VES ON DNA REPAIR

DOUBLE 4 INHIBITOR INDUCER PROLIFERATION

LUNCH IN NAIVE NATION OF DNA DAMAGE BAGATE INJURIES HANCES EXPRESSION AND EXECUTION OF TOXIC PROTEINS.

11th ANNUAL COLLEGE OF MEDICINE RESEARCH FORUM
Co-sponsored by the USA Mitchell Cancer Institute
Medical Sciences Building
November 17, 2017

9:00 AM
OPENING REMARKS - MSB Auditorium, 1st Floor
Dr. John Marymont, Dean, USA College of Medicine
Dr. Michael Finan, Director, USA Mitchell Cancer Institute

ORAL PRESENTATIONS - MSB Auditorium, 1st Floor
Moderators: Drs. Wito Richter and Peter Sykora

9:25 - 9:40 O2 Fitzpatrick SE1, Lausch RN1, Barrington RA1,2 Department of Microbiology and Immunology, 2Center for Lung Biology, University of South Alabama.
9:40 - 9:55 O3 Holton NW1, Ebenstein Y1 and Gassman NR1, Michigan Cancer Institute, University of South Alabama; 2School of Chemistry, Center for Nanoscience and Nanotechnology, Tel Aviv University, Tel Aviv, Israel.
9:55 - 10:10 O4 Boyd A1, Baskar G1, Abou Saleh L1, Koloteva A1, Petty T1, Keeton A1, Piazza G1, Richter W1, Dept. of Biochemistry and Molecular Biology, University of South Alabama. Michigan Cancer Institute, University of South Alabama.

10:10 - 10:25 O5 Al-Ghadrabah A1, Taygi N1, Deshmukh SK1, Kanchanapally R1, Chavva SR1, Singh AP1,2, and Singh S1,2, Department of Oncologic Sciences, Mitchell Cancer Institute, University of South Alabama; 2Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama.

10:25 - 10:55 AM
BREAK - MSB Foyer, 1st Floor


11:10 - 11:25 O7 Wick A1, Cunningham R1, Li J1, Sykora P1, Garavaglia S2, Zamani L1, Rizzi M1, Migaud M1 and Sobol RW1, Department of Oncologic Sciences, Mitchell Cancer Institute, University of South Alabama; 2Department of Pharmaceutical Sciences, University of Piemonte Orientale, Novara, Italy.

11:25 - 11:40 O8 Teague DA1,2, Housley NA1,2, Taylor MS2, Alvare DH3, Audia JP1, Department of Microbiology and Immunology, 2Department of Physiology, Center for Lung Biology, University of South Alabama.

11:40 - 11:55 O9 Stone JK1, Kim JH1, Tan M1,2, Ahn EY1,2, Mitchell Cancer Institute, 2Department of Biochemistry and Molecular Biology, University of South Alabama.

12:00 - 12:30PM
LUNCH - Joseph Bitzer Conference Room, MSB 2080

12:30 - 3:00 PM
POSTER PRESENTATIONS - MSB 2nd Floor South Corridor

P1 Kestler BE1, Taylor MS1, 1Department of Physiology and Cell Biology, University of South Alabama.

P2 Richard A1, Kim JH1, Vukadin L1, Abdel-Rahman HM1, Piazza GA1, Ahn EY1,2, 1Mitchell Cancer Institute, University of South Alabama, Mobile, AL; 2Faculty of Pharmacy, Medical Chemistry Department, Assiut University, Assiut, Egypt; 3Department of Biochemistry and Molecular Biology, University of South Alabama, Mobile, AL.

P3 deWeever AE1, Balczon R1, Stevens T1, 1Department of Physiology & Cell Biology, University of South Alabama.

P4 McClinton AK1,2, Cioffi DL1,2, Cioffi E1,2, Center for Lung Biology, 2Department of Pharmacology, 2Department of Biochemistry and Molecular Biology, University of South Alabama.
P5 Ward A1, Chen X1, Valiyaveettil J1, Zhu B1, Ramirez-Alcantara V1, Lee KJ1, Lindsey A1, Maxuwenko V1, Berry K1, Mattix TE1, Piazza GA1, Keeton AB1
1Drug Discovery Research Center, University of South Alabama, Mobile, AL

A NOVEL RAS INHIBITOR DC070-547 SUPPRESSES RAS-EFFECTOR INTERACTIONS TO INDUCE CELL CYCLE ARREST AND APOPTOSIS IN COLORECTAL CANCER CELLS.

