

Basic Science Summer Research Titles

Class of 2009

2-5A AND RNASE L APOPTOTIC INTERACTION IN PROSTATE CANCER CARCINOMA WITH UNIQUE DELIVERY

BRAIN VASCULAR ADAPTATION TO CHRONIC HYPOXIA

COMPLEMENT AND ANTI-TUMOR T CELL IMMUNITY

IDENTIFICATION OF ARE BINDING PROTEINS

ANTI-IDIOTYPIC RESPONSES IN TCR-EXPRESSING MALIGNANT T CELL LYMPHOPROLIFERATIONS

Cell Signaling in the Survival and Proliferation of Malignant Glioblastoma Multiforme

CHARACTERIZATION OF THE INTEGRIN SIGNALING CASCADE RESPONSE IN DEVELOPING OLIGODENDROCYTES USING FIBRONECTIN-COATED LATEX BEADS

CHARACTERIZATION OF THE ROLE OF GLIA IN THE MS CORTEX

CYCLIN E AS A DETERMINANT OF THE GENOTOXIC STRESS RESPONSE IN HEMATOPOIETIC TUMOR CELLS

DESIGNING A STUDY OF NEUROIMAGING AND SYNTACTIC PRIMING

DISCOVERY AND IDENTIFICATION OF THE TARGET GENES FOR THE FORKHEAD TRANSCRIPTION FACTOR INDUCED BY TGFB IN HEP3B CELLS

DNA Demethylators in Interferon Therapy for Renal Cancer

DOES CD36 PLAY A ROLE IN CHOLESTEROL EFFLUX IN MACROPHAGES?

EFFECT OF HYPEROXIA ON UBIQUITINATION IN BEAS2B CELL LINE

Effects of Potassium Channel Blockade on Atrial Electrophysiology and Contractility: Relevance in Atrial Fibrillation

EXPRESSION AND CHARACTERIZATION OF A NOVEL SECRETED RECOMBINANT PROTEIN ASSOCIATED WITH SKELETAL MUSCLE DIFFERENTIATION, ADAMTSL-2

HEPHAESTIN IN LIPID DYSREGULATION AND METABOLIC SYNDROME

HUMAN BETA-DEFENSINS AND HIV TRANSMISSION

IDENTIFICATION OF INTERMEDIATES IN THE REGULATION OF FOAM CELL FORMATION BY STAT 1

Intravenous Delivery of Engineered Allogenic MSC to Curtail Ischemic Cardiomyopathy

INVESTIGATING THE ASSOCIATIONS BETWEEN IL-13 AND PPAR γ DURING INDUCED APOPTOSIS OF GLIOBLASTOMA CELLS

INVESTIGATION OF CHOLESTEROL ACCEPTORS

Myeloperoxidase, Oxidant Stress and Atherosclerosis

PROFILING TUMOR NECROSIS FACTOR RECEPTOR 2 (TNFR2) GENE EXPRESSION

RNA:Protein Interactions Involved in the Recoding of UGA as Selenocysteine

ROLE OF ANKYRIN B IN PHOTORECEPTOR DARK CURRENT

Role of CD 36 in Retinal Pigment Epithelium Cells

ROLE OF MUSKELIN IN CELL CYCLE REGULATION

THE MOLECULAR BASIS OF THE HEUTER-VOLKMAN PRINCIPLE

ULTRASONIC ASSESSMENT OF WOUND HEALING

Class of 2010

CXCR3 and CX3CR1 Mediate Accumulation of Microglia in the Dentate Gyrus Following Entorhinal Cortex Lesion

Differential Signaling via TNF- α receptor I versus Receptor II in Inflammation

Pegylated IFN Beta Induces Anti-Tumor Effects in Hepatocellular Carcinoma

An in vivo study of the effects of ABCA1 and inflammation on reverse cholesterol transport in mice

An In-Depth Study of the Role of c-Reactive Proteins in Mediating Chronic Atrial Fibrillation

Basophil IL-4 Secretion in Response to TLR Stimulation

Causes of TGF β 2 overexpression in cancer cell lines

Development of an In vitro Glomerular Filtration System

Development of Dendritic Cells (DC) Against Suppressive Factors

Ectopic expression of the regulator of parathyroid development, GCMb, in non-endocrine cells

Effects of fatigue and decision making on knee kinematics during a drop-jump task

Evaluation of a keratolimbic epithelial stem cell deficiency model and limbal transplantation as a rescue operation

Gender-based differential expression of IL-17 its role in autoimmune cardiomyopathy

Identification of platelet-activating factor acetylhydrolase (PAF-AH) isoforms in liver mitochondria of Rattus norvegicus

Investigating the Role of Lipid Rafts in the Survival Advantage of PIG-A Mutants over Wild-Types in Paroxysmal Nocturnal Hemoglobinuria

Investigation of Akt in Oligodendrocyte Myelination Using Dominant Negative Akt Mice

Long duration measurement of in-shoe plantar pressure

Mechanism of desferrioxamine protection of T cells exposed to tumor supernatant and tumor-derived gangliosides

Molecular characterization of the interaction between the UBL-domain of parkin and alpha synuclein using nuclear magnetic resonance spectroscopy.

MRI Contrast of Fat Deposition Patterns Associated with Dietary and Genetic Obesity in a Rodent Model

Pathogenesis of Cognitive Dysfunction in Multiple Sclerosis Patients

Regulation of NF- κ -B and beta-catenin by the PI3K/AKT/IKK pathway in breast cancer

Reversible modulation of motor neuron excitation through adenoviral delivery of Kir2.1

Signaling Intermediates in Oxidized LDL-induced, Stat1-dependent Macrophage Foam Cell Formation

The characterization of ADAMTS10 expression and function in mouse eyes in order to explain the pathological mechanism of Weill-Marchesani Syndrome

The Electrophysiological Effects of ESC CCT During Late MI

The Role of CD36 in Insulin Signaling

Translational Silencing of ZIP Kinase during Resolution of Inflammation

Class of 2011

A Murine Model for Autoimmune Oophoritis: Implications for an Ovarian Cancer Vaccine

Acute Anatomical Effects of Vaginal Distention in the Rat

Aminolevulinic acid-induced Photodynamic Therapy of Human Squamous Cell Carcinomas: Potential Enhancement by Methotrexate and 5-Fluorouracil

Blood plasma gangliosides induce systemic immunosuppression

Bone Sialoprotein is a Crucial Ligand for Apatite Nucleation in Osteoblast Cultures

Building a better B12 assay using high performance liquid chromatography and microbiological detection

Cholinergic Activation of Mononuclear Blood Cells and Blood-Brain Barrier Disruption in an Animal Model of Temporal Lobe Epilepsy

Codon 129 Polymorphism Influence PrP Conformation

Conditioning Tumor-Competent Dendritic Cells with Flt3L+IL6

Delivery of Viral Clostridial Light Chain through an Adenoviral vector to Control Kainic Acid- induced Hippocampal Seizures

Development of methods for assessing whether the human cytomegalovirus US12 family encodes G-protein coupled receptor-related signaling proteins

Effect of Toluene on L1 CAM Distribution in Lipid Rafts

Effectiveness of Mechanical Augmentation of Rotator Cuff Tendon Repairs

Effects of bilateral and unilateral DBS on dual task performance in Parkinson's disease

Elucidation of Phosphorylation Sites Critical for the Dimerization of IRF-3

Examining the Hedgehog signaling pathway: Attempts to identify targets that regulate Smoothed

Human Idiopathic Pulmonary Arterial Hypertension is Associated with Reduction in both Cytosolic and Extracellular Superoxide Dismutase Enzymes

Leukocytes activation triggers the release of microparticles containing active Mac-1 (αMβ2) integrin.

Mechanisms of atherosclerotic lipoprotein uptake in macrophages

Mechanisms of LPS-induced Preconditioning in Heart and Brain

Micro-Computed Tomography and Quantitative Morphometry of the MT1-MMP and MMP-2 null mice

Molecular Basis of Ventricular Electrical Remodeling

Parkin, alpha, and beta synuclein: interactions and implications for Parkinson's disease

Regulation of BEGF Expression in Glioblastoma Multiforme: Role of Activated STAT3

Regulation of NF-κB and β-catenin by the PI3K/AKT/IKK Pathway in Melanoma

Role of Heterogeneous Nuclear Ribonucleoproteins (hnRNPs) E1 and K in Translational Silencing of Disabled-2 (Dab2)

Sensitizing WM164 Melanoma cancer cells to IFN-γ-induced apoptosis by re-expression of epigenetically silenced tumor suppressor genes

Sex-differences in the CELF-mediated Alternative Splicing of Developing Heart

The Expression of HIV-1 Reverse Transcriptase and Analysis of its Non-Nucleoside Drug-Binding Properties

The Role of Hyaluronan & Fibrinogen in Inflammatory Bowel Disease

Visualization and Classification of Multiple Sclerosis Lesion Dynamics

Class of 2012

“Purinergic mechanism of hyperglycemia-induced IL-8 up-regulation in human endothelial cells”

A Critical Role for Fibrillar Collagens in Biomineralization In Vitro:

A Dynamic Model of the Blood-Brain Barrier as a Tool for Studying Leukocyte-Endothelial Cell Interactions in Neuroinflammation

Aβ oligomers induce neuronal process loss and cell cycle events in Alzheimer's Disease

BACE1 Modulates Myelination in the Central and Peripheral Nervous System

Bace1 Modulates Remyelination in the Peripheral Nervous System

Changes in the spatial and total expression patterns of C/EBP factors due to non-melanoma skin cancer

Cofilin: a novel regulator of receptor signaling

Dendritic cells cultured with dual TLR agonists activate and expand antigen-specific CD4 and CD8 T cells

Do Genetic Differences Account for the Racial Disparity in Survival of Endometrial Cancer?

