

**[Dr. Zsolt Bagi, MD, PhD](#)**: His current research program falls into two major areas: the mechanisms through which changes in the coronary microvasculature leads to heart failure in older adults and the mechanisms contributing to the development of brain lesions in patients with cognitive decline and Alzheimer's Disease.

**[Dr. David Blake, PhD](#)**: His work focuses on cortical plasticity as influenced by deep brain stimulation of the basal forebrain and how this can lead to improvements in cognition that could potentially influence the progression of Alzheimer's Disease.

**[Dr. Wendy Bollag, PhD](#)**: Her research investigates the signaling pathways involved in various processes, including the impairment of bone formation and skin function observed with aging.

**[Dr. Laura Carbone, MD](#)**: Her epidemiological projects utilize the Women's Health Initiative (WHI) and other large databases to study diseases of aging, such as arthritis and osteoporosis. Her current area of interest is in the risk of osteoporosis among patients with spinal cord injuries.

**[Dr. Xingjun Fan, PhD](#)**: His research focuses on redox regulation in aging and age-related diseases and in particular, mechanisms resulting in cataractogenesis, oxidative stress and lens epithelial cell fibrosis.

**[Dr. Sadanand Fulzele, PhD](#)**: His research focuses on the role of nutrition (e.g., arginine and vitamin C) and microRNAs (miRNAs) in bone remodeling, osteoporosis and osteoarthritis and their changes with age.

**[Dr. Mark Hamrick, PhD](#)**: His research focuses on muscle and bone aging. Most recently he is investigating the roles of extracellular vesicles (exosomes and microvesicles) and their cargo in age-related diseases.

**[Dr. Carlos Isaales, MD](#)**: His research is focused on the impact of nutrients on epigenetic changes affecting stem cell differentiation and proliferation with aging, and he is an internationally recognized expert in the areas of aging and bone health.

**[Dr. Xin-Yun Lu, MD, PhD](#)**: Her research focuses on understanding the molecular link between metabolic disturbances and neuropsychiatric disorders including age-related neurodegenerative diseases such as Alzheimer's Disease.

**[Dr. Meghan McGee-Lawrence, PhD](#)**: Her research focuses on skeletal epigenetics, hormone signaling, and mechano-biological changes related to aging and utilizes a variety of techniques to understand the functional effects of age-related alterations in bone.

**[Dr. Raghavan Raju, PhD](#)**: His current research is in the broad areas of trauma/injury, sepsis, and aging and in particular the potentially similar role that changes in mitochondrial function may play in these processes.

**[Dr. Dan Rudic, PhD](#)**: His research seeks to understand the role of circadian rhythm and clock signaling (and more broadly, bHLH transcription factors) in vascular disease particularly in relation to aging.

**[Dr. Xingming Shi, PhD](#)**: His major research interests include osteoporosis and stem cell biology. He seeks to understand how bone loss occurs with aging and under conditions such as chronic inflammation and medication use.

**[Dr. Alexis Stranahan, PhD](#)**: Her research interests are in the areas of neuroendocrinology, neuroimmunology, and synaptic mechanisms for learning and memory, and how these may be affected by the aging process.

**[Dr. Maiko Suzuki, DDS, PhD](#)**: Her research focuses on the role of the anti-aging gene SIRT1 in oral craniofacial pathophysiology during tooth development, including dental fluorosis, and in aging-associated oral diseases, including periodontal bone resorption.

**[Dr. Amany Tawfik, PhD](#)**: Her research focuses on the impact of metabolic disorders, including elevated homocysteine levels, on retinal vasculature, and in particular, the involvement in age-related macular degeneration.

**[Dr. Alvin Terry, PhD](#)**: His research interests focus on the cognitive dysfunction associated with neuropsychiatric illnesses and exposures to environmental toxins as well as drug discovery and development strategies to treat cognitive disorders.