P6 Angajala A1, Hughley R1, Tripathi S1, Dean-Colomb W2, Tan M3, Yates C1
1Dept. of Biology and Center for Cancer Research, Tuskegee University, Tuskegee, AL; 2Lafayette General Health, University and Clinics, Lafayette, LA; 3Mitchell Cancer Institute, University of South Alabama, Mobile AL.

IDENTIFICATION OF DIFFERENTIALLY EXPRESSED MICRO-RNAS IN AFRICAN AMERICAN WOMEN WITH QUADRUPLE NEGATIVE BREAST CANCER.

P7 Haidar B1, Hamilton CL2, Cioffi DL1,2
1Center for Lung Biology, Department of Biochemistry & Molecular Biology, University of South Alabama

ASSOCIATION OF S100A6 PROTEIN WITH THE ISOC CHANNEL HETEROCOMPLEX.

P8 Rivers BS1, Fitzpatrick SE1, Bhadkamkar TS1, Friend J1, Alexyev M1, Lausch RN1,2, Barrington RA1,2
1Departments of Microbiology and Immunology,1,2Physiology, and 1Center for Lung Biology, University of South Alabama

CYTOKINE-MEDIATED REGULATION OF IL-17A IN CORNEAL γδT CELLS.

P9 Hamilton CL1,2, Solodushko V1, Kadeba P1,2, Vasauskas AA1, Cioffi DL1,2
1Department of Biochemistry, 2Center for Lung Biology, University of South Alabama, Mobile, AL; 2Department of Physiology, Anatomy and Molecular Medicine, Alabama Osteopathic College of Medicine, Dothan, AL

FKBP51 PROTECTS AGAINST INTERENDOTHELIAL CELL GAP FORMATION AND PERMEABILITY.

P10 Li C1, Zhang B1, Zhu Y1, Li Y1, Liu P1, Gao B1, Tian S1, Du L1, Bai YL1, Department of Rehabilitation Medicine, Huashan Hospital, Fudan University.

POST-STROKE CONSTRAINT-INDUCED MOVEMENT THERAPY INCREASES FUNCTIONAL RECOVERY, ANGIOGENESIS, AND NEUROGENESIS WITH ENHANCED EXPRESSION OF HIF-1α AND VEGF.

P11 Choi CS1, Sayner S1
Department of Physiology and Cell Biology, University of South Alabama

INTRACELLULAR pH REGULATES MICROTUBULE ASSEMBLY IN PULMONARY MICROVASCULAR ENDOTHELIAL CELLS

P12 Daniels CL, Pannell LK
Mitchell Cancer Institute, University of South Alabama

COMBINING HYDROPHILIC INTERACTION AND REVERSE PHASE (C18) CHROMATOGRAPHY FOR THE ANALYSIS OF GASTROINTESTINAL LAVAGE FLUID DERIVED GLYCOCHEMICALS USING MASS SPECTROMETRY.

P13 Daniel CL1, Fernandez AM1, Keyses DE1, Gassman NR2, Bae S3, Tan MCB1
1University of South Alabama; 2University of Alabama at Birmingham

SPRAY TANNING PREVALENCE AND MOTIVATIONS AMONG UNDERGRADUATE AND GRADUATE STUDENTS AT A SOUTHEASTERN U.S. UNIVERSITY.

P14 Spadofora D1, Ghosh D1, Klein H1, Mannie M2, Barrington RA1,2
1Departments of Microbiology and Immunology,2Center for Lung Biology, University of South Alabama and 1East Carolina University

FLOW CYTOMETRY-BASED IMMUNOASSAY (FLISA) TO DETECT CYTOKINE-SPECIFIC AUTOANTIBODIES IN SERUM FROM MICE.

P15 Turner EA1, Atigh MK1, Erwin MM2, Burnett L2, Yazdani SK1
1Department of Mechanical Engineering, University of South Alabama; 2KeraNetics, Winston-Salem, NC.

KERATOSE AS A NOVEL DRUG CARRIER FOR DRUG COATED BALLOONS.

