



# College of Osteopathic Medicine - Faculty Research Interests 2022

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Faculty	Research Interests
<b>Kathleen Becker, PhD</b> <i>Assistant Professor</i> <a href="mailto:kbecker3@une.edu">kbecker3@une.edu</a>	<ul style="list-style-type: none"> <li>• Bone formation and cross-talk between bone, fat, and the nervous system  </li> <li>• Development and utilization of novel genetic models for the study of disease</li> </ul>
<b>Carol A. Brenner, PhD</b> <a href="mailto:cbrenner1@une.edu">cbrenner1@une.edu</a> <i>Clinical Prof.; Assoc. Dean, Research &amp; Scholarship</i>	<ul style="list-style-type: none"> <li>• Mitochondrial biology   Clinical Research   Reproductive sciences   Infertility  </li> <li>• Rural and underserved medicine   Public Health Research   Pregnancy and COVID-19</li> </ul>
<b>Ling Cao, M.D., PhD</b> <i>Professor</i> <a href="mailto:lcao@une.edu">lcao@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuroimmune mechanisms of chronic pain and HIV-associated neurological disorders  </li> <li>• Chronic pain related clinical/population studies</li> </ul>
<b>Stuart N. Damon, DO, MS</b> <i>Assistant Clinical Professor</i> <a href="mailto:sdamon@une.edu">sdamon@une.edu</a>	<ul style="list-style-type: none"> <li>• Cognitive Load Theory applied to simulation   Asperger autism   Rural medicine</li> </ul>
<b>Russell J. Ferland, PhD,</b> <i>Professor; Chair, Dept. of Biomedical Sciences</i> <a href="mailto:rferland2@une.edu">rferland2@une.edu</a>	<ul style="list-style-type: none"> <li>• Primary cilia in developmental disorders   Genetics &amp; mechanisms of epileptogenesis (epilepsy)</li> </ul>
<b>Charilaos (Harry) Filippakis, PhD</b> <i>Assistant Professor</i> <a href="mailto:cfilippakis@une.edu">cfilippakis@une.edu</a>	<ul style="list-style-type: none"> <li>• Mechanisms of aberrant mTORC1 activation   Macropinocytosis   Metabolic reprogramming in Tuberous Sclerosis Complex (TSC) and Lymphangiomyomatosis (LAM)   Cancer metabolism</li> </ul>
<b>Diana Goode, PhD</b> <i>Assistant Professor</i> <a href="mailto:dgoode@une.edu">dgoode@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuro-immune interactions in pain   HIV pathogenesis &amp; peripheral neuropathy</li> </ul>
<b>Eliza Grlickova-Duzevik, MD, PhD</b> <i>Assistant Clinical Prof.</i> <a href="mailto:egrlickovaduzevik@une.edu">egrlickovaduzevik@une.edu</a>	<ul style="list-style-type: none"> <li>• Bioinformatics   Neuroscience   Molecular and cellular biology   Culinary Medicine</li> </ul>
<b>Marilyn R. Gugliucci, MA, PhD,</b> <i>Professor</i> <i>Dir. of Geriatrics Research</i> <a href="mailto:mgugliucci@une.edu">mgugliucci@une.edu</a>	<ul style="list-style-type: none"> <li>• 48 Hour Hospice Home Immersion Research   Balancing Act Falls Prevention Research  </li> <li>• Virtual Reality Education Research   MMC Gender Institute Student Research Liaison</li> </ul>
<b>Benjamin Harrison, PhD</b> <i>Assistant Professor</i> <a href="mailto:bharrison2@une.edu">bharrison2@une.edu</a>	<ul style="list-style-type: none"> <li>• Neuroplasticity and Genomics</li> </ul>
<b>Selma C. Holden, MD, MPH, MS</b> <i>Clinical Associate Professor</i> <a href="mailto:sholden1@une.edu">sholden1@une.edu</a>	<ul style="list-style-type: none"> <li>• Ketamine Assisted Psychotherapy in the General Population  </li> <li>• MDMA Assisted Psychotherapy for Post Traumatic Stress</li> </ul>
<b>Karen Houseknecht, PhD,</b> <i>Professor and Associate Provost</i> <a href="mailto:khouseknecht@une.edu">khouseknecht@une.edu</a>	<ul style="list-style-type: none"> <li>• To learn more about Dr. Houseknecht's vast research interests, please visit: <a href="https://www.une.edu/people/karen-l-houseknecht">https://www.une.edu/people/karen-l-houseknecht</a></li> </ul>
<b>Tamara King, PhD</b> <i>Professor</i> <a href="mailto:tking6@une.edu">tking6@une.edu</a>	<ul style="list-style-type: none"> <li>• Mechanisms underlying cancer-induced bone pain  </li> <li>• Mechanisms underlying advanced osteoarthritis induced pain</li> </ul>
<b>Meghan May, MS, PhD</b> <i>Professor</i> <a href="mailto:mmay3@une.edu">mmay3@une.edu</a>	<ul style="list-style-type: none"> <li>• Pathogen Evolution &amp; Genomics; Emerging Infectious Diseases   Mechanisms of Infection-mediated Pain   Improved Clinical Diagnostics for Infections &amp; Case Reports in Infectious Disease</li> </ul>

