Welcome to the Epidemiology & Population Sciences Section of the Department of Medicine

Our multidisciplinary faculty, enthusiastic staff, partner institutions, and research programs are all united by the core mission of the Epidemiology & Population Sciences Section: to promote the health and wellbeing of our community by addressing the causes and consequences of diseases at the population level. In short, the community is our patient.

We encourage you to learn more about the research currently underway in our section of the Department of Medicine, including studies that you may be able to participate in. Our faculty and fellows apply their diverse methodologies to a spectrum of community health challenges, including nutrition and obesity; brain, breast, lung, and gastrointestinal cancer; environmental health and natural disaster responses. Importantly, our research maintains an intersectional perspective, pursuing the compounding effects of environmental stressors, sociodemographic variables, and intrinsic biomarkers that affect the thresholds of disease and disability.

Pursuing our commitment to community health requires innovation and collaboration. To that end, the Epidemiology & Population Sciences Section supports the Institute for Clinical & Translational Research, the premier learning environment for the integration of geospatial, behavioral, and technological breakthroughs into patient care. We also house the Cancer Prevention and Population Sciences program of the Dan L. Duncan Comprehensive Cancer Center, a lateral coalition of researchers specializing in medicine, surgery, molecular and cellular biology, pediatrics, and psychiatry collaborating on problems that face almost every family: addiction, obesity, tobacco use, and hereditary disease. To maximize the scope of our research, we partner with innovative programs and institutions housed within the Texas Medical Center, as well as other leading health organizations nationally and internationally. These partnerships allow us to assemble comprehensive data sets of the most aggressive cancers facing our community, and identify the contribution of heredity to diseases once thought unpredictable.

In order to carry the field of epidemiology into new and exciting avenues of inquiry, we mentor distinguished postdoctoral fellows in Integrative Cancer Epidemiology. Our fellows, funded by the Cancer Research & Prevention Institute of Texas, are equipped with the resources from the Baylor Research Cores in order to incorporate novel high-throughput technologies into large-scale collaborative epidemiology studies.

On behalf of the Epidemiology & Population Sciences Section, I welcome you to learn more about the research, programs, and opportunities here at Baylor College of Medicine.

Melissa Bondy, Ph.D.
Section Head, Epidemiology & Population Sciences
Department of Medicine
Professor and Associate Director for Cancer Prevention & Population Sciences
Dan L. Duncan Comprehensive Cancer Center
McNair Scholar