMA PRA* Category 1 Credit(s)TM (04/17-19/2010)

Ciné-Med Continuing Medical Education

- American College of Wound Healing and Tissue Repair Meeting. 12.50 *AMA PRA* Category 1 Credit(s)TM (12/6-7/2013)
- American College of Wound Healing and Tissue Repair Meeting. 16.00 *AMA PRA* Category 1 Credits(s)TM (7/26-28/2012)

ADDITIONAL SKILLS

- Aptitude to perform analyses requiring good manual dexterity, accuracy and precision
- Ability to implement research projects, manage and execute multiple projects simultaneously, collaborate in interdisciplinary projects and work independently
- Expertise in data collection, analysis, graph plotting, and design and creation/production of scientific posters
- Proficient in Microsoft word, excel and power point, GraphPad Prism, and image processing and analysis (ImageJ)
- Experienced in organizing data, writing and editing detailed reports and with the submission process of research papers for peer-reviewed journals
- Detail oriented, strong organizational, time management and planning skills
- Strong inter-personal skills with experience in training and supervising undergraduate and graduate students

U.S. Permanent Resident • Portuguese Fluency