

Scientific Program Themes

Cancer Control and Population Health Sciences (CCPHS)

- Determination and evaluation of risk factors contributing to development of cancer
- Evaluation and development of cancer screening strategies for early detection
- Assessment of access to high-quality cancer care and prevention resources
- Investigation and improvement of **health-related outcomes and quality** of life for cancer patients

Host Factors and Tumor Progression (HFTP)

- **Influence of Tumor Tissue Microenvironment** on cell-cell interactions, cell structure, migration, angiogenesis, EMT and metastatic bone disease
- **Biomarkers and Targeted Therapies** discovery and development of diagnostics and cancer intervention for prevention of progression
- Coagulation role of platelets and tumor cell crosstalk, a broad spectrum of effects
- Genes and Signaling Pathways discovery of novel targets

Molecular Mechanisms of Malignancy (MMM)

- DNA damage, mutagenesis and repair, genome instability
- Cancer cell biology (stem cells, cell differentiation, division and motility).
- Gene regulation including epigenetics and epigenomics
- Redox homeostasis