

**Summary Credentials of Mentors**

**Available to Trainees in**

**the M.D./Ph.D. Program**

**2021 – 2022 Academic Year**

**Saint Louis University School of Medicine**

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| **Abate, Getahun, M.D., Ph.D.** | Assistant Professor | Internal Medicine;  Molec. Micro. & Immunol. | Mycobacteriology; development of new  therapeutics (drugs and immunotherapy) and vaccines for tuberculosis and nontuberculous mycobacteria. |
| **Elisa Alspach, Ph.D.** | Assistant Professor | Molec. Micro. & Immunol. | Tumor microenvironment, cancer immunoediting, tumor-specific T cell responses and immunotherapies |
| **Antony, Edwin, Ph.D** | Associate Professor | Biochem. & Molec. Biology | Molecular basis of DNA repair, recombination, and genomic instability. 2. Molecular mechanisms of electron transfer in large enzyme complexes. |
| **Armbrecht, Eric S., Ph.D.** | Associate Professor | Health & Clinical Outcomes Research | Effectiveness/efficiency of chronic disease services, programs and products; Areas of focus: asthma, diabetes, and heart failure. |
| **Aurora, Rajeev, Ph.D.** | Associate Professor | Molec. Micro. & Immunol. | 1) Molecular mechanisms leading to chronic  inflammation, including diet, microbiota and  hormones. 2) Mechanisms that resolve inflammation. 3) Crosstalk between immune  and skeletal systems. |
| **Ayala, Yuna M., Ph.D.** | Associate Professor | Biochem. & Molec. Biology | RNA binding protein function and link to neurodegeneration, including movement disorders and dementia |
| **Baldán, Àngel, Ph.D.** | Associate Professor | Biochem. & Molec. Biology | Control of sterol and lipoprotein homeostasis by non-coding RNAs. Control of hepatic and intestinal triglyceride metabolism |
| **Bishop, Jeffrey, M.D., Ph.D.** | Professor | Health Care Ethics | Historical, political, and philosophical underpinnings of various medical and scientific practices. |
| **Brien, James D., PhD** | Assistant Professor | Molec. Micro & Immunology | Emerging Viral Infectious Diseases; mechanisms of neutralizing antibody; virus selection by the adaptive immune response. |
| **Buchanan, Paula M., Ph.D.** | Associate Professor | Health & Clinical Outcomes Research | Clinical and economic health outcomes in transplantation, diabetes, and cancer. |
| **Butler, Andrew A.,** | Professor | Pharmacology & Physiology | Regulation of carbohydrate & lipid metabolism in relation to the diseases of obesity & aging. |
| **Chakraborty, Anutosh , Ph.D.** | Associate Professor | Pharmacology and Physiology | Understand the mechanisms that cause metabolism diseases to identify and validate novel therapeutic target |
| **Chen, Anping, Ph.D.** | Associate Professor | Pathology | Elucidating mechanisms of liver fibrogenesis, and searching for anti-fibrotic agents for the prevention & treatment of this disease. |
| **Dastvan, Reza, Ph.D.** | Assistant Professor | Biochem& Molec. Biology | Mechanistic principles of membrane transport and kinase release in neoplastic and neurodegenerative diseases. |
| **de Vera, Ian Mitchelle, Ph.D.** | Assistant Professor | Pharmacology & Physiology | Research Interests: Molecular mechanisms of pluripotency; drug discovery targeting orphan nuclear receptors; biomolecular NMR; X-ray crystallography; HIV/AIDS and COVID-19 drug discovery |
| **Di Cera, Enrico, M.D.** | Professor & Chairman | Biochem. & Molec. Biology | Structural enzymology of coagulation factors |
| **DiPaolo, Richard J., Ph.D.** | Professor | Molec. Micro. & Immunol. | Project 1: Understanding how to regulate inflammation to prevent/treat autoimmunity and cancer  Project 2: Understanding immune responses to infectious agents and vaccines to optimize responses |
| **Farr, Susan, Ph.D.** | Professor | Internal Med; Geriatrics;  Pharmacology & Physiology | Age-related dementia. Investigating mechanisms, potential treatments, & risk factors such as TBI & diabetes |
| **Fleming, Robert E., M.D.** | Professor | Pediatrics,  Biochem. & Molec. Biology | Processes regulating cellular iron transport |
| **Ford, David A., Ph.D.** | Professor | Biochem. & Molec. Biology | Biomolecule discovery of mediators and prognostic indicators of sepsis, inflammation and cardiovascular disease. |
| **George, Sarah L., M.D.** | Associate Professor | Internal Medicine;  Mole. Micro. & Immunol. | Vaccine development and measurement of cellular (T and B cells) and innate immunity after vaccination, particularly flaviviruses (dengue, Zika, yellow fever, etc). Human vaccine clinical trials. |
| **Gonzalo-Hervas, Susana, Ph.D.** | Associate Professor | Biochem. & Molec. Biology | Mechanisms contributing to genomic instability in cancer and aging: nuclear architecture, chromatin structure, and DNA repair. |
| **Grucza, Richard, Ph.D.** | Professor | Family and Community Medicine ;SLU Center for Outcomes Research | "Epidemiology of substance use disorders (addiction) and policy influences: 1.) OUD treatment outcomes; 2.) Adolescent trends in substance use and conduct problems; 3.) Alcohol-related morbidity and mortality among older adults." |
| **Hawiger, Daniel, M.D., Ph.D.** | Associate Professor | Molec. Micro. & Immunol. | Regulation of T cell differentiation and functions by Dendritic cells to prevent autoimmune diseases and cancer. |
