

2009 Georgia Cancer Research Symposium Poster Roster

Isolation and Biochemical Characterization of Cysteamine Dioxygenase

Yan Chen, Sunil G. Naik, Kednerlin Dornevil, William Morrios, Martha H. Stipanuk, and Aimin Liu

Mass Spectrometry Studies On The Catalytic Activity of Tryptophan 2,3-Dioxygenase

Rong Fu, Siming Wang, Tadhg P. Begley, Michael P. Hendrich, and Aimin Liu

Trapping and Characterizing Reactive Intermediates in Tryptophan 2,3-Dioxygenase

Rong Fu, Rupal Gupta, Yong Zhang, Michael P. Hendrich, and Aimin Liu

Glycoproteomics of Pancreatic Ductal Fluid: Hunting for Cancer Biomarkers

Peng Zhao, Melody Perlman-Porterfield, Michael Tiemeyer, Michael Pierce, Haiyong Han, Lance Wells

Heparan sulfate regulates prostate cancer tumorigenesis

Fang Li, Bing Zhang, Xuanyang Li, Wan-I Li and Lianchun Wang

Lycopene Inhibits Insulin-Like Growth Factor I Signaling in Human Prostate Cells

Lili Tang, Li Xu, and Jia-Sheng Wang

Effect of Lycopene on the Growth of Stage-Specific Human Prostate Cells

Lili Tang, Jia-Sheng Wang

Alteration in Cell Cycle and P21 Expression Following Metronomic Dosing of Topotecan in Prostate Cancer

Ibrahim A. Aljuffali, Jason Mock, Brian S. Cummings, and Robert D. Arnold

Impact of Tumor Hypoxia and Dosing Schedule of Paclitaxel and Topotecan in Human Breast and Prostate Cancer Cell Lines *In Vitro*

Ibrahim A. Aljuffali, Jason A. Zastre, and Robert D. Arnold

The Farnesoid-X Receptor and Associated Target Genes are Up-Regulated Under Hypoxia in Breast Cancer Cell Lines

Soo Hyun Jun, Amber Paul, and Jason Zastre

Hypoxia Induced Up-Regulation of the Thiamine Transporter SLC19A3 in Breast Cancer Cell Lines

Hejiao Hu, Amber Paul, and Jason Zastre

Novel CBP-mediated post-translational N-glycosylation of BRCA2

Habibur Siddique, Veena N. Rao, and E. Shyam P. Reddy

Estrogen Receptor Alpha Activation by Calmodulin

Ramona J. Bieber Urbauer, Carrier E. Jolly, Savannah J. Johnson, John A. Galdo, Marie E. Cross, Madeline C. Elliott, Michael Nooramid, and Jeffrey L. Urbauer

LKB1-dependent proteasomal degradation of STRAD in non-small cell lung cancer
Carrie M. Eggers, Wei Zhou, Adam I. Marcus

Dual roles for the LKB1-STRAD α tumor suppressor pathway in the lung cancer cell polarity and motility programs
Erik R. Kline, Katherine Hales, and Adam I. Marcus

Effects of Leutinizing Hormone on Gene Expression in Ovarian Cancer Cells
Joanna Eldredge, Juan Cui, Ying Xu, and David Puett

Regulators of G protein signaling enhance sensitivity to chemotherapy in SKOV-3 ovarian cancer cells
Molly Altman, Jillian Hurst, Shelley Hooks, and Mandi Murph

Investigation of Angiogenesis and Gene Expression Patterns in Glioblastoma
Sharath R. Cholleti, Daniel J. Brat, Carlos Moreno, Joel Saltz, Ashish Sharma, Tony Pan

In vivo anti-tumor effects of KCN-1, a novel type of small molecule inhibitor of HIF
Stefan Kaluz, Shaoman Yin, Narra Sarojini Devi, and Erwin G. Van Meir

Identification of candidate proteins for the targeted imaging and therapy of glioma stem cells by antibody conjugated magnetic nanoparticles
Milota Kaluzova, Carol Tucker-Burden, Revza Machaidze, and Costas G. Hadjipanayis

EGFRvIII Antibody Conjugated Iron Oxide Nanoparticles for Targeted Imaging and Therapy of Glioblastoma
Costas G. Hadjipanayis, Revaz Machaidze, Milota Kaluzova, Albert J. Schuette, Xingling Wu, Hongwei Chen, Liya Wang, and Hui Mao

Convection Enhanced Delivery of Paclitaxel Nanoparticles as a Novel Approach to Glioblastoma Treatment
Revaz Machaidze, Ekjah N. Kweku-Ebura, Hongwei Duan, Milota Kaluzova, Shuming Nie, and Costas G. Hadjipanayis

Electrosonic Ejector Microarray for Drug and Gene Delivery
JM Meacham, C Hao, FL Degertekin and AG Fedorov

Preparation of Recombinant p53 protein for the analysis of p53-targeting small molecules
Dillon Robinson, Qiang Wang, Alan Berzov, Mark I. Greene

Development of different assays to study DNA amplification both within a cell population and at the single cell level *in vivo* in yeast *Saccharomyces cerevisiae*
Kuntal Mukherjee and Francesca Storici