Effect of Loss of Mutated in Colorectal Cancer (MCC) gene in the initiation and progression in serrated neoplasia colorectal cancer

Effects of assisted exercise on motor functions of Parkinson's disease patients

Electrical Stimulation of Peripheral Afferent Nerve Endings within the Proximal Urethra Evokes Bladder Contractions

Expression array analysis of interferon stimulated genes.

Functionalizing Nanoscale Polymer Gene Carriers with MRI Contrast Agent

Gray Matter Magnetization Transfer Ratio and Subsequent Gray Matter Atrophy

Identification of the susceptibility genes within chromosomal region 15q25 that may be associated with high levels of HDL-C in families with premature CAD and MI

Improving the Etiologic Diagnosis of Culture-Negative Infective Endocarditis at a Tertiary Heart Center

Intradiscal Pressure: A Measure of Disc Health

MATER Autoimmunity: A Model for Human Premature Ovarian Failure?

Mechanism of US17 Segmentation in Human Cytomegalovirus

Myelin alters synaptic plasticity

Quantifying the Effects of Non-elastic Behavior in Knee Cartilage under Simulated Weight-bearing Conditions

Reversible phosphorylation of Cubitus interruptus in Drosophila Hedgehog signaling

Role of cGMP-Protein Kinase in LPS Activation of Platelets

Speckle Tracking Echocardiography to Evaluate Strain in Mice Subjected to Isoflurane Anesthesia

STAT3 Acetylation and Activity

T regulatory cell induction by renal cell carcinoma and glioblastoma multiforme

THE EFFECT OF TYPE 1 DIABETES ON THE CD36 MEDIATED INHIBITION OF ANGIOGENESIS

The effects of muscular injury on neuroregeneration in simulated childbirth

The Mechanism of Velcade and its Efficacy in Hematological Malignancies

The Role of the Platelet CD36 Receptor in Hemostasis

Using NMR Spectroscopy to Detail Binding between Filamin A repeats 10 and 12 to CD4 Receptor

Class of 2013

A Genome Wide Over Expression Assay to Discovery Novel Hedgehog Signaling Pathway Modifiers in Drosophila

Altering Muskelein Intracellular Localization and Binding to RanBP9 through Single Nucleotide Polymorphisms

Enzymatic hydrolysis of Aspirin in human serum: Implications for 'Aspirin Resistance'

Investigating filamin's role in mediating integrin clustering

A Phosphatase inhibitor may augment anticancer activity of interferons: insights from a clinical trial

Actin Binding Protein, ANLN, a Novel Component of Human CNS Myelin.

BACE 1 Modulates Remyelination in the Peripheral Nervous System

Bioreactor Design for Engineering a Bioartificial Kidney

Chromosome Substitution Effects on β -Amyloid Plaque Formation in Mice

Comparing Antibodies for RLIP76, a Protein Linked to Drug Resistance in Epilepsy

Defining resistance to a small molecule Bcl-2 inhibitor in hematopoietic tumor cells

Development and assessment of a digitized Trail Making Test Part A and B to assess motor and cognitive function in Parkinson's disease patients.

Development of Catalase Encapsulated PLGA Nanoparticles to Prevent Oxidative Damage in Ischemic Stroke

Effects of Ezrin Mutants on the Migration, Survival, and Adhesion of Breast Carcinoma Cells

Etiology of acquired aplastic anemia: hunting for a virus

Expression of recombinant human apolipoprotein AI in *Kluyveromyces lactis*

HIV-1 Reverse Transcriptase on Drugs

Intradiscal pressure response to combined loading

Investigating the Role of CUG-BP1 and ETR-3 in Regulating Sex Differences in Cardiac Specific Alternative Splicing

Lung endothelial cell activation and the asthmatic inflammatory response

Mechanisms Underlying the Differentiation of Brain Tumor Initiating Cells in Glioblastoma Multiforme

MicroRNA expression pattern in cells from circulatory system – an indicator of cardiac function

Neutrophil Infiltration and Development in Hapten Induced Contact Hypersensitivity

Role of HIF-1- α in Neutrophil Homing After Myocardial Infarction

Role of Wnt7b in Murine Pancreatic Embryogenesis

The Effect of Anti-Histone Antibodies on Plasminogen Binding and Function

The Estrous Cycle in Mice with Experimental Autoimmune Encephalomyelitis (EAE)

The potential role of CD36 in mediating fusion of microparticles with cells – a possible mechanism of transcellular metabolism.

The Role of Bid in Chronic Ethanol Exposure

The Role of LMCD1 in TGF- β Induced Apoptosis of Hepatocytes

The role of syndecan-3 in hypothalamic regulation of body weight

Time course investigation of T-cell immune response to tuberculosis antigens

Tumor cell line supernatants induce a myeloid-derived suppressor cell population from healthy donor blood

Tumor necrosis factor α Receptor 2-specific Gene Expression and Signaling in Endothelial Cells

Urethral Pressure Catheter Characterization through an ex-vivo Porcine Model

Class of 2014

Effect of surface groups on nanoparticle interactions with an endothelial model membrane

Effects of Spinal Cord Injury Repair on Bladder Function

Identification of Epigenetic Modifications & Candidate DNA Regions for Study in Prostate Cancer Cell Lines

Modulation of MDSC survival and function by tumor derived products.

Researching Factors for IL-1beta mRNA Instability in Activated Platelets

Role of deficient hydroxylation of methylcytosine in MDS in aberrant epigenetic silencing in MDS

A Novel Method of Measuring Gray Matter Atrophy Using Conventional MRI in Multiple Sclerosis Patients

Analysis of the anti-angiogenic effects of Interferon Stimulated Genes in Human Umbilical Vein Endothelial Cells

Analysis of the T Cell Response to Alpha-Lactalbumin

Bimolecular Quenching of Alexa Fluor 488 Fluorescence by Tryptophan and Tyrosine

C4d Deposition as a Marker of Antibody Mediated Rejection in Rat Face Transplant

Characterization of Transient Receptor Potential (TRP) Calcium Channels in Mouse Depolarizing Bipolar Cells of the Retina

Determining corneal stiffness using acoustic excitation and optical coherence Tomography

Development of IL-17 expressing $\gamma\delta$ T cells

Effect of Prostate Membrane Specific Antigen Expression on Acylhomoserine Lactone Bioactivity

Fractalkine Effects on β -Amyloid Plaque Accumulation in Senescent Alzheimer Mice

Gr1+CD11b+-mediated Suppression of Lupus-like Disease in (NZBxNZW)F1 Mice

Increasing Erythrocyte Throughput of a Prototype Quadrupole Magnetic Cell Separator

Investigating the Role of PRMT5 in Vascular Endothelial Gene Expression

Keratinocyte Migration on Fibronectin-Coated Plates is Regulated by Activation of RLC via Src-FAK Pathway

Leptin Promotes Breast Tumorigenesis by Activating Intracellular Signaling Pathways that Induce Proliferation of Tumor Cells

Microparticle Induced Platelet Activation: A CD36-Dependent Process

Overcoming treatment resistance in hematopoietic cell lines by modulating increased Mcl-1 expression with flavopiridol

Pre-clinical feasibility, safety, and efficacy of miniaturized, wireless sensors for intervertebral disc pressure measurement

Prematurely Aging Bone Marrow Stem Cell Based Cardiac Compensation

Promyelocytic leukemia protein (PML) is required for differentiation of glioma cancer stem cells

Quantifying retinal damage in a new mouse model for age-related macular degeneration

Quantifying the rescue of the hypomyelination phenotype in Bace1^{-/-} mice by Akt overexpression

The effect of an atrial natriuretic peptide (ANP) frameshift mutation on ANP biosynthesis and its role in the pathogenesis of atrial fibrillation

The effects of adjuvant chemotherapy on breast cancer patients: disruptions in white matter and deficits in cognitive function

The Effects of Hyperosmotic Mannitol Solutions on Brain Endothelial Cells and Astrocytes

THE EFFECTS OF WNT SIGNALING ON CONNECTIVE TISSUE PROGENITOR CELLS

THE ROLE OF TRISTETRAPROLIN IN THE DEGRADATION OF ARE-CONTAINING CHEMOKINE MRNA

Class of 2015

Identification of Rho kinase (ROCK) isoform(s) activated by TNF via TNF Receptor-II in endothelial cells and ROCK participation in E-selectin induction by TNF.

Investigating the dynamics of the ribbon synapse

Phenotype of T cell recall response to malaria after in utero exposure

Act1 Deficiency Mediates Myeloproliferative Disease through Modulation of Apoptotic Signals

Activity-dependent plasticity as a possible underlying mechanism of noise-induced hyperactivity.

