



College of Osteopathic Medicine - Faculty Research Interests 2019

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Faculty	Research Interests
Hywda A. Arafat, M.D., Ph.D., MSc.MEd <i>Clinical Professor</i> harafat@une.edu	<ul style="list-style-type: none"> Investigating topics in medical education and identifying development demands through introducing curricular modifications to serve as tools for the development of both faculty and students
Geoffrey Bove, D.C., Ph.D. <i>Research Professor</i> gbove@une.edu	<ul style="list-style-type: none"> Effects of inflammation on nerves and axons Pain mechanisms due to peripheral nerve disorders Manual therapy for prevention of repetitive motion disorders
Carol A. Brenner, Ph.D. cbrenner1@une.edu <i>Professor; Associate Dean, Research & Scholarship</i>	<ul style="list-style-type: none"> Mitochondrial biology Reproductive sciences Infertility Rural and underserved medicine Clinical Research
Kathleen Becker, Ph.D. <i>Assistant Professor</i> kbecker3@une.edu	<ul style="list-style-type: none"> Bone formation and cross-talk between bone, fat, and the nervous system Development and utilization of novel genetic models for the study of disease
Mark Brezinski, M.D., Ph.D., CPT <i>Adjunct Faculty</i> mbrezinski@une.edu	<ul style="list-style-type: none"> Early detection of arthritis Injury prevention with a focus on gait analysis and correction Understanding and imaging vulnerable coronary plaque
Ling Cao, M.D., Ph.D. <i>Professor</i> lcao@une.edu	<ul style="list-style-type: none"> Neuroimmune mechanisms of chronic pain and HIV-associated neurological disorders Chronic pain related clinical/population studies
Frank J. Daly, Ph.D. <i>Associate Professor</i> fdaly@une.edu	<ul style="list-style-type: none"> Vertebrate retinal biology Anatomical Educational Practices
Stuart N. Damon, D.O., M.S. <i>Assistant Clinical Professor</i> sdamon@une.edu	<ul style="list-style-type: none"> Cognitive Load Theory applied to simulation Asperger autism Rural medicine
Russell J. Ferland, Ph.D., Professor; Chair, Dept. of Biomedical Sciences rferland2@une.edu	<ul style="list-style-type: none"> Primary cilia in developmental disorders Genetics and mechanisms of epileptogenesis (epilepsy)
Diana Goode, Ph.D. <i>Assistant Professor</i> dgoode@une.edu	<ul style="list-style-type: none"> Neuro-immune interactions in pain HIV pathogenesis & peripheral neuropathy
Eliza Grlickova-Duzevik, M.D., Ph.D. <i>Assistant Clinical Prof.</i> egrlickovaduzevik@une.edu	<ul style="list-style-type: none"> Bioinformatics Neuroscience Molecular and cellular Biology
Marilyn R. Gugliucci, M.A., Ph.D., Professor <i>Dir., Geriatrics Educ. & Research</i> mgugliucci@une.edu	<ul style="list-style-type: none"> Learning by Living: Nursing Home Immersion Research 48 Hour Hospice Home Immersion Research Balancing Act Falls Prevention Research Virtual Reality Education Research
Benjamin Harrison, Ph.D. <i>Assistant Professor</i> bharrison2@une.edu	<ul style="list-style-type: none"> Neuroplasticity and Genomics
Jodie Hermann, D.O., FACOI, FACP, MBA <i>Assistant Clinical Professor; Chair, OMM</i> jhermann@une.edu	<ul style="list-style-type: none"> Osteopathic Manipulation and Osteoarthritis Osteopathic Manipulation and COPD in Nursing Home Patients Sub-concussive Head Impacts in Ice Hockey: Post-game considerations
Selma C. Holden, M.D., M.P.H., M.S. <i>Assistant Clinical Professor</i> sholden1@une.edu	<ul style="list-style-type: none"> Analyzing the effects of prenatal yoga on maternal wellness and mobility Botanical approaches to medication assisted treatment
Karen Houseknecht, Ph.D., Professor; Associate Provost for Research & Scholarship khouseknecht@une.edu	<ul style="list-style-type: none"> Integration of neuroscience/metabolism; molecular regulation of mood/metabolism (diabetes) Pharmacology: Efficacy & side of effects of psychiatric medications and drugs of abuse Novel therapeutics: Treatment of metabolic syndrome, psychosis & pain-based diseases