P16 Baskar G1, Boyd A1, Abou Saleh L1, Boudreaux T1, Diamond D1, Petty T1, Verkman A1, Richter W1
1Department of Biochemistry & Molecular Biology, University of South Alabama and UC San Francisco.

A NOVEL STRATEGY OF ACTIVATION OF PDE4 IN HEART FAILURE.

P17 Sykora P1, Willoughby G1, Rewanna P1, Sobol RW1
1Department of Oncological Sciences, Mitchell Cancer Institute, University of South Alabama.

DITHIOCARBAMATES INDUCE CYOTOXICITY THROUGH DNA DAMAGE DEPENDENT PATHWAYS.

P18 Murphy JM1, Lim S1
Department of Biochemistry and Molecular Biology, University of South Alabama.

FAK INHIBITION REDUCES ATHEROSCLEROSIS BY PREVENTING PROLONGED NF-κB ACTIVATION.

P19 Kim J1, Kelly DC1, Tan M1
1Department of Oncological Sciences, Mitchell Cancer Institute, University of South Alabama.

MICRORNA 4728 INCREASES INTERFERON- GAMMA SECRETION THROUGH MST4/TRAF6/ NF-KB SIGNALING AXIS.

P20 Deal JA1,2, Martin W4, Lall M1, Lopez C1, Rider P4, Boudreaux C1, Rich TC1,2, Leavestey SL1,2
1Department of Chemical and Biomolecular Engineering; 2Department of Pharmacology; 3Center for Lung Biology; 4Medical Sciences; 5Department of Biomedical Sciences; 6Department of Surgery; 7Department of Pathology

HYPER SPECTRAL IMAGING FLUORESCENCE EXCITATION SCANNING AS A NOVEL APPROACH OF COLON CANCER DETECTION.

P21 Smith KR1, Cranberry M1,2, Tan MC2, Daniel CL1, Gassman NR1
1Mitchell Cancer Institute, University of South Alabama; 2Auburn University Harrison School of Pharmacy, University of South Alabama.

DIHYDROXYACETONE INDUCES G2/M ARREST AND APOPTOTIC CELL DEATH IN A375P MELANOMA CELLS.
P39  Chavva SR1, Deshmukh SK1, Kanchanapally R1, Tyagi N1, Ali-Ghadhban A1, Singh AP1,2 and Singh S1,2
1Department of Oncologic Sciences, Mitchell Cancer Institute, University of South Alabama; 2Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama.

SUPERIOR ANTI-TUMOR ACTIVITY OF EPIGALLOCATECHIN GALLATE-GOLD NANOPIERCLES OVER CONVENTIONAL GOLD NANOPIERCLES.

P40  Norton TS1, Mattox TE2, Zhu B2, Berry KL2, Musiyenko A1, Gavin E1, Lee K1, Ramirez-Alcantara V1, Maxuitenko YY1, Chen X1,2, Valiyaveettil J1, Boyd MR1,2, Scalici J1, Rocconi RP1, Piazza GA1, Madeira da Silva L1
1Gynecologic Oncology Research Division, 2Drug Discovery Research Center, University of South Alabama Mitchell Cancer Institute; 3ADT Pharmaceuticals, Inc., Orange Beach, AL

TARGETING RAS AND DOWNSTREAM SIGNALING IN HIGH-GRADE SEROUS OVARIAN CARCINOMA.

Drug Discovery Research Center, University of South Alabama Mitchell Cancer Institute.

NOVEL RAS INHIBITOR DC070-547 POTENTLY AND SELECTIVELY INHIBITS THE GROWTH OF KRAS MUTANT PANCREATIC TUMOR CELLS BY DISRUPTING RAS-RAF INTERACTIONS AND BLOCKING MAPK AND AKT SIGNALING.

P42  Su-Jeong K1, Jung-Hyun K2, James M1, Yelitza R1, Hyeonsoo P1, Chung-Sik C1, David D. S1, Erin A1, and Steve L1
1Dept. of Biochemistry and Molecular Biology, 2Mitchell Cancer Institute, 3Dept. of Physiology and Cell Biology, UCSD, CA

DECREASE OF GATA4 AND CYCLIN D1 BY FAK INHIBITION IMPAIRED VASCULAR SMOOTH MUSCLE CELL PROLIFERATION, AND INTIMAL HYPERPLASIA.

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