Adipocyte Hypertrophy is Associated with Lysosomal Permeability both in Vivo and in Vitro

Alternate anti-angiogenic signaling pathways by thrombospondin type 1 repeats for inhibition of human microvascular endothelial

cell migration

Characterization of Rnd1 and Rac1 Interactions with the Rho-GTPase Binding Domain (RBD) of the Human Plexin-B1 Receptor Using Disulfide Bond Formation

Developing PINCH-ILK-Parvin-Targeted Drugs for Potential Therapy of Heart Attacks

Development of a Predictive Model to Identify 5q+ MDS Patients Who Will Benefit from Lenalidomide Therapy

Development of an in vitro T cell adherence assay to determine the integrin requirements for the adhesion of donor-reactive CD8+ memory and effector T cells to allogeneic endothelial cells.

Differences between monocyte and microglia cell populations in Experimental Autoimmune Encephalomyelopathy

Elucidation of the Molecular Mechanism of Cardiac Dysfunction in MHC-CELF? Mice Katie Stackhouse

Examining Myeloid-Derived Suppressor Cell Sunitinib Resistance in vitro

Exploring Retroviral Transduction as a Method to Analyze the Role of Ezrin Tyrosine 353 Phosphorylation in B Cells

Loading human dendritic cells with tumor antigens to prime T cells to induce an anti-tumor immune response

Midnolin: A Novel Player in the Epigenetic Regulation of Notch

Modeling Corneal Ectasia and Cross-linking Treatments

Modulating nanoparticle-membrane interactions for enhanced endosomal escape.

Music and epigenomic regulatory patterns in healthy and epileptic brains

Progress towards Understanding the Interaction between Filamin A and CD4

RTN3 aggregation induces ER stress in RTN3 transgenic mice

Targeting Presenilin 1 to Promote Glioblastoma Stem Cell Differentiation

The effect of leptin on breast cancer stem cells

The Effect of Oxidative Stress on Aspirin Hydrolysis

The Protective Effect of Fractalkine Receptor Deficiency in a Mouse Model of Traumatic Brain Injury

The Regulatory Role of SIGIRR in Human Colon Cancer

The Regulatory Role of SIGIRR in Human Colon Cancer

The Role of Blood-Brain Barrier Disruption in Epileptic Seizures

USP37: A novel player in Cell Cycle Regulation

Working from the Inside-out: Kindlin 3's Role in Integrin Activation

Class of 2016

Axonal smooth endoplasmic reticulum (SER)

B-lymphocytes infiltrate minor histoincompatible cardiac allografts in the absence of antibody production

Bace1 and neuregulin regulate astrogenesis via the Jagged-1/Notch pathway

Characterization of Neuronal Stem Cell Circuitry

Correlations between cytokine expression and myeloid derived suppressor cells in renal cell carcinoma.

Detection and Characterization of Magnetophoretic Mobility of Melanoma cells

Epithelial, Stromal, and Total Corneal Volume in Keratoconus Using Optical Coherence Tomography

Extracellular Protein Decoration Impacts the Current Quantitative Techniques of Hyaluronan

Fluid Shear Stress Modulates the Inflammatory Response in Proximal Tubule Cells

Hepatocyte Polarization and Vascular Endothelial Growth Factor Receptors are Necessary for Proper Endothelial Cell Invasion of the Liver

Identification of immune mediators associated with pathogenesis of Pouchitis.

Mesenchymal Stem Cell Homing After Pudendal Nerve Crush in Simulated Childbirth Inju

Model Cell Membranes: The Effects of Biophysical Interactions on the Cellular Uptake and Endosomal Escape of Nanoparticles

Neutrophil-Priming and Cerebral Vasospasm

Optogenetic Investigation of Non-Human Primate Subthalamic Nucleus Neural Circuitry

p31Comet: A spindle assembly checkpoint protein and its possible impact on cancer anti-mitotics

Phosphorylation Degron in Platelets

Presence of Myofibroblasts in Duchenne-Related Fibrosis

Redox Regulation of Interleukin-13 signaling in asthma

Role of Microglial-produced IL-6 and TGF- β in Th17 Stabilization

Sex differences in B cell suppression by myeloid-derived suppressor cell subpopulations in lupus-prone mice

TGF- β 1 regulates expression of ADAMTS, ADAMTSL, and related genes in human cell lines

The effect of ezrin expression and phosphorylation on the survival of human B-cell lymphoma and leukemia cells

The effect of maltodextrin on the specific biofilm formation capacity of LF82 via a type 1 pili mediated adhesion to human colonic cells in vitro in relation to Crohn's disease

THE EFFECT OF TYPE 1 DIABETES ON THE CD36 MEDIATED INHIBITION OF ANGIOGENESIS

The Role of BMX Kinase in Therapeutic Resistance of Glioblastoma Stem Cells

The Role of CX3CL1/CX3CR1 Signaling in Regulating Angiogenesis in Alzheimer's Disease

The role of Rab13-dependent trafficking in the regulation of endothelial cell migration

TIMP3 PEPTIDES PROTECT AGAINST VEGF-MEDIATED INCREASE IN VASCULAR PERMEABILITY

Tissue Reaction in a Novel Neural Electrode

Tumor Necrosis Factor Receptors I and II Mediate Susceptibility to Imiquimod-Induced Psoriaform Disease in Mice

Visualizing the Tinnitus Circuitry with Serial Block-Face Scanning Electron Microscopy: An Exploratory Study

Class of 2017

The Therapeutic Effect of Exercise on Parkinson's disease

ADAP as a regulator of the platelet integrin α IIb β 3

Adiponectin's Role in the Clearance of Apoptotic Cells

Application of a Novel Computer-Based Algorithm to Analyze Biliary Mutant Phenotypes Identified in a Forward Genetic Screen

Biomimetic Characterization and Imaging of Engineered Nanoparticles

Carpal Arch Width Narrowing from External, in vivo, Carpal Compression

Characterization of a Novel Model of Retinal Dysfunction

Cross-talk between pro-inflammatory cytokine TNF α and beta-adrenergic receptors

Crosstalk Between EphB4 Kinase and Integrin α v β 3 During Angiogenesis

Elucidating Mechanisms of Intrinsic Resistance to VEGF Inhibitor Therapies in the Treatment of Glioblastoma Multiforme

Glomerular Cysts in a Polycystic Kidney Disease Model

Identification of LMAN1 Client Proteins Associated with Colorectal Cancer

In vitro attenuation of proliferation and stemness in glioblastoma multiforme cancer stem cells with gap junction inhibition

Inhibiting Angiogenesis via Rab13 Geranylgeranyl Transferases

Intratumoral Leptin in Breast Cancer: A New Role for the Adipose-Secreted Hormone

L-NAME preserves axon function against ischemia in young adult mammalian white matter

L1CAM signaling in GSC immune evasion: Please do not feed the phagocytes!

Mechanisms Regulating Dopamine-mediated D2-IPSCs in the Murine Striatum

Molecular basis of filamin stretching in regulation of cytoskeleton and signaling

Morphological Abnormalities of Mitochondria in AICD Mice

Quantifying Circulating Tumor Cells by Magnetic Cell Separation

Radiation dose rate impact upon tumor control and overall survival

Screening for tinnitus in hamsters using the acoustic startle reflex

Structural Remodeling and Atrial Fibrillation: the Transition from Fibroblast to Myofibroblast

Synaptic Alterations in the Hippocampus of a Multiple Sclerosis Mouse Model

Targeting Glioblastoma Stem Cells through Glucose Uptake Inhibition

The effect of a TRPV4 antagonist, HC-067047, on human lung myofibroblast differentiation

The Effects of Act1 Deletion in an Experimental Model of Psoriasis

The Potential Role for UCDC2-8 in Differentiation Therapy to Treat Acute Myeloid Leukemia

The Role of Ezrin in Neutrophils

The Role of Reticulon-3 in Human Neuropathology

TRAF2 regulated GRK2 recruitment of β -adrenergic receptor desensitization

Traumatic Brain Injury in a Mouse Model of Alzheimer's Disease

Using proteomics to search for anti-incretin factors involved in type 2 diabetes pathogenesis

Class of 2018

ADAMDEC1, a novel epidermal growth factor sheddase candidate

Arginase II and Nitric Oxide Synthases in Mitochondrial Function and Activity

Characterization of Immunosuppressive Neutrophils Induced by Stimulation with Tumor-Conditioned Media

Characterizing murine immune responses to vaccination with overexpressed breast cancer proteins

Connexin 43 expression is associated with increased aggressiveness in prostate cancer independent of gap-junction-mediated intercellular coupling

Deep Brain Stimulation of the Lateral Cerebellar Nucleus in Rodents Improves Functional Recovery of Motor Skills After Ischemia

Effect of IL-1 beta on lupus disease progression

Epigenetic therapies in acute myeloid leukemia

Evaluating Photoreceptor Damage in Zebrafish Model of Diabetic Retinopathy through use of Hyperglycemic Conditions

Ezrin-Radixin-Moesin proteins mediate ABC DLBCL cell survival through regulation of B Cell Receptor clustering

Hepatic Stellate Cells Inhibit the Immune Response of B Cells

Identification of Melanoma Circulating Tumor Cells by the k-Means Clustering Algorithm