Development of an in vivo, DNA Methyltransferase Specific, and Gene-Specific Assay for Studying Methylation Epigenetic Regulation

Jinping Li, Jesus Gonzalez-Bosquet, Shi-Wen Jiang

To metastasize or not to metastasize – roles for epigenetics in tumor metastasis

Agnieszka D. Truax and Susanna F. Greer

Increasing Gene Targeting in Human Cells

Patrick Ruff

Differential effect of RNase H enzymes on gene correction by RNA-containing oligos in yeast and *E. coli* cells

Ying Shen, Bernard Weiss, and Francesca Storici

Yeast and mammalian systems to characterize the potential of DNA nicks to promote recombination and gene targeting

Samantha Stuckey and Francesca Storici

The role of reduction/oxidation capacity in receptor signaling

ML Kemp, S Shukla, C Rivet, NJ Adimora, and L Kippner

Role of Calcium-Independent Phospholipase A₂ in MAP Kinase Signaling Pathways during Cytostasis

Bin Sun, Xiaoling Zhang and Brian S. Cummings

ProtKinO: An Ontology for integrating basic and clinical research on protein kinases

Gurinder Gosal, Eric Talevich, Krys Kochut, Natarajan Kannan

What distinguishes EGFR from related tyrosine kinases?

Amar Mizra, Morad Mustafa, Eric Talevich, and Natarajan Kannan

Regulating the Regulator: NF- κ B Modulation by Metalloprotein Pirin

Fange Liu, Yang Liu, Rong Fu, Ian Davis, W. David Wilson, and Aimin Liu

Inhibited expression of branched N-glycans stimulates homotypic cell-cell contacts and reduces tumor cell invasiveness mediated by N-cadherin

Hua-Bei Guo, Heather Johnson, Matthew Randolph, Michael Pierce

The Structural Impact of Cancer Mutations in EGFR Using Molecular Dynamics Simulations

Morad Mustafa, Amar Mizra, Natarajan Kannan

Secretory Phospholipase A₂-Targeted Lipid Nanoparticles for Cancer Treatment

Guodong Zhu, Ibrahim A. Aljuffali, Jason A. Mock, Brian S. Cummings, and Robert D. Arnold

Multifunctional Vector Towards Cancer Gene Therapy and Imaging
Jennifer Haley and Yan Geng

Application of a Mucin-Glycopeptide Microarray to Cancer Vaccine and Diagnostic Development
Jamie Heimburg-Molinaro, Yi Lasanajak, Tongzhong Ju, Mian Liu, Richard Cummings, David Smith, and David Live

Synthesis of three-component cancer vaccines and immunotherapy studies in MUC1.tg mice
Pamela S. Thompson, Vani Lakshminarayanan, Therese Buskas, Margreet Wolfert, Sandra J. Gendler, Geert-Jan Boons

Isolation and Characterization of a Population of Stem-Like Progenitor Cells From an Atypical Meningioma
Prakash Rath, Douglas C. Miller, N. Scott Lifotsky, Douglas C. Anthony, Qi Feng, Craig Franklin, Lirong Pei, Alan Free, Mark D. Kirk, Huidong Shi

Bridging the Gap between Cancer Literacy and Cancer Screening: Do People Want to be Screened?
James F. Repella

Community Profile of Disparities in Treatment Services for Cancer Patients in Central Georgia Counties
Stephanie Matthews and Frances Carter

National Cancer Institute's Community Cancer Centers Program pilot at the Nancy N. and J.C. Lewis Cancer and Research Pavilion: Year Two
Beverly Albury, Melissa Allen, Jennifer Fournier, Nancy Johnson, Deborah Kemp, Judy Miller, Stephanie Smith, Karen Terry, Pat Willmann, and H.A. Zaren

Evaluation of Lung Cancer Screening Program and Patient Navigation in a Community Cancer Center: A time to treatment study
Deborah Kemp, Michael Mullins, George Negrea, John Pablo, Tom Philbrick, Nancy Johnson, Pat Willman, and H.A. Zaren

Association of environmental tobacco smoke exposure with adiposity, cognition, and sleep-disordered breathing in overweight children
Martha S. Tingen and Catherine L. Davis

A Review of Increased Cancer Risks of Police Officers Associated With Occupational Exposures
Emily Smith BSA, Sarah Bauer, John Vena PhD

A longitudinal follow-up study of participants in cervical and prostate health education programs in southeast Georgia (2006-2008)

Gerald R. Ledlow, Marsha L. Pierce, Freddie Patrick, James F. Repella

Mother-Daughter Education for the Prevention of Cervical Cancer

Jennifer Mitchell, Claire Robb, Marilyn Hill, James Repella, Marsha Pierce

Results of a Continuous Quality Improvement (CQI) audit in a public hospital of reconstructive breast surgery: comparing outcomes of breast cancer (BC) patients to benign breast disease (BBD) patients

Sharla Gayle Patterson, Harvey Bumpers, Joel Okoli, Monica Rizzo, Lorraine Trim, Grant W. Carlson, Sheryl GA Gabram

The Effects of 12-weeks Cross Training on Fatigue and Mood in Recent Breast Cancer Survivors

Melanie Poudevigne, Janet Wojcik, Suzana Simonishvili, Betty Lane, Marty Polovich