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Tamara King, Ph.D. <i>Associate Professor</i> tking6@une.edu	<ul style="list-style-type: none"> • Mechanisms underlying cancer-induced bone pain • Mechanisms underlying advanced osteoarthritis induced pain
Meghan May, M.S., Ph.D. <i>Professor</i> mmay3@une.edu	<ul style="list-style-type: none"> • Pathogen Evolution and Genomics; Emerging Infectious Diseases Mechanisms of infection-mediated pain Improved Clinical Diagnostics for Infections and case reports in Infectious Disease
Ian D. Meng, Ph.D. <i>Professor; Director, Ctr - Biomedical Research Excellence (COBRE); Director, Ctr - Excellence in the Neurosciences</i> imeng@une.edu	<ul style="list-style-type: none"> • Migraine headache; Medication overuse headache • Transformation of migraine headache to chronic daily headache Chronic Dry Eye Syndrome
Derek C. Molliver, Ph.D. <i>Associate Professor</i> dmolliver@une.edu	<ul style="list-style-type: none"> • Signal transduction and proteomics in chronic pain Control of neuronal response properties through changes in modular signaling complexes G protein-coupled receptor signaling pathways
Joy Palmer, D.O. <i>Adjunct Clinical Faculty; Program Dir., NMM Residency</i> jpalmer@une.edu	<ul style="list-style-type: none"> • OMM in the VA Population Post-graduate Curriculum in the NMM Plus One year
Rebecca J. Rowe, Ph.D. <i>Associate Professor</i> rowe@une.edu	<ul style="list-style-type: none"> • Medical Education Research
Mark Schuenke, Ph.D. <i>Professor; Associate Chair, Biomedical Sci. Dept.</i> mschuenke@une.edu	<ul style="list-style-type: none"> • Anatomical and biomechanical relationships related to lumbopelvic pain Peripheral nerve entrapment Countermeasures to age-related muscle atrophy and diabetes
Ryan M. Smith, D.O., M.Ed., FAPA, FFSMB, FNAOME, Asst. Clinical Professor rsmith8@une.edu	<ul style="list-style-type: none"> • Medical student/resident physician mental health Electroconvulsive therapy Suicide/psychiatric disorders and treatment Standardized test assessment preparation methods
Douglas Spicer, Ph.D., M.MEdL <i>Associate Professor</i> dspicer@une.edu	<ul style="list-style-type: none"> • Innovations in medical education Active learning pedagogies in medical education
Christoph Straub, Ph.D. <i>Assistant Professor</i> cstraub@une.edu	<ul style="list-style-type: none"> • Neuroscience Neurophysiology Microcircuits Chronic Pain
Victoria S. Thieme, D.O., Clinical Associate Professor; Dir., Clinical Experience vthieme@une.edu	<ul style="list-style-type: none"> • Substance Use Disorders in Rural Clinics Geriatrics Inter-professional Work Movement Therapy with Older Adults Nutrition in Older Adults Intellectual Developmental Disabilities Osteopathy
Kathryn Thompson, Ph.D. <i>Professor</i> ktompson@une.edu	<ul style="list-style-type: none"> • Cognitive integration of basic and clinical sciences to improve learning and retention • Culinary medicine Concept mapping, team based learning
Kerry L. Tucker, Ph.D. <i>Associate Professor</i> ktucker2@une.edu	<ul style="list-style-type: none"> • Primary cilia and pain processing Primary cilia and brain development and function Mouse models of congenital heart defects
Susan Wehry, MD swehry@une.edu <i>Chief of Geriatrics, Primary Care</i>	<ul style="list-style-type: none"> • Effect of enhanced self-efficacy on optimal aging Use of digital technology by persons living with dementia Reframing the physician burnout narrative
Frank Willard, Ph.D. <i>Professor of Anatomy</i> fwillard@une.edu	<ul style="list-style-type: none"> • Neurovascular anatomy of the cervical and lumbosacral spine Myofascial and ligamentous support system of the lumbosacral spine and its dysfunction in patients with low back pain
Barbara Winterson, Ph.D. <i>Professor</i> bwinterson@une.edu	<ul style="list-style-type: none"> • Vision and eye movements Pain and movement Assessment in medical education