In Situ Effects of Collagenase on the Transverse Carpal Ligament

Inflammasome activation in ApoE deficient atherosclerosis mouse models AKR and DBA/2

Investigating the Role of CAD Inhibition of NOD2 in the Inflammatory Response of the Gut

Investigation of the Role of Deubiquitinase, USP14, on DNA Damage Repair when Autophagy is Impaired

Macrophage Migration Inhibitory Factor Regulates Multiple Myeloma Tumor-Initiating Cells

MED12 mutations in myeloid neoplasms: A potential new treatment indication

Muscarinic Acetylcholine Receptors in the Dorsal Cochlear Nucleus of Noise-Exposed Hamsters

Non-canonical inhibition of PP2A function by PI3K? regulates cardiac hypertrophy

Quantifying Remyelination in an in vivo Model of Demyelination

Renal Ischemia Reperfusion Injury

Role of Mas C-Terminus in forming a "cardioprotective" scaffold

Targeting Intercellular Communication in Breast Cancer Stem-like Cells

The Auxin Inducible Degron: Aiding the study of USP37 in cell cycle regulation

The Brain Tumor Micro-environment and the Role of Monocytes in Tumor Growth

The Effect of Epigenetic Modification Drugs on the Membrane Lipid Composition of Doxorubicin-Resistant Breast Cancer Cells

The effect of type III Nrg1 activity on myelination of CNS and PNS neurons

The Role of Oligodendroglial GLT-1 Transporters on White Matter Ischemic Injury: A Gender-Dependent Study

The Role of TREM2 in Alzheimer's Disease Pathophysiology

Thrombin Signaling may Inhibit RTK-Dependent AKT activation in Breast Cancer Cells Student: Nematullah Sharaf

Unveiling the molecular pathway to OxHDL's inhibition of platelet activation Part I: PP1 interactions

Class of 2019

Characterizing the effects of low density granulocyte depletion in lupus-prone mice

Characterizing the role of Interleukin 27 (IL-27) in the immunosuppressive functions of both natural and induced regulatory T cells

Enhancing the efficacy of oncolytic virus therapy in tumors with the use of tyrosine kinase inhibitors

Image-Guided Deep Anterior Lamellar Keratoplasty (DALK) Corneal Transplant Using Optical Coherence Tomography

Mitochondrial Localization of Vasorin in Glioblastoma Stem Cells

Targeting the Elevated Invasive Potential of Glioblastoma Cancer Stem Cells

The effect of collagen-fibronectin matrix scaffolds on the osteogenic capabilities of pre-osteoblastic cells.

The Effect of Ispinesib on Genetically Distinct Mouse & Human Glioblastoma Cell Lines

An Optimization of Spectral Analysis for Ultrasound Carotid Artery Plaque Characterization

Astrocyte-neuron lactate shuttle (ANLSH) is preserved in aging white matter but does not promote axon function recovery after an episode of aglycemia

BACE1 mediated cell intrinsic and extrinsic regulation of remyelination in the peripheral nervous system

Biomechanics of the transverse carpal ligament associated with thumb abduction

Characterizing the Roles of Two Tightly Linked Metalloproteases, ADAMTS1 and ADAMTS5, in Cardiac Development

Combined Immunotherapy of PD-1 Blockade and Adoptive T Cell Transfer in a Spontaneous Breast Cancer Murine Model

Effect of NMO-IgG and patient-derived recombinant antibodies' on the blood brain barrier in vitro

Effects of Olive Oil on TMAO Plasma Concentrations in Mus musculus

Epileptogenic Zone Localization Using Stereo-Electroencephalography: A Network Theory Approach

Homing of Bone Marrow-derived Mesenchymal Stem Cells (BM-MSC) Following Post-Partum Intraperitoneal Injection into Loxl1 Knockout Mice

Identification of novel non-cytotoxic drug compounds that initiate cell cycle exit in acute myeloid leukemia cells via late differentiation genes

In vivo Bi-directional Cholesterol Transport Assay Development

Inducing the Perception of Kinesthesia in a Bi-directional Neural Machine Interface

Inducing tinnitus without concomitant hearing loss in hamsters

Investigation of Pre-Motor and Motor Cortex Burst Measurements in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine(MPTP) Induced Parkinsonian Symptoms in a Macaque Monkey

Iron-Fortified Media Optimization

Neuronal and Astrocyte Interactions in Fragile X Syndrome

Preclinical Studies on Three Novel Drug Candidates for Multiple Myeloma

Proteomic Approach to Yield Identification of Diabetics at Imminent Risk with Treatment (PAYDIRT)

The Effect of Heparin and a High Glucose Environment on Monocyte Differentiation and Hyaluronan Release

The Internalization of Bevacizumab in Glioma Stem Cells

The Role of Cdc42 in Collective Cell Migration

The role of ezrin deletion in secondary lymphoid architecture and renal immune complex deposition in a Lyn-deficient lupus mouse model

The Role of Thrombospondin-4 (TSP-4) in Mediating Angiogenesis Stimulated by Transforming Growth Factor-Beta (TGF β)

The role of TREM2 in neurodegeneration following traumatic brain injury

Class of 2020

ADAMTS7 and ADAMTS12 are essential for Cardiac Valve Development and Maintenance

Aging White Matter Injury during Aglycemia is Independent of the Astrocyte-Neuron-Lactate Shuttle

Assessment of the antimicrobial potential of low-frequency ultrasound

Cancer Stem Cells mediate Cisplatin and Complement Mediated Lysis Resistance in Ovarian Cancer

Combinatorial effects of Rituximab and Ezrin Inhibition in Diffuse Large B Cell Lymphoma

Disrupted autophagy enhances reticulon 3 expression and accumulates abnormal tubular endoplasmic reticulum

Elucidating the mechanism whereby DNMT3A mutation causes oncogenesis in AML

Elucidating the Role of Nuclear Dicer in Cancer

Evaluating The Effectiveness of A Small Molecule Inhibitor of TRAF 2 In Treating Disease In NZB/W F1 Mice: An SLE Mice Model

Hyaluronan localization in Sorsby Fundus Dystrophy

Inducing Hyperacusis in Hamsters Anesthetized During Acoustic Trauma

Inducing Kidney Cell Lineages from Human Stem Cells

Investigations into the role of serotonergic signaling in glioblastoma progression

Membrane Lipids and Beta Cell Dysfunction in Type 2 Diabetes

Meta-organismal cross talk between gut microbiota and host bile acid metabolism

Mis-splicing of lncRNAs as an alternative mechanism of leukemogenesis due to spliceosomal mutations in myelodysplastic syndromes

Potential therapeutic use of plasma membrane-derived vesicles in treatment of C5aR-mediated inflammatory disease

Probing the differences between coding and noncoding p53 mutations in breast cancer predisposition

Rational modification of an EGFR tyrosine kinase inhibitor anti-cancer drug in order to increase selectivity and minimize off-target kinase binding

SEEG Analysis of Brain Function in Decisions with Updating Uncertainty

Small molecule modulation of innate immune response

Targeting IL-17A Receptor to Prevent Airway Hyperresponsiveness in Obesity-Induced Asthma Mouse Model

The Identification of Novel Gene Fusions in Primary Prostate Cancer

The Impact of Condensing Collagen-Fibronectin Hydrogels on Osteogenesis by Pre-Osteoblastic Cells

The Mklp2 Inhibitor Paprotrain Causes Mitotic Arrest of Breast Cancer Cell Lines in a Dose-Dependent Manner

The Role of Hes4 Transcription Factor in the Maintenance of Glioblastoma Stem Cells

The role of miR-467-dependent upregulation of angiogenesis by hyperglycemia in human breast cancer and lung endothelial cells

The Role of Natriuretic Peptides and Endothelin in Left Atrial Amyloid Deposition as a Substrate for Atrial Fibrillation

The role of Triggering Receptor Expressed on Myeloid Cells 2 (TREM2) following traumatic brain injury in Alzheimer's disease pathogenesis.

The Role of VISTA in MDSC-mediated Suppression of T-cell Activation in Patients with Metastatic Renal Cell Carcinoma

The signaling pathway and role of microRNA 7 in heart failure

Zebrafish retinal Müller glia progenitors migrate from inner nuclear layer to outer nuclear layer following local injury

Clinical Science Summer Research Titles

Class of 2009

Do Pediatric Residents Regard Maternal Depression Differently Than Practicing Pediatricians?

Postinfarction ventricular septal defect: Should surgery be denied?

2-D Color Doppler M-mode echocardiography and conductance catheterization measurement techniques to monitor the effect of cardiac resynchronization therapy on left ventricular diastolic filling pattern

A comparison of mentally ill inmates to their non-mentally ill counterparts in the Euclid city jail.

A Phase III Multi-center, Open Label, Randomized Clinical Trial to Study the Efficacy and Safety of SU011248 as First-Line Systemic Therapy for Patients with Metastatic Renal Cell Carcinoma of Clear Cell Histology.

