

Biochemistry and Molecular Biology, Wayne State University: Departmental Faculty

PRIMARY FACULTY

- ACKERMAN**, Sharon H., Associate Professor. Ph.D., New York University, 1987; postdoctoral, Columbia University, 1987-91. Assembly of the mitochondrial F₁F₀ ATPase of *Saccharomyces cerevisiae*. sackerm@med.wayne.edu
- AKINS**, Robert A., Professor. Ph.D., Ohio State University, 1982; postdoctoral, St. Louis University Medical Center, 1982-86. Investigating causes for the microbial progression from bacterial vaginosis to cure to recurrence. Development of a BV diagnostic and prognostic device. Development and validation of molecular tools for high throughput, quantitative identification of fungi directly from clinical samples. Non-mutation based antifungal resistance mechanisms, including rogue regulators and novel morphotypes in *Candida albicans*. rakins@med.wayne.edu
- BRUSILOW**, William S., Professor. Ph.D., University of Wisconsin, 1980; postdoctoral, Stanford University, 1980-83. Structure and function of the E.coli ATPase. The role of nitrogen metabolism in the inflammatory response. wbrusilo@med.wayne.edu
- EDWARDS**, Brian F.P., Professor. Ph.D., Harvard, 1975; postdoctoral, Harvard University 1974-75; University of Alberta, 1975-80. X-ray crystallography and functional analysis of proteins involved in blood clotting, metal catalyzed enzymology, pyrimidine biosynthesis and multienzyme reactor complexes. bedwards@med.wayne.edu
- EVANS**, David R., Professor. Ph.D., Wayne State University, 1968; postdoctoral, Harvard University, 1968-75. Structure and catalytic mechanism of dihydroorotase and the design of drugs targeting the enzyme. Mechanism of FAM129B, a protein involved breast cancer metastasis and apoptosis. Interdomain signaling and regulation by signaling cascades of proteins catalyzing pyrimidine biosynthesis. drevans@med.wayne.edu
- GATTI**, Domenico L., Associate Professor. M.D., Catholic University of S. Cuore, Rome, Italy, 1982; Ph.D., University of Bari, Italy, 1987; postdoctoral, Columbia University, 1987-91; University of Michigan, 1991-95. Structure of proteins involved in energy transduction in bacterial and eukaryotic membranes. Computational methods in biochemistry, structural biology, and bioinformatics. dgatti@med.wayne.edu
- KOVARI**, Ladislau C., Professor. Ph.D. University of Tennessee Health Science Center, 1992; postdoctoral, Purdue University, 1992-1997. Structure-function studies of viral drug targets using X-ray crystallographic, biochemical, and computational methods. Structure-based drug design. Drug resistance. Ongoing collaborative projects include the study of HIV-1, hepatitis C virus, norovirus, and Ebola virus drug targets. kovari@med.wayne.edu
- LI**, QianQian, Associate Professor, Research. M.D. Nanjing Medical University, 1982; M.Sc., University of Alberta, 1996. Protein-induced pluripotent stem cell technology. Stem cell biology. Stem cell based cancer therapy. Protein-induced in situ cell reprogramming for disease treatment. Stem cell based regenerative medicine. Protein drug delivery technology. qil@med.wayne.edu
- MITRA**, Bharati, **INTERIM CHAIR**, Professor. Ph.D., Cornell University, 1990; postdoctoral, University of Maryland, 1990-94. Structure-function relationships in proteins, enzyme mechanisms. Transition and heavy metal transporting proteins. Role of heavy metals in prostate cancer disparities. bmitra@med.wayne.edu
- NEEDLEMAN**, Richard B., Professor. Ph.D., CUNY, 1975; postdoctoral, Albert Einstein College of Medicine, 1975-78. Control of enzyme synthesis in yeast; mitochondrial genetics; genetics of bacteriorhodopsin / halorhodopsin. meedle@med.wayne.edu
- WANG**, Jianjun, Professor. Ph.D., Nanjing University, 1988; postdoctoral, University of Alberta, 1990-1994. Stem cell biology and induced pluripotent stem cell technology and their clinical applications to treat human diseases such as cancers and heart diseases. Protein-induced in situ Cell reprogramming technology and protein delivery technology. In vivo molecular imaging. Protein-induced cell converting regenerative medicine. Structural Biology using protein NMR techniques. jjwang@med.wayne.edu
- YANG**, Zhe. Associate Professor. Ph.D., Institute of Biophysics, Chinese Academy of Sciences, 1999; postdoctoral, University of California, San Diego, 1999-2002; Emory University, 2002-2006. Structural and functional analysis by X-ray crystallography of interactions between HIV proteins and histone modification complexes. Structure and function of histone methylation in heart development and cardiovascular diseases. zyang@med.wayne.edu

ASSOCIATE FACULTY

- FINLEY**, Russell L., Professor, Center for Molecular Medicine and Genetics. Ph.D., SUNY Upstate Medical University, 1990; postdoctoral, Harvard Medical School and Massachusetts General Hospital 1990-1995. Regulatory networks that control cell proliferation. Cell cycle regulation during Drosophila development. Mapping and analysis of protein interaction networks. rfinley@wayne.edu
- HO**, Ye-Shih, Professor. Ph.D., Carnegie-Mellon University, 1981; postdoctoral, University of California, San Francisco, 1982-85. Transgenic models for the study of lung biology and disease. Regulation of superoxide dismutase gene expression. yho@wayne.edu
- HÜTTEMANN**, Maik, Associate Professor, Ph.D., Philipps University, Germany, 1999; postdoctoral, Wayne State University, 2000-02. Mitochondrial function using genetic and biochemical approaches with a focus on cytochrome c oxidase (COX) and the small electron carrier, cytochrome c. ah6179@wayne.edu
- TSENG**, Yan Yuan. Assistant Professor, Ph.D., University of Illinois at Chicago, 2006; postdoctoral, University of Illinois at Chicago, 2007-2012. Protein structure, function, classification and evolution; single nucleotide polymorphisms; geometric modeling and molecular simulations.

EMERITUS FACULTY

- JOHNSON**, Robert M., Professor (Emeritus). Ph.D., Columbia University, 1970; postdoctoral, Cornell University, 1970-73. Structure and function of erythrocyte membranes; anti-oxidants; globin gene expression. rmjohns@med.wayne.edu