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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<b>Ian D. Meng, PhD, Prof.;</b> Director of <b>COBRE &amp; Ctr for Excellence in Neuroscience</b> <a href="mailto:imeng@une.edu">imeng@une.edu</a>	<ul style="list-style-type: none"> <li>Migraine headache; Medication overuse headache   Transformation of migraine headache to chronic daily headache   Chronic Dry Eye Syndrome</li> </ul>
<b>Derek C. Molliver, PhD</b> Professor <a href="mailto:dmolliver@une.edu">dmolliver@une.edu</a>	<ul style="list-style-type: none"> <li>Signal transduction and proteomics in chronic pain   G protein-coupled receptor signaling pathways   Pain, metabolism and mitochondrial medicine</li> </ul>
<b>Stacey Pierce-Talsma, DO, MS, FNAOME</b> Assoc. Dean, Academic Affairs <a href="mailto:spiercetalsma@une.edu">spiercetalsma@une.edu</a>	<ul style="list-style-type: none"> <li>Osteopathic manipulative medicine   Innovation in medical education   Yoga</li> </ul>
<b>Rebecca J. Rowe, PhD</b> Associate Professor <a href="mailto:rrowe@une.edu">rrowe@une.edu</a>	<ul style="list-style-type: none"> <li>Medical Education Research</li> </ul>
<b>Mark Schuenke, PhD</b> Professor; Associate Chair, Biomedical Sci. Dept. <a href="mailto:mschuenke@une.edu">mschuenke@une.edu</a>	<ul style="list-style-type: none"> <li>Anatomical and biomechanical relationships related to lumbopelvic pain   Peripheral nerve entrapment   Countermeasures to age-related muscle atrophy and diabetes</li> </ul>
<b>Kyle R. Scully, PhD</b> Assistant Clinical Professor <a href="mailto:kscully3@une.edu">kscully3@une.edu</a>	<ul style="list-style-type: none"> <li>Prehospital emergency medicine and natural products</li> </ul>
<b>Ryan M. Smith, DO, MEd, PhD</b> Associate Clinical Prof.; Chief, Psychiatry <a href="mailto:rsmith8@une.edu">rsmith8@une.edu</a>	<ul style="list-style-type: none"> <li>Medical student/resident physician mental health   Electroconvulsive therapy   Suicide/psychiatric disorders &amp; treatment   Standardized test assessment preparation methods</li> </ul>
<b>Douglas Spicer, PhD, MMEdL</b> Associate Professor <a href="mailto:dspicer@une.edu">dspicer@une.edu</a>	<ul style="list-style-type: none"> <li>Innovations in medical education   Active learning pedagogies in medical education   Clinical reasoning skills</li> </ul>
<b>Joel M. Talsma, MS</b> Assistant Clinical Professor <a href="mailto:jtalsma@une.edu">jtalsma@une.edu</a>	<ul style="list-style-type: none"> <li>Surgical approaches in pediatric surgery   Neurovascular anatomy of human joints   Relationship of fascia and connective tissue in sports related injuries</li> </ul>
<b>Kerry L. Tucker, PhD</b> Associate Professor <a href="mailto:ktucker2@une.edu">ktucker2@une.edu</a>	<ul style="list-style-type: none"> <li>Primary cilia and pain processing   Primary cilia and brain development and function   Mouse models of congenital heart defects</li> </ul>
<b>Susan Wehry, MD</b> <a href="mailto:swehry@une.edu">swehry@une.edu</a> Director, AgingME, Geriatrics, Primary Care	<ul style="list-style-type: none"> <li>Resilience and Moral Distress Age-Friendly Health Systems   Optimal Engagement of People Living with Dementia   Apathy in dementia</li> </ul>
<b>Frank Willard, PhD</b> Professor <a href="mailto:fwillard@une.edu">fwillard@une.edu</a>	<ul style="list-style-type: none"> <li>Neurovascular anatomy of the cervical &amp; lumbosacral spine   Myofascial &amp; ligamentous support system of the lumbosacral spine &amp; its dysfunction in patients with low back pain</li> </ul>

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