A Pilot Study of DNA Methylation of Nondysplastic Barrett's Esophagus: Progressors Versus Nonprogressors to Esophageal Cancer

A Prospective Cohort Study Evaluating Outcomes Following Deep Brain Stimulation for Treatment of Essential Tremor

A Randomized Controlled Trial of Focused Parathyroidectomy Versus Bilateral Neck Exploration for Treatment of Primary Hyperparathyroidism

Assessment of FCD Lesion Growth in Patients with Intractable Epilepsy

Assessment of Therapeutic Advancement in Adolescent and Young Adult Cancer

Association of Migraine Headache Prevalence, Type, and Severity with Patent Foramen Ovale (PFO)

Association of Novel Inflammatory Markers with Functional Capacity and Heart Rate Recovery in Patients Undergoing Exercise Treadmill Testing

Calcium and Adiposity

Corticosteroid resistance and oxidative stress in mild-moderate and severe asthma

Does a gender-specific difference exist in the ability of peak oxygen consumption (VO₂) in predicting outcome of heart failure?

Does the R462Q Mutation of the Prostate Susceptibility Gene HPC1/RNASEL Lead to More Aggressive Tumors and Earlier Onset of Disease?

Effect of Aprotinin and Postoperative Epidural on Blood Loss and Inflammation in Complex Spine Surgery

Effect of Botulinum Toxin Treatment on Lower Extremity Spasticity and Functional Performance in Ambulatory Patients with Multiple Sclerosis

Lumbar Spinal Fusion Using Allograft Enriched with Osteoblastic Progenitors

Measurement of nutritional status in Crohn's disease patients receiving infliximab therapy

Planned versus provisional use of glycoprotein IIb/IIIa inhibitors in smokers undergoing percutaneous coronary intervention

Preoperative Grading System for Primary and Secondary Intraxial and Supratentorial Brain tumors: Assessment of Surgical Risk

Radiofrequency Pulmonary Vein Isolation for Atrial Fibrillation (AF): Examining Biochemical Predictors of AF Recurrence and Pulmonary Vein Stenosis

Reassessing the Gold Standard: A Novel Statistical Model to Assess Outcomes of the Maze Procedure for Lone Atrial Fibrillation

The Impact of Direct-To-Consumer Advertising on Prescription Writing

The Safety and Efficacy of Combined Kyphoplasty and Single Fraction Radiosurgery in Patients with Pathological Vertebral Body Compression Fractures due to Osseous Metastases

Tysabri Therapy for Multiple Sclerosis: A Decision Making Analysis

What General Internal Medicine Patients Know & Want to Know about Hepatitis C

Working memory in euthymic bipolar patients

Class of 2010

Connecting Breast Cancer and Thyroid Cancer

Prospective Evaluation of the Ability of Magnetic Resonance Spectroscopy (MRS) and Fluorodeoxyglucose Positron Emission Tomography (FDG-PET) Radionecrosis from Tumor Recurrence following Stereotactic Radiosurgery (SRS)

Assessing patient and provider attitudes, values, preferences and beliefs about health care maintenance at free clinics

Assessment of Clinical and Subclinical Multiple Sclerosis Disease Severity in African Americans vs. Caucasian Americans

Association of Socioeconomic Status with Outcomes in Coronary Artery Bypass Graft (CABG) Surgery

Atypical Teratoid/Rhabdoid Tumor Registry

Changes in a Sensorimotor Functional Brain Network Associated with Intrathecal Baclofen Administration in Ambulatory Patients with Multiple Sclerosis and Severe Spasticity

Childhood Asthma: Phenotypes and Inflammatory Pathways

Correlation of Clinical Variables with Trial Lumbar Drainage Success in Normal Pressure Hydrocephalus Patients

Development of the CCF SHOULDER Score

Diagnosing Mitochondrial Oxidative Phosphorylation Disorders in Patients with Autism

Do Quantitative ECG Measures Predict Postoperative Atrial Fibrillation after Isolated CABG?

Health-Related Quality of Life in Brain Cancer Patients Treated with Temozolomide

Human Herpesvirus-6 in Critically Ill Children

Identification of Values Used by a Multi-Disciplinary Deep Brain Stimulation (DBS) Committee and its Members in the Decision Making Process

Improvement in stereoacuity relative to gains in visual acuity following treatment for anisometropic amblyopia

Influenza Vaccination and its Impact on T Cell Alloreactivity: Implications for Lung Transplant Patients

Multiple Sclerosis Patients' Perception of Tysabri Student: Sunny Kolattukudy

Non-prescription analgesics and potential adverse events in the geriatric population: a cross-sectional comparison of Emergency Department patients and Internal Medicine outpatients

One Row Versus Two Row Arthroscopic Rotator Cuff Repair

Progression to bacteremia in critical care patients admitted with nasal colonization of community-acquired methicillin-resistant Staphylococcus aureus expressing Panton-Valentine leukocidin

Prospective Cost-effective Analysis of Sestamibi and Ultrasound as Preoperative Localizing Studies for Parathyroidectomy in Patients with Sporadic Primary Hyperparathyroidism

R462Q, Environmental and Lifestyle Contributions to XMRV Transmission in Prostate Cancer Patients

Serum uric acid as a predictive factor of stroke severity

The Genetics of Atrial Fibrillation

The Impact of a Special Population Care Center on Eliminating Health Disparities

The Risks and Benefits of Performance Enhancing Substances: Perceptions of Physicians and Competitors

Tissue LOXL1 in Female Pelvic Organ Prolapse

Class of 2011

Comparative immune restoration in HIV-1 infected patients initiating either NNRTI or PI-based HAART regimens

Intraoperative Goal-Directed Fluid Management in Lean and Obese Patients

Acute effect of nitric oxide on pulmonary insufficiency in congenital heart disease

Clinical Ocular Biomechanics in Keratoconus Patients

CNS Markers of Inflammation and Blood Brain Barrier Disruption in Psychotic Children

Defining clinically meaningful change in Attention-deficit hyperactivity disorder (ADHD)

Development and Validation of an Anatomically-Scored Patient Reported Knee Outcome Measure

Effect of Co-Morbidity on Complications and Clinical Outcome After Primary Total Shoulder Arthroplasty for Treatment of Primary Osteoarthritis

Emerging Techniques in Echocardiography: Implications of speckle tracking on the differentiation constrictive pericarditis from restrictive cardiomyopathy

Endovascular Therapy versus open surgery for treatment of chronic distal aortic dissection

Establishing the relationship between lead exposure and asthma development: A cross-sectional case-controlled study

Heart Failure and AUDICOR Technology for Rapid Diagnosis and Initial Treatment: The HEARD-IT Trial

Hydroxyurea: possible prevention of silent cerebral infarct in sickle cell anemia

Inactivation of DNA repair enzyme MGMT in chemotherapeutic resistant glioblastoma multiforme through dosing variations in temozolomide schedules

Increased Cardiovascular Risk and Altered Cardiac Biomarkers in Immunologically-Mediated Schizophrenia

Infection-related inflammation and graft rejection in pediatric lung transplantation: A single-center retrospective case-control preliminary study
Inflammation, statin use, obesity and recurrence of atrial fibrillation after Cardioversion
Interventional Strategies for Ischemic Cardiomyopathy with Concomitant Functional Ischemic Mitral Regurgitation
New radiation therapy technologies and a potential application to treatment of localized renal cell carcinoma in patients who are not candidates for
Obesity and Inflammation
Optimization of MRI-based muscle atrophy and fatty infiltration assessments for Rotator Cuff Muscles
Perioperative hyperglycemia and rate of surgical site infection after craniotomy
Plasmalogen Assay for the Early Detection of Ovarian Cancer Specificity Analysis: The Effect of Ovulation on Serum Plasmalogen Concentrations
Radiosurgical Ablation of Renal Tumors
Response to Vitamin D Insufficiency Distinguishes Single Adenomas from Multigland Hyperplasia in Patients with Primary Hyperparathyroidism
Surgical Management of Patients with Ischemic Cardiomyopathy
Surgical Management of Sinus Venosus Atrial Septal Defect with Partial Anomalous Pulmonary Venous Connection in Adults
Testing a New Device for Determining Bone Strength
The Effect of Heart Failure Patient Education Interventions on Core Outcome Measures
The Use of Platelet Rich Plasma in Mandibular 3rd Molar Extraction Socket
Using Prophylaxis Plus Preemptive Therapy in D+/R – Solid Organ Transplant Recipients to Decrease Incidence of Cytomegalovirus-Related Morbidity
Resistance