| **Hinyard, Leslie J., Ph.D.** | Associate Professor, Assoc. Dir. Academic Affairs - SLUCOR | Health & Clinical Outcomes Research | Outcomes of interprofessional/collaborative practice; quality of life in diabetes; clinical and quality of life outcomes in oropharyngeal cancer. |
| **Hoft, Daniel F., M.D., Ph.D.** | Professor & Division Director | Internal Medicine;  Molec. Micro. & Immunol. | Molecular immunologic studies of mucosally invasive intracellular pathogens. |
| **Kornbluth, Jacki, Ph.D.** | Professor | Pathology | Innate immunity against tumors & pathogens, immunotherapy |
| **Kimbell Kornu, MD, PhD.** | Assistant Professor | Health Care Ethics;  Internal Medicine | Historical, philosophical, and theological determinants that shape medical practices |
| **Korolev, Sergey, Ph.D.** | Associate Professor | Biochem. & Molec. Biology | Mechanism of tumor suppressors in cancer. Inhibition of 1) DNA repair pathways for cancer treatment and 2) membrane receptors in pain management. |
| **Liu, Jianguo, M.D., Ph.D.** | Professor | Internal Medicine;  Molec. Micro. & Immunol., | Molecular mechanisms of cytokine gene expression and their immunological activities in autoimmune, tumor and infectious diseases. |
| **Nguyen, Andrew, Ph.D.** | Assistant Professor | Internal Medicine;  Pharmacology & Physiology | Frontotemporal dementia; lysosome biology; lipid metabolism; nucleic acid-based therapeutics |
| **Macarthur, Heather, Ph.D.** | Professor | Pharmacology & Physiology | Vascular Control and Dysfunction in Hypertension and other Disease States. Role of Oxidative Stress in Disease States. Neurodegeneration. |
| **McCommis, Kyle, Ph.D.** | Assistant Professor | Biochem & Molec. Biology | Importance of mitochondrial function in the pathogenesis & treatment of heart failure, diabetes, & nonalcoholic fatty liver disease. |
| **Montano, Adriana, Ph.D.** | Professor | Pediatrics;  Biochem. & Molec. Biology | Newborn screening of mucopolysaccharidoses;  Morquio A disease Treatments for Lysosomal Storage Disorders Cardiovascular effects of glycosaminoglycan accumulation Oral tolerance  Molecular mechanisms of the disease |
| **Peng, Guangyong, M.D., Ph.D.** | Professor | Internal Medicine;  Molec. Micro. & Immunol., | Tumor suppressive microenvironment; and tumor infiltrating Tcells ; tumor vaccine development and immunotherapy. |
| **Pinto, Amelia K., PhD** | Assistant Professor | Molec. Micro. & Immunol | Viral Immunology;  innate and adaptive immune correlates of protections, vaccine efficacy, and the impact of weight and age associated immune defects on protection from viral infections. |
| **Pozzi, Nicola, Ph.D.** | Assistant Professor | Biochem. & Molec. Biology | Mechanisms of thrombosis and immunothrombosis, thrombophilias, autoimmunity, Antiphospholipid Syndrome (APS). |
| **Ray, Ranjit, Ph.D.** | Professor | Internal Medicine;  Molec. Micro. & Immunol. | Virology; immunology; pathogenesis of hepatitis; virus-host interaction; molecular mechanisms of disease. |
| **Ray, Ratna B., Ph.D.** | Professor | Pathology;  Internal Medicine | Transcriptional regulation; tumor biology; microRNA regulation in cancer; epigenetic regulations in cancer; chemoprevention; HCV mediated pathogenesis. |
| **Salter, Erica K., Ph.D.** | Associate Professor | Health Care Ethics; Pediatrics | Clinical ethics consultation; pediatric clinical ethics; standards of medical decision-making. |
| **Salvemini, Daniela, Ph.D.** | Professor & Chair | Pharmacology & Physiology; Internal Medicine | Molecular mechanisms of chronic neuropathic pain and opioid-unwanted actions. Drug discovery and development of novel non-narcotic analgesics. |
| **Skowyra, Dorota, Ph.D.** | Associate Professor | Biochem. & Molec. Biology | 1) DUX4 Proteolysis in FSHD muscular dystrophy – from Mechanism to Applications  2) The ubiquitin-proteasome system as a diagnostic target in alpha1 liver disease. |
| **Sverdrup, Fran M., Ph.D.** | Associate Professor | Biochem. & Molec. Biology | Drug discovery; transcriptional regulation, chemical biology, epigenetic regulation of gene expression in facioscapulohumeral muscular dystrophy (FSHD) |
| **Tavis, John E., Ph.D.** | Professor | Molec. Micro. & Immunol. | Hepatitis B virus reverse transcription; Hepatitis B virus polymerase biochemistry; Hepatitis B virus drug discovery. |
| **Teague, Ryan M., Ph.D.** | Associate Professor | Molec. Micro. & Immunol. | T cell biology, tumor immunology & cancer immunotherapy. |
| **Walker, John K., Ph.D.** | Assistant Professor | Pharmacology & Physiology | Application of synthetic & medicinal chemistry to drug discovery and the development of new small molecule drug therapies. |
| **Yosten, Gina L.C., Ph.D.** | Associate Professor | Pharmacology & Physiology | Role of G protein-coupled receptors in diabetes- and obesity-associated cardiovascular disease; deorphanization of orphan GPCRs. |
| **Zhang, Jinsong, Ph.D.** | Associate Professor | Pharmacology & Physiology | Epigenetic, transcriptional and signaling regulation of gene expression; leukemia fusion proteins; nuclear receptors in diabetes & cancer. |