College of Osteopathic Medicine - Faculty Research Interests 2024

www.une.edu/com/research

Faculty	Research Interests
Kathleen Becker, PhD *Assistant Professor* kbecker3@une.edu	• Bone formation and cross-talk between bone, fat, and the nervous system Becker lab: https://www.une.edu/people/kathleen-becker
Ling Cao, M.D., PhD *Professor* lcao@une.edu	• Neuroimmune mechanisms of chronic pain and HIV-associated neurological disorders | Chronic pain related clinical/population studies | Cao Lab: https://www.une.edu/people/ling-cao
Stuart N. Damon, DO, MS *Associate Clinical Professor* sdamon@une.edu	• Using the NASA TLX to determine optimal cognitive load in high fidelity simulation among Osteopathic medical students | Identifying & confirming properties of counterstrain points using ultrasonography
Russ Ferland, PhD, *Professor; Chair, Dept. of Biomedical Sciences* rferland2@une.edu	• Genetics & mechanisms of epileptogenesis (epilepsy) | Primary cilia in developmental disorders | FMI: https://www.une.edu/people/russ-ferland
Charilaos (Harry) Filippakis, PhD *Assistant Professor* cfilippakis@une.edu	• Cancer metabolism and mechanisms of aberrant mTOR activation Filippakis lab: https://www.une.edu/people/charilaos-harry-filippakis
Diana Goode, PhD *Assistant Professor* dgoode@une.edu	• Neuron – CD4+ T cell communication | Chemotherapy-induced peripheral neuropathy Goode lab: https://www.une.edu/people/diana-j-goode
Eliza Grlickova-Duzevik, MD, PhD *Asst. Clinical Professor* egrlickovaduzevik@une.edu	• Bioinformatics | Neuroscience | Molecular and cellular biology | Culinary Medicine FMI: https://www.une.edu/people/eliza-grlickova-duzevik
Marilyn R. Gugliucci, MA, PhD, *Professor Dir. of Geriatrics Research* mgugliucci@une.edu	• 48 Hour Hospice Home Immersion Research | Balancing Act Falls Prevention Research | Virtual Reality Education Research | MMC Gender Institute Student Research Liaison
Benjamin Harrison, PhD *Associate Professor* bharrison2@une.edu	• Neuroplasticity and Genomics Harrison lab: https://www.une.edu/people/benjamin-j-harrison
Selma C. Holden, MD, MPH, MS *Clinical Associate Professor* sholden1@une.edu	• Ketamine Assisted Psychotherapy in the General Population | MDMA Assisted Psychotherapy for Post Traumatic Stress | FMI: https://www.une.edu/people/selma-holden
Karen Houseknecht, PhD, *Professor and Associate Provost* khouseknecht@une.edu	• View Dr. Houseknecht's vast research interests: https://www.une.edu/people/karen-l-houseknecht
Tamara King, PhD *Professor* tking6@une.edu	• Mechanisms underlying cancer-induced bone pain | Mechanisms underlying advanced osteoarthritis induced pain | King lab: https://www.une.edu/people/tamara-king
Ian D. Meng, PhD, *Prof.; Director of COBRE & Ctr for Excellence in Neuroscience* imeng@une.edu	• Dry eye disease | Trigeminal pain | Neuroplasticity and chronic pain Meng lab: https://www.une.edu/people/ian-d-meng
Derek C. Molliver, PhD, *Prof.; Director of COBRE* dmolliver@une.edu	• Cell signaling | Mitochondrial dynamics | Proteomics in chronic pain Molliver Lab: https://www.une.edu/people/derek-molliver

NOTE: The UNE COM faculty listed on this document are either conducting active research or, if not, are open to discussing their research interests with COM students as well as possibly directing students to someone who shares the student's research interests.

(1) Additional **research resources** for UNE COM medical students: https://une1.sharepoint.com/teams/COM/Research/Resources/SitePages/Resources.aspx

(2) UNE has several **centers and institutes** in support of research & scholarship designed to promote interdisciplinary research: https://www.une.edu/research/centers

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Faculty	Research Interests
Stacey Pierce-Talsma, DO, MS, FNAOME *Assoc. Dean, Academic Affairs* spiercetalsma@une.edu	• Osteopathic manipulative medicine | Innovation in medical education | Yoga FMI: https://www.une.edu/people/stacey-l-pierce-talsma-0
Luis Queme, MD, PhD *Assistant Professor* lqueme@une.edu	• Peripheral Mechanisms of Somatosensation, Musculoskeletal Pain, Stress, Neuroimmune interactions. Queme lab: https://www.une.edu/people/luis-f-queme
Rebecca J. Rowe, PhD *Associate Professor* rrowe@une.edu	• Medical Education Research
Mark Schuenke, PhD mschuenke@une.edu *Professor; Associate Chair, Biomedical Sci. Dept*	• Anatomical and biomechanical relationships related to lumbopelvic pain | Peripheral nerve entrapment | Countermeasures to age-related muscle atrophy and diabetes
Kyle R. Scully, PhD *Associate Clinical Professor* kscully3@une.edu	• Prehospital emergency medicine and natural products
Douglas Spicer, PhD, MMEdL *Professor* dspicer@une.edu	• Innovations in medical education | Active learning pedagogies in medical education | Clinical reasoning skills | For more information | FMI: https://www.une.edu/people/douglas-b-spicer
Joel M. Talsma, MS *Assistant Clinical Professor* jtalsma@une.edu	• Surgical approaches in pediatric surgery | Neurovascular anatomy of human joints | Relationship of fascia and connective tissue in sports related injuries
Kerry L. Tucker, PhD *Associate Professor* ktucker2@une.edu	• Primary cilia and pain processing | Primary cilia and brain development and function | Mouse models of congenital heart defects | Tucker Lab: https://www.une.edu/people/kerry-l-tucker
Susan Wehry, MD swehry@une.edu *Director, AgingME, Geriatrics, Primary Care*	• Post Pandemic Growth and Recovery | Cognitive Changes with Aging | Optimal Engagement of People Living with Dementia | Age Friendly Communities and Dementia Inclusivity
Frank Willard, PhD *Professor* fwillard@une.edu	• Neurovascular anatomy of the cervical & lumbosacral spine | Myofascial & ligamentous support system of the lumbosacral spine & its dysfunction in patients with low back pain

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