## Molecular Interactions Core

More info: <https://research.missouri.edu/molecular-interactions>

The Molecular Interactions Core (MIC) enhances the research infrastructure by ensuring sustained access to functional state-of-the-art equipment and expertise in the fields of structural biology, molecular interactions, and peptide synthesis. MIC provides equipment maintenance and infrastructure support for research, structural biology and molecular interactions computational support, and an interface for MU researchers seeking structural biology and molecular interactions expertise on campus. MIC includes a Peptide Synthesis Core that provides synthetic peptides in milligram to gram quantities containing non-natural amino acids, metal chelators, peptide-nucleic acid (PNA) conjugates, phospho-peptides, multiple antigen peptides (MAPs), cyclic peptides, and fluorescent-tagged peptides to researchers across MU. Additional faculty and equipment at MIC include a Rigaku SuperNova with Pilatus 200K detector X-Ray System, instrumentation for dynamic light scattering and thermophoresis, and a robotic pipetting system. Very recently, a cutting-edge circular dichroism instrument has been acquired through an S10 grant (Tanner) from the National Institutes of Health. This instrument also has the additional capability of fluorescence anisotropy measurements. The MIC also provides services for protein purification and nanodisc assembly for insoluble membrane proteins.