

2006 Basic Science Research Projects

The Mechanism of Velcade and its Efficacy in Hematological Malignancies
BACE1 Modulates Myelination in the Central and Peripheral Nervous System
Conditioning Tumor-Competent Dendritic Cells with Flt3L+IL6
Cholinergic Activation of Mononuclear Blood Cells and Blood-Brain Barrier Disruption in an Animal Model of Temporal Lobe Epilepsy
Parkin, alpha, and beta synuclein: interactions and implications for Parkinson's disease
The Role of Hyaluronan & Fibrinogen in Inflammatory Bowel Disease
Human Idiopathic Pulmonary Arterial Hypertension is Associated with Reduction in both Cytosolic and Extracellular Superoxide Dismutase Enzymes
Building a better B ₁₂ assay using high performance liquid chromatography and microbiological detection
Effects of bilateral and unilateral DBS on dual task performance in Parkinson's disease
Delivery of Viral Clostridial Light Chain through an Adenoviral vector to Control Kainic Acid- induced
Role of Heterogeneous Nuclear Ribonucleoproteins (hnRNPs) E1 and K in Translational Silencing of Disabled-2 (Dab2) Expression
Mechanism of US17 Segmentation in Human Cytomegalovirus
Visualization and Classification of Multiple Sclerosis Lesion Dynamics
Mechanisms of atherosclerotic lipoprotein uptake in macrophages
A Murine Model for Autoimmune Oophoritis: Implications for an Ovarian Cancer Vaccine
Regulation of NFkB and b-catenin by the PI3K/AKT/IKK Pathway in Melanoma
Bone Sialoprotein is a Crucial Ligand for Apatite Nucleation in Osteoblast Cultures
Aminolevulinic acid-induced Photodynamic Therapy of Human Squamous Cell Carcinomas: Potential Enhancement by Methotrexate and 5-Fluorouracil
Acute Anatomical Effects of Vaginal Distention in the Rat
Examining the Hedgehog signaling pathway: Attempts to identify targets that regulate Smoothed
The Expression of HIV-1 Reverse Transcriptase and Analysis of its Non-Nucleoside Drug-Binding Properties
Leukocytes activation triggers the release of microparticles containing active Mac-1 ($\alpha_M\beta_2$) integrin.

Micro-Computed Tomography and Quantitative Morphometry of the MT1-MMP and MMP-2 null mice
Sex-differences in the CELF-mediated Alternative Splicing of Developing Heart
STAT3 Acetylation and Activity
Do Genetic Differences Account for the Racial Disparity in Survival of Endometrial Cancer?
Blood plasma gangliosides induce systemic immunosuppression
Codon 129 Polymorphism Influence PrP Conformation
Effectiveness of Mechanical Augmentation of Rotator Cuff Tendon Repairs
Mechanisms of LPS-induced Preconditioning in Heart and Brain
Regulation of BEGF Expression in Glioblastoma Multiforme: Role of Activated STAT3
Sensitizing WM164 Melanoma cancer cells to IFN-induced apoptosis by re-expression of epigenetically silenced tumor suppressor genes

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A Dynamic Model of the Blood-Brain Barrier as a Tool for Studying Leukocyte-Endothelial Cell Interactions in Neuroinflammation
Effects of assisted exercise on motor functions of Parkinson's disease patients
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
Effect of Loss of Mutated in Colorectal Cancer (MCC) gene in the initiation and progression in serrated neoplasia colorectal cancer
Altering Muskelein Intracellular Localization and Binding to RanBP9 through Single Nucleotide Polymorphisms
Purinergic mechanism of hyperglycemia-induced IL-8 up-regulation in human endothelial cells
Functionalizing Nanoscale Polymer Gene Carriers with MRI Contrast Agent
Role of cGMP-Protein Kinase in LPS Activation of Platelets
Dendritic cells cultured with dual TLR agonists activate and expand antigen-specific CD4 and CD8 T cells
Intradiscal Pressure: A Measure of Disc Health
Improving the Etiologic Diagnosis of Culture-Negative Infective Endocarditis at a Tertiary Heart Center
Expression array analysis of interferon stimulated genes
MATER Autoimmunity: A Model for Human Premature Ovarian Failure?
Bace1 Modulates Remyelination in the Peripheral Nervous System
Using NMR Spectroscopy to Detail Binding between Filamin A repeats 10 and 12 to CD4 Receptor
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
Reversible phosphorylation of Cubitus interruptus in <i>Drosophila</i> Hedgehog signaling
Quantifying the Effects of Non-elastic Behavior in Knee Cartilage under Simulated Weight-bearing Conditions
Myelin alters synaptic plasticity
A Critical Role for Fibrillar Collagens in Biomineralization In Vitro
Electrical Stimulation of Peripheral Afferent Nerve Endings within the Proximal Urethra Evokes Bladder Contractions

The Role of the Platelet CD36 Receptor in Hemostasis
THE EFFECT OF TYPE 1 DIABETES ON THE CD36 MEDIATED INHIBITION OF ANGIOGENESIS
Speckle Tracking Echocardiography to Evaluate Strain in Mice Subjected to Isoflurane Anesthesia
T regulatory cell induction by renal cell carcinoma and glioblastoma multiforme
The effects of muscular injury on neuroregeneration in simulated childbirth
A β oligomers induce neuronal process loss and cell cycle events in Alzheimer's Disease
Gray Matter Magnetization Transfer Ratio and Subsequent Gray Matter Atrophy
BACE 1 Modulates Remyelination in the Peripheral Nervous System

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The Genetics of Atrial Fibrillation
Atypical Teratoid/Rhabdoid Tumor Registry
The Impact of a Special Population Care Center on Eliminating Health Disparities
Progression to bacteremia in critical care patients admitted with nasal colonization of community-acquired methicillin-resistant <i>Staphylococcus aureus</i> expressing Panton-Valentine leukocidin
The Risks and Benefits of Performance Enhancing Substances: Perceptions of Physicians and Competitors
One Row Versus Two Row Arthroscopic Rotator Cuff Repair
Multiple Sclerosis Patients' Perception of Tysabri
Identification of Values Used by a Multi-Disciplinary Deep Brain Stimulation (DBS) Committee and its Members in the Decision Making Process
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
Heart Failure and AUDICOR Technology for Rapid Diagnosis and Initial Treatment: The HEARD-IT Trial
Do Quantitative ECG Measures Predict Postoperative Atrial Fibrillation after Isolated CABG?
Tissue LOXL1 in Female Pelvic Organ Prolapse
Prospective cost-effective analysis of sestambi and ultrasound as preoperative localizing studies for parathyroidectomy in patients with sporadic primary hyperparathyroidism
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
Prospective Evaluation of the Ability of Magnetic Resonance Spectroscopy (MRS) and Fluorodeoxyglucose Positron Emission Tomography (FDG-PET) to Differentiate Radionecrosis from Tumor Recurrence following Stereotactic Radiosurgery (SRS)
Connecting Breast Cancer and Thyroid Cancer
Influenza Vaccination and its Impact on T Cell Alloreactivity: Implications for Lung Transplant Patients
Testing a New Device for Determining Bone Strength
Diagnosing Mitochondrial Oxidative Phosphorylation Disorders in Patients with Autism

Human Herpesvirus-6 in Critically Ill Children
Development of the CCF SHOULDER Score
Defining clinically meaningful change in Attention-deficit hyperactivity disorder (ADHD)
Improvement in stereoacuity relative to gains in visual acuity following treatment for anisometropic amblyopia
Association of Socioeconomic Status with Outcomes in Coronary Artery Bypass Graft (CABG) Surgery
Comparative immune restoration in HIV-1 infected patients initiating either NNRTI or PI-based HAART regimens
Non-prescription analgesics and potential adverse events in the geriatric population: a cross-sectional comparison of Emergency Department patients and Internal Medicine outpatients
Health-Related Quality of Life in Brain Cancer Patients Treated with Temozolomide
R462Q, Environmental and Lifestyle Contributions to XMRV Transmission in Prostate Cancer Patients
Serum uric acid as a predictive factor of stroke severity

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Development and Validation of an Anatomically-Scored Patient Reported Knee Outcome Measure
The Use of Platelet Rich Plasma in Mandibular 3 rd Molar Extraction Socket
New radiation therapy technologies and a potential application to treatment of localized renal cell carcinoma in patients who are not candidates for surgical resection
Radiosurgical Ablation of Renal Tumors
Intraoperative Goal-Directed Fluid Management in Lean and Obese Patients
Response to Vitamin D Insufficiency Distinguishes Single Adenomas from Multigland Hyperplasia in Patients with Primary Hyperparathyroidism
Obesity and Inflammation
Emerging Techniques in Echocardiography: Implications of speckle tracking on the differentiation constrictive pericarditis from restrictive cardiomyopathy
Perioperative hyperglycemia and rate of surgical site infection after craniotomy
Endovascular Therapy versus open surgery for treatment of chronic distal aortic dissection
Increased Cardiovascular Risk and Altered Cardiac Biomarkers in Immunologically-Mediated Schizophrenia

Using Prophylaxis Plus Preemptive Therapy in D+/R – Solid Organ Transplant Recipients to Decrease Incidence of Cytomegalovirus-Related Morbidity and Ganciclovir Resistance
Surgical Management of Sinus Venosus Atrial Septal Defect with Partial Anomalous Pulmonary Venous Connection in Adults
Interventional Strategies for Ischemic Cardiomyopathy with Concomitant Functional Ischemic Mitral Regurgitation
Surgical Management of Patients with Ischemic Cardiomyopathy
Inflammation, statin use, obesity and recurrence of atrial fibrillation after Cardioversion
CNS Markers of Inflammation and Blood Brain Barrier Disruption in Psychotic Children
Establishing the relationship between lead exposure and asthma development: A cross-sectional
Plasmalogen Assay for the Early Detection of Ovarian Cancer Specificity
Infection-related inflammation and graft rejection in pediatric lung transplantation: A single-center retrospective case-control preliminary study
Descriptive Epidemiology of Latent Tuberculosis Infection among Healthcare Workers at the Cleveland Clinic
The Effect of Heart Failure Patient Education Interventions on Core Outcome Measures
Clinical Ocular Biomechanics in Keratoconus Patients
Prevalence of Vision Problems among 4-6 Year Olds in Cleveland
Optimization of MRI-based muscle atrophy and fatty infiltration assessments for Rotator Cuff Muscles
Effect of Co-Morbidity on Complications and Clinical Outcome After Primary Total Shoulder Arthroplasty for Treatment of Primary Osteoarthritis
The Utility of Plasma Free Fatty Acids in Risk Assessment of Sepsis in the Emergency Department
Evaluation of long-term outcomes following implantation of spinal cord stimulation Laminectomy
Inactivation of DNA repair enzyme MGMT in chemotherapeutic resistant glioblastoma multiforme through dosing variations in temozolomide schedules
Acute effect of nitric oxide on pulmonary insufficiency in congenital heart disease
The Value of Surgeon Experience on the Prevalence of Avoidable Thyroid and Parathyroid Reoperations
Hydroxyurea: possible prevention of silent cerebral infarct in sickle cell anemia