Class of 2012

A Model to Predict Failure of Uterine Fibroid Embolization
Changes in novel components of the Ocular Response Analyzer waveform to determine corneal biomechanical changes in LASIK hyperopes and myopes
Incidence and Timing of Complications Following Craniotomy for Supratentorial Brain Tumor Surgery.
Retrospective Analysis of X-stop Failures and Subsequent Management
A prospective nonrandomized trial comparing traditional and modified C7 lateral mass screw placement techniques in patients undergoing posterior cervical spine fusion
A Study of Dystonia Outcomes in Patients Receiving Deep Brain Stimulation
Arthroscopic Versus Open Management of Lateral Epicondylitis
Black Race is an Independent Predictor of Lower Survivability Subsequent to Direct Current Cardioversion
Cardiovascular event risk in patients with secondary and tertiary hyperparathyroidism: Development of a model for reducing risk with parathyroidectomy
Clinicopath predictors for BCG treated patients diagnosed with high grade superficial urothelial cell carcinoma
Descriptive Epidemiology of Latent Tuberculosis Infection among Healthcare Workers at the Cleveland Clinic
Effect of pre-operative factors on longitudinal left ventricular reverse remodeling following aortic valve replacement
Evaluation of long-term outcomes following implantation of spinal cord stimulation Laminectomy electrodes
Evaluation of the Novel Multiplexed Methylation Profiling Assay (MMPA) on Fecal and Tissue Specimens from Patients with Colorectal Cancer Undergoing Colectomy
Fetal exposure to Placental Insufficiency as Risk Factor for School-Age Sleep Disordered Breathing in Children Born Preterm
Fluid flow changes in normal-appearing white matter of multiple sclerosis patients after administration of Tysabri
Health Status and Barriers to Care amongst Uninsured Patients seeking care in Emergency Departments and in the Free Clinic of Greater Cleveland
Patient-Perceived Efficacy of the AdVance® Sling for Treatment of Male Stress Urinary Incontinence
Patterns of non-steroidal anti-inflammatory drug use for juvenile idiopathic arthritis in the era of modern aggressive treatment
Predictors of Pericardial Effusion following open heart surgery
Prevalence of Vision Problems among 4-6 Year Olds in Cleveland
Redefining Parathyroid Hormone Reference Range Using Vitamin D Status

Response of Aplastic Anemia Patients to Immunosuppressive Treatment: Clues into Disease Etiology

Retrospective Analysis of X-stop Failures and Subsequent Management

Stop n' Roll Hall of Fame: Treatment effects of Natalizumab on the leukocyte-endothelial interaction at the blood brain barrier (BBB)

The impact of transplant nephrectomy on donor specific antibody levels

The Role of Pressure in Descemet-Stripping Automated Endothelial Keratoplasty (DSASEK)

The role of spinal stenosis in ventriculomegaly due to reduced cranial-spinal compliance.

The Utility of Plasma Free Fatty Acids in Risk Assessment of Sepsis in the Emergency Department

The Value of Surgeon Experience on the Prevalence of Avoidable Thyroid and Parathyroid Reoperations

Thyroid Hormone Levels in Thyroid Cancer Patients May Affect the Development of Breast Cancer

Validation of a musculoskeletal quality of life (msQOL) tool and preliminary validation of OrthoMIDAS joint-specific questionnaires

Which Patients Should be Considered for More Extensive Surgical Repair of Acute Type A Aortic Dissection?

Class of 2013

Effect of Pre-transplant Vaccination on Acute Rejection in Lung Transplant Patients

Adjuvant whole brain radiotherapy versus adjuvant temozolomide treatment following stereotactic radiosurgery for brain metastases: a randomized control trial

Assessing the Neuroprotective Effects of Phenytoin in Patients with Optic Neuritis

Assessment of Longitudinal Change in Right Heart Structure and Function after Mitral Valve Surgery.

Autism Spectrum Disorders in Individuals with Fatty Acid Oxidation Defects Identified in Newborn Screening

Cognitive Function, Dementia, and Childhood Environment: An Internal Migration Cross-Sectional Study

Comparison of Full and Motor-Sparing Nerve Blocks to Narcotic Analgesia in ACL Reconstruction

Comparison of the Diagnostic Accuracies of LDL Cholesterol and LDL Mean Particle Size in Predicting True Cardiovascular Risk Status

Determination of risk factors associated with recurrent infection with KPC-producing Klebsiella pneumoniae: a case-control study.

Downstream effects of Drug Eluting vs. Bare Metal Stents

Dysregulation of mitotic spindle checkpoint in bladder cancer

Echocardiographic Characteristics of Patients with Isolated Functional Mitral Regurgitation of Unknown Etiology

Effects of Glenohumeral Anatomy in Total Shoulder Arthroplasty for Osteoarthritis

Effects of sleep deprivation on seizure frequency in epileptics.

Evaluation of Sorafenib, an Angiogenesis and Selective Tyrosine Kinase Inhibitor, to Treat Juvenile Pilocytic Astrocytomas

Genetic markers associated with cardiomyopathy

Immunogenicity of a meningococcal vaccine in children with sickle cell disease

Lipoprotein (a) and Cardiovascular Risk in Primary and Secondary Prevention Patients: A Prospective Cohort

Long-term efficacy of thalamic deep brain stimulation for essential tremor: A Prospective Analysis

Needle Biopsy of Very Large Renal Masses: Technical Failure and Risk Factors

Optimizing Local Anesthetic Concentration for Continuous Femoral Nerve Blocks

Phase III Study of Stereotactic Radiosurgery for the Treatment of Spinal Metastases

Prognostic Value of Arylesterase in Assessing Cardiac Risk

Serum Neutrophil Gelatinase-Associated Lipocalin (NGAL) and Acute Renal Impairment in Acute Decompensated Heart Failure (ADHF)

T-helper cell cytokine profiles and sustained virologic response to antiviral treatment in liver transplant recipients with recurrent hepatitis C virus: A retrospective case-control study.

The Effect of Music Therapy on Pain Scores in Chronic Pain Patients

The Role of Iron Metabolism in Pulmonary Arterial Hypertension

The role of medical assistants in outpatient primary care medication reconciliation: an observational study

The Role of Socioeconomic Factors in Health Outcomes Among Patients with Acute Aortic Syndrome.

Time-Domain versus Spectral-Domain Optical Coherence Tomography in Guided Ranibizumab Treatment of Exudative AMD:

Treatment of Actinic Keratoses with Vitamin D as an Adjuvant to Traditional Photodynamic Therapy

Trial of Two doses and Two durations of Tadalafil to Prevent Flap Necrosis

Use of Diffusion Tensor Imaging to Assess Memory Loss in Multiple Sclerosis

Utilization of PTX as a Treatment for Primary Hyperparathyroidism: Changing Referral Patterns

Why do patients seek care at retail clinics?

Class of 2014

Cohort Study of CSF Profile as a Predictive Factor for Relapse Rate in Pediatric Multiple Sclerosis

A prospective, cohort study assessing the outcomes and cost-effectiveness of different methods used in vertebral reconstruction during cervical corpectomy

A Randomized Clinical Trial for temozolomide plus High-dose Methotrexate versus High-dose Methotrexate Only in the Treatment of Primary Central Nervous System Lymphoma

A Randomized Controlled Trial of Neoadjuvant Therapy Prior to Nephrectomy in Advanced or Metastatic Renal Cell Carcinoma

A Simplified, Noninvasive Stool DNA Test for Colorectal Cancer Detection

Accuracy of Guardian-Administered Measurement of Child's Waist Circumference in Accuracy of Guardian-Administered Measurement of Child's Waist Circumference in the Pediatric Population

Acute treatment of pediatric bipolar I disorder, manic or mixed episode, with extended-release carbamazepine: a randomized, double-blind, placebo-controlled study

Administration of Oblimersen to Poor Prednisone Responders in Adults with Acute Lymphoblastic Leukemia

Aggressive insulin treatment in the reduction of intra-operative glucose levels and its potential effect on development of surgical site infection

Aggressive insulin treatment in the reduction of intra-operative glucose levels and its potential effect

Anterior Cruciate Ligament Reconstruction Outcomes and Socioeconomic Status

Continuity of the photoreceptor inner/outer segment in exudative age-related macular degeneration

Design of a Case-Control Study to Identify Risk Factors Associated with Deep Incisional Surgical Site Infections after Pediatric Cardiac Surgery

Determinants of Cancer Risk in Diabetes: An Observational Retrospective Cohort Study

Development of a novel scoring criteria/classification system for evaluating the necessity of a sternotomy for removal of a mediastinal thyroid goiter or mediastinal parathyroid tissue.

Does mitral regurgitation associated with mitral annular calcification require treatment during aortic valve replacement?

Effect of Hemoglobin Level and Anemia Treatments on Functional Performance, Hemodynamics and Survival in Patients with Pulmonary Arterial Hypertension and Scleroderma: a Randomized Clinical Trial

Effect of Parkinson's Medications on Impulse Control

Effect of Surgery for Endometriosis Associated Pain on Long Term Fertility Outcomes

Ex-Vivo Reconditioning of the Human Lung: Increasing Donor Organ Utilization

Genetic and clinical predictors of atrial fibrillation ablation success

Impact of differential respiratory viral infections and cytokine activation profiles on graft outcomes in lung transplant patients

Impairment of Nitric Oxide Bioavailability and Nitrate Stress in Patients with Cardiogenic Shock

Implications of Vitamin D Status for Acute Closed Scaphoid Fracture Healing Time

New Diagnostic Methods for Infection in Revision Shoulder Arthroplasty

Oxidized lipid products as indicators of nonalcoholic fatty liver disease in pediatric patients with metabolic complications of obesity

Prevalence of residual shunting in surgically repaired patent foramen ovale and association with perioperative outcomes and long-term survival

Randomized control trial to determine best surgical practices for resolution of pain and myelopathy in cervical instability of rheumatoid arthritis

Recombinant HDL and its Effects on Leukocyte Subtypes

Retrospective Case-Control Study of Fusarial Fungal Infections at the Cleveland Clinic.

