Northwestern Cardiovascular Young Investigators’ Forum

Research Presented and Affiliation Information
For the 2015 Young Investigators

In Vitro Characterization and In Vivo Feasibility of an In Situ Light-Activated Vascular Scaffold for Endovascular Therapy
Mazen Albaghdadi, MD, MS
Massachusetts General Hospital
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Contrast Media Differential: A Novel Method for the Assessment of Coronary Stenosis Compared With Fractional Flow Reserve Using Adenosine
Nikhil Ambulgekar, MD
St John Hospital and Medical Center
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Exercise Prevents Diastolic Dysfunction in a Female Model of Obesity Without Lowering Fat Mass by Reducing Cardiac Oxidative Stress and Fibrosis
Brian Bostick, MD, PhD
University of Missouri School of Medicine
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Drug-Eluting Stents Versus Bare-Metal Stents in Patients on Dialysis
Tara I. Chang, MD, MS
Stanford University School of Medicine
Stanford, CA

Rescue of Diabetic Cardiomyopathy via Cardiomyocyte-Restricted Silencing of FoxO1
Geoffrey W. Cho, MD
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Paradoxical Prolongation of QT Interval During Exercise in Patients With HCM
Raffaele Coppini, MD, PhD
University of Florence
Florence, Italy

Stratifying Left Ventricular Assist Device Infections to Prioritize Transplant Urgency
Todd Dardas, MD, MS
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Prognostic Significance of Positive Exercise Electrocardiography With Normal Stress Echocardiography
Melissa A. Daubert, MD
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Metabolite Profiles Predict Acute Kidney Injury and Mortality in Patients Undergoing Transcatheter Aortic Valve Replacement

Sammy Elmariah, MD, MPH
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