Santanu Dasgupta, PhD.

Assistant Professor of Pathology Head of Mitochondria Research Laboratory

36 H-Index

80+ Research Articles

5233 Citations

Research Interests

Tumorigenesis Cancer Cell Evolution Reprogrammed Mitochondrial Function Mitochondrial Biomarkers Exosome-Related Biomarkers Cancer Biomarkers/Therapeutics

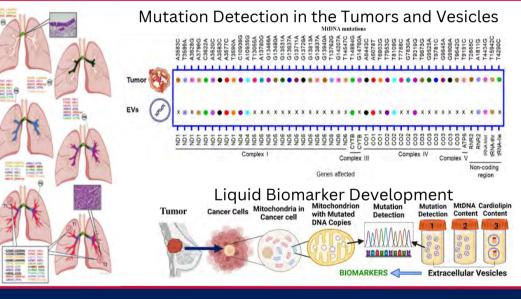
Experimental Capabilities

Mitochondrial Genomics Extracellular Vesicle Analysis Human Cancer Tissue Analysis Body Fluid Analysis

Digital Pathology Microbiome Analysis



(Right) Clonal MtDNA Mutation Detection in Lung Cancer



2016

Clinical Cancer Research

"Mitochondrial Reprogramming Regulates Breast Cancer Progression"

2022 Scientific Reports

"Detection of Mitochondrial DNA Mutations in Circulating Mitochondria-Originated Extracellular Vesicles for Potential Diagnostic Applications in Pancreatic Adenocarcinoma"

2023 FASEB Bioadv

"Profiling Mitochondrial DNA Mutations in Tumors and Circulating Extracellular Vesicles of Triple-Negative Breast Cancer Patients for Potential Biomarker Development"

LS .

UNIVERSITY OF SOUTH ALABAMA COMMERCIALIZATION AND INDUSTRY COLLABORATION

2024

Molecular Cancer Research

"Mitochondrial Translocase TOMM22 Is Overexpressed in Pancreatic Cancer and Promotes Aggressive Growth by Modulating Mitochondrial Protein Import and Function"

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