The Effect of anti-TNF α therapy on lipid profiles of patients with systemic rheumatic diseases

The use of bioimpedance vector analysis in the emergency department setting for quick differentiation of patients presenting with shortness of breath due to cardiac and non-cardiac problems.

Treatment response of Fluocinolone (Retisert™) implantation in those with uveitic macular edema: An OCT study.

Class of 2015

Effect of Gastric Bypass Surgery on a Diabetic and Non-Diabetic Cohort

Impact of Family Therapy on Quality of Life and Family Stress for Families with Epilepsy

Relationship between plasma and cerebrospinal fluid ammonia, glutamine and urea.

The effect of outpatient facility on outcomes of Community-based Outpatient Parenteral Anti-infective Therapy (CoPAT)

A description of Neuromyelitis Optica in the pediatric population.

A Genetic Study of Patients with Age-Related Macular Degeneration Based on Their Proteomic Profile

A randomized controlled trial of hypothermia therapy during transport in neonates with hypoxic ischemic encephalopathy.

Allosensitization in Liver Transplantation

Analysis of Neurocognitive Processing of Facial Recognition in Observers of Faces with Severe Deformities Utilizing Functional-MRI

Comparing ROP Incidence and Neurodevelopmental Outcomes of Premature Infants In Two Oxygen Saturation Protocols

Comparison of Internal Nasal Valve Correction Techniques Used in the Treatment of Nasal Obstruction

Determining the fertility benefit of controlled ovarian hyperstimulation with intrauterine insemination after operative laparoscopy in patients with endometriosis

Determining the role of IgG4 in the pathogenesis of pouchitis

Effectiveness of conventional echocardiographic measurements in predicting left ventricle volumes: a comparison with cardiac magnetic resonance

Identifying Risk Factors for Surgical Site Infection in Pediatric Spine Procedures

Incidence and biologic modulation of depression in juvenile idiopathic arthritis

Influence of Glenoid implant retroversion on anterior–posterior humeral prosthetic eccentric loading after Total Shoulder Arthroplasty

Predicting Postoperative RV Failure in LVAD Patients using Preoperative ECHO Measures and RV Failure Risk Scores to Improve Survival through Planned RVADs

Preventing suicide in patients with multiple sclerosis and epilepsy

Prospective evaluation of a model of prediction of risk of non-severe infection in pediatric cancer patient

Racial differences in the natural disease course of ulcerative colitis: Do health disparities play a role?

Recombinant Human Bone Morphogenetic Protein-2 in Transforaminal Lumbar Interbody Fusion: A Prospective Randomized Trial

Retrospective Analysis of CLOSURE I Population

Role of gut flora-mediated metabolism of phosphatidylcholine metabolites in heart transplant recipients with CAV

Sling or Surgery: Investigating Complications & Functional Outcomes after Clavicle Fracture Treatment

Strategies for fluid management during and after heart surgery: A randomized trial.

Targeted Radiation of Neural Stem Cells in Treatment of GBM

Taurine as a Biomarker for Effective Leukotriene Inhibition in Asthma

The Impact of Concomitant Coronary Artery Disease on Treatment Outcomes Following Transcatheter or Surgical Aortic Valve Replacement

The impact of regional perfusion on neurological outcome post cardiopulmonary bypass in a cohort of pediatric patients with congenital heart disease

The Lasting Effects of Vaccination in Pediatric Solid-Organ Transplant Recipients

Class of 2016

Comprehensive Analysis of Temporal Artery Biopsies for Diagnosis of Giant Cell Arteritis

The IHOPS Study Intraoperative Hemodynamic management on Postoperative stroke and cognitive outcomes: A Large Multicenter Randomized Controlled Trial of Strict Hemodynamic Management vs. Standard Practice in General Surgery Patients

A Double-blind, Randomized, Multi-center Study Comparing Retinal Structural Changes with Ibudilast or Placebo Therapy in Patients with Acute Optic Neuritis

A Predictive Model for the Optimization of Initial Shock Energy in Direct Current Cardioversion for Atrial Fibrillation

A Randomized Controlled Trial to Compare Repeat SBRT with Conventional EBRT for Treatment of Recurrent Spinal Metastases

A Retrospective Analysis of Femoropopliteal Bypass Graft Outcomes Comparing HePTFE Grafts to ePTFE Grafts

Analysis of body fluid localization after cardiac surgery: A prospective clinical cohort study

Breath Isoprene as a Novel Biomarker for Pediatric Non-Alcoholic Fatty Liver Disease (NAFLD)

Cardiac Resynchronization Therapy in Heart Failure Patients with Mildly Reduced Ejection Fraction (HEFMEF-CRT)

Comparing fosfomycin-colistin and tigecycline-colistin treatment of bone and joint infections caused by *Klebsiella pneumoniae* carbapenamase producing *Klebsiella pneumoniae*: a double-blind, randomized, multi-center trial

Diagnostic accuracy of clinical predictors for post-operative catheter associated urinary tract infections in women undergoing pelvic floor procedures

Effects of Immunosuppressants on Post Thoracotomy Pain Syndrome Incidence

Elucidating Risk Factors for *Clostridium difficile* Infection in Home-Based Outpatient Parenteral Antimicrobial Therapy

Epidemiology, Risk Factors and Clinical Outcomes of Lung transplant Recipients in the Lung Allocation Score Era Requiring Admission to the Medical Intensive Care Unit at a Tertiary Care Center

Frequency and Severity of Vasomotor Symptoms in Perimenopausal and Postmenopausal Women with Multiple Sclerosis

Multicenter Prospective Cohort Study to Compare the Progression of Cardiac Abnormalities in Patients with Repaired Congenital Pulmonic Stenosis and Tetralogy of Fallot

Outcomes and trends associated with acute type B aortic dissections in the Nationwide Inpatient Sample

Prebiotic treatment decrease cardiovascular risk among HIV-positive patients by modulating gut flora metabolism of phosphatidylcholine

Preoperative predictors of 30-day mortality in adult orthotopic liver transplant recipients

Pseudotumor Cerebri: New approaches in patient selection and therapy monitoring

Randomized Controlled Trial of the Effect of Forced-Exercise on Postural Stability of Parkinson's Disease Patients

Study of photocoagulation and avastin mortality in retinopathy of prematurity

Surgical Ablation versus Medical Therapy for Atrial Fibrillation in Patients with Congenital Heart Disease: A Triple Blind, Randomized, Controlled Trial

Surgical Treatments of Cervical Radiculopathy: Cost Effectiveness of Anterior Cervical Discectomy and Fusion compared with Posterior Cervical Foraminotomy

The Effectiveness of Guanfacine as well as Guanfacine and Behavior Management in treating Children with Attention-Deficit/ Hyperactivity Disorder

The Effects of Deep Brain Stimulation on Parkinson's Disease Related Dysphagia and Dysphonia

The Prediction of Total Knee Replacement in Patients with Knee Osteoarthritis using Semiquantitative MRI measures

The Role of the Thymus in Hyperparathyroidism due to Hyperplasia

Use of rhBMP-2 in combination with tapered interbody fusion cages: A prospective analysis of clinical and radiographic outcomes in anterior lumbar

Valium's Effect on Uterine Contraction During Embryo Transfer to Improve Success Rates of ART

Weight Loss as an Intervention to Improve Cognitive Function in Overweight and Obese Type 2 Diabetics

What Lymphocytes are Responsible for the Prognostic Impact of Day 28 Absolute Lymphocyte Count on Outcome for Adult Patients with Acute Lymphoblastic Leukemia?

Class of 2017

Effects of CrossFit and Recommended exercise and dietary interventions on insulin sensitivity, cardiometabolic risk, and psychological factors in sedentary, obese individuals.

A Prospective Study of ss469425590 Genotype and Hepatitis C Progression Following Liver Transplantation

A randomized controlled trial comparing robotic cystectomy using intracorporeal urinary diversion with open cystectomy

A Randomized Study of Breast Conserving Therapy Versus Mastectomy for Women with Stage I or II Triple-Negative Breast Cancer

A Randomized Trial of Ibuprofen to Decrease Cerebral Vasospasm and Improve Cognitive Outcome in Subarachnoid Hemorrhage Patients

Acetylcarnitine Supplementation with Lifestyle Interventions and Independence for Elders Study

Acute type B aortic dissections: plasma matrix metalloproteinase-9 (MMP-9) as a predictor of outcome in uncomplicated patients

Air Pollution and Acute Coronary Syndrome: a Case-Control Study

Aortic Atherosclerotic Plaque Burden and Adverse Cardiovascular Outcomes in Patients Undergoing Transcatheter Aortic Valve Replacement

Assessing the benefits of IMATCH (the Interdisciplinary Method for the Assessment and Treatment of Chronic Headache): A retrospective cohort study

Bicuspid Aortic Valve Morphology and Its Association with Aortopathy of Cardiac Surgery Patients: A Retrospective Analysis and Genetic Mutation Study of ROCK

D2 Taq A1 Allele Frequency & Association with Post-Surgery Substance Abuse in Roux-en-Y Bariatric Surgery Patients

Double-Blind Placebo-Controlled Trial of Conventional Concurrent Chemoradiation and Adjuvant Temozolomide plus Metformin Versus Conventional Concurrent Chemoradiation and Adjuvant Temozolomide in Patients with Newly Diagnosed Glioblastoma

Effect of Genetic Subtype and Type of Mutation on cCSNB Phenotype

Effect of patient reminder interventions on adolescent immunization: a randomized controlled trial

Effect of Spironolactone on Right Ventricular Remodeling in Transposition of the Great Vessels: a multi-center, randomized, placebo-controlled trial

Evaluation of an Intervention for Heart Failure Clinic Patients with Cognitive Impairment

Fetal MRI to Predict Anatomic and Developmental Outcome in Hydrocephalus

FGF23 as a potential biomarker of CAD severity in the CKD population

Photodynamic Therapy using Verteporfin Vs Surgical Excision for Nodal Basal Cell Carcinoma

Post-surgical Outcome for Temporal Lobe Epilepsy Associated with Focal Cortical Dysplasia: International League Against Epilepsy Type I vs. Type IIIa

Prevalence of Bicuspid Pulmonic Valve and its Association with Pulmonary Artery Dilatation

Primary Care vs. Sleep Specialist in the Long Term Follow-up of CPAP

Prophylactic Foraminotomy for the Prevention of C5 Palsy in Cervical Decompression Surgery: A Randomized Controlled Trial

Pyridoxine and Dietary Counseling for the Treatment of Hyperoxaluria after Bariatric Surgery

Randomized control trial comparing radiosurgery and conventional external beam radiation therapy for treating radiation resistant spinal metastases

Randomized Placebo-Controlled Trial of Enoxaparin Plus Compression Boots Versus Compression Boots Alone for the Prevention of Venous Thromboembolism in Patients with Intracerebral Hemorrhage

Reactivation of Herpes Simplex Virus in Neurosurgery Patients

Reducing Central-Line Associated Complications in the Outpatient Setting Using an Innovative Electronic Tool

Single nucleotide polymorphisms at 4q25 associated with Right and Left Ventricular Outflow Tract Tachyarrhythmias

TBD

The Efficacy of KTP Lasers in the Treatment of Laryngeal Papillomatosis

THE ROLE OF RIFAMPIN IN SURGICALLY TREATED INFECTIVE ENDOCARDITIS CAUSED BY STAPHYLOCOCCUS: A RETROSPECTIVE COHORT STUDY

Whole brain radiation therapy with or without stereotactic radiosurgery for the treatment of multiple synchronous brain metastases from lung cancer

Class of 2018

A Phase II study to assess the efficacy of autologous mesenchymal stem cell transplantation in patients with secondary progressive and primary progressive multiple sclerosis.

Comparison of Adult and Pediatric International Knee Documentation Committee (IKDC) Subjective Knee Evaluation Form Scores in an Adult Population

Novel drug therapy for the prevention of retinopathy of prematurity (ROP) through inhibition of hypoxia-inducible factor (HIF) prolyl hydroxylase: a Phase I randomized controlled trial

The effect of intravenous iron administration on blood transfusion requirements and postoperative hemoglobin levels in anemic patients undergoing elective cardiac surgery: a randomized trial

A phase 1 trial of nivolumab with high dose cytarabine as salvage therapy for relapsed or refractory acute lymphoblastic leukemia.

A1245C mutation of 3βHSD1 gene as a biomarker for the resistance to Abiraterone treatment in patients with metastatic castration resistant prostate cancer

Aortic Valve Replacement for patients with Native Aortic Insufficiency: Implications for TAVR

Associations between Functional Outcomes after Deep Brain Stimulation and Candidate Gene Mutations in Parkinson's Disease: A Pilot Study

Cardiac Resynchronization Therapy vs Right Ventricular Pacing in Congenital Heart Patients with AV block: A Randomized Clinical Trial

Cervical spondylodiscitis: risk factors for failure of medical management, a retrospective review

Chemotherapy-related cognitive impairment in non-small cell lung cancer patients treated with adjuvant, platinum-based regimens

Determination of the mechanism for increased CSF VEGF levels following exercise in patients with normal pressure hydrocephalus.

Effectiveness of An Automated Referral Initiative to Preventive Cardiology for Patients with Rheumatoid Arthritis

Effects of Training via Motor Imagery and Brain-Computer Interface Biofeedback in Neurosurgery Residency

Evaluating stereotactic body radiation therapy (SBRT) for spinal oligometastases.

Evaluation of an Atherogenic Metabolite During Preeclampsia

Evaluation of Tongue Perfusion and Oropharyngeal Complications during Suspension Microlaryngoscopy using Surface Capillaroscopy.

Examining Facial Skin Thickness Changes Over Time

HTK versus UW Preservation Solution in Deceased Donor Liver Transplantation

Identification of Risk Factors for Prolonged Disease in Patients with DSM-5 Eating Disorders

Impact of body mass index (BMI) on the incidence of laboratory abnormalities during isotretinoin therapy for patients with acne

Music, Motor-related Neurons and Awake DBS Surgery

Predicting Pulmonary Toxicities in Patients with Central Lung Tumors Treated with Stereotactic Body Radiation Therapy

Racial differences in dose response to albuterol

Safety and Feasibility of Normothermic Machine Perfusion in the Preservation of Liver Allografts

The effect of a patient-education intervention to improve lung cancer screening

The Relationship of Intra-Pancreatic Fat to Diabetes Duration and β Cell Function

The Role of Leptin and Insulin in Thyroid Cancer

Understanding the Role of IgG3 Autoantibody Against β 1-Adrenergic Receptors in Recent-Onset Cardiomyopathy Patients

Utility of preoperative urine cultures prior to elective open reconstruction for treatment of vesicoureteral reflux: a randomized non-inferiority trial

Venous sinus stenting in pseudotumor cerebri

Voice Therapy Treatment for High-Risk Asymmetry Dysphonic Patients

Class of 2019

Validation of EndoFLIP as a Tool for Gastroparesis Assessment

25(OH)-Vitamin D3 status
in Pediatric POTS

Active hypothermia during transport of neonates with hypoxic-ischemic encephalopathy

Added value of acoustic radiation force impulse (ARFI) imaging to B-mode ultrasound (US) imaging, in the detection of liver fibrosis in patients undergoing liver US imaging for primary biliary cirrhosis (PBC)

Breast Reconstruction Following Breast Cancer in Very High Risk Patients: A Prospective Randomized Study

Clinical Outcomes after Being Started on Intravitreal Eylea versus Intravitreal Avastin/Lucentis in Patients with Newly Diagnosed Macular Edema Secondary to Central or Branch Retinal Vein Occlusion

Comparison of Pollicization and Nonvascularized Toe Phalangeal Transfer and Distraction Lengthening for Blauth Type IIIB Hypoplastic Thumbs

Development of biomarkers associated with the immunopathogenesis of recurrent pericarditis

Efficacy of clonidine as first line drug with morphine in the treatment of neonatal abstinence syndrome: A prospective randomized controlled trial

Exploration of the Effects of Patient-Physician Racial and Gender Concordance on Preference and Comfort with Seeking Care

Genetic control of female left atrial gene expression could provide insights for genetic susceptibility for atrial fibrillation

Health Outcomes and Cost of a Spine Surgery Care Path

Impact of Avatar Fidelity in Virtual Reality Based Motor Imagery Training on Brain Machine Interface Performance

Influence of patient age on Interstim stage 1 trial success and post-stage 2 implantation time-to-revision

Integrating Proteinuria with Glomerular Filtration Rate for Risk Stratification of Patients Requiring Renal Cancer Surgery: Impact on Overall Survival and Stability of Renal Function

Investigating factors that may influence the relationship between residual tumor volume and survival in patients with glioblastoma

Long-term Outcomes of Primary Reverse Shoulder Arthroplasty with Autologous Bone Graft

NOVEG: A phase 3, multicenter, randomized, double-blind controlled trial of JW4430, a NOVEL biofilm-active aGent in infective endocarditis

NPO Status is Not Associated with Increased Adverse Events in Emergency Department Procedural Sedation: A Retrospective Cohort Study

One-year Progression of Joint Space Width Narrowing following Arthroscopic Partial Meniscectomy

Optimizing Postoperative Outcomes of Lumbar Fusion Using the O-arm

Perioperative diabetes management following Roux-en-Y gastric bypass: a randomized clinical trial

Progression of Geographic Atrophy in Patients Undergoing Anti-VEGF Therapy

Quality of life in ambulatory vs. non-ambulatory MS patients following intrathecal baclofen therapy

Referral Patterns of Employed and Independent Physicians in the Care of Inpatients

Risk factors for

Clostridium difficile infection

in liver transplant recipients

Risk factors for development of TNF-alpha inhibitor-induced psoriasis

Severity of melanoma in patients treated with TNF-a inhibitors

Surgery vs. Physical Therapy for Acute Anterior Cruciate Ligament Tears in Patients Thirty Five and Older: A Randomized Controlled Trial

The effect of cryopreservation protocol and patient characteristics on ovarian tissue viability

The Effects of Disclosing Physicians' Financial Relationships with Industry in a Hypothetical Encounter

The Effects of High-Dose Biotin on DTI Measures and Functional Impairment in Progressive Multiple Sclerosis Patients

Uric Acid and Progression of Chronic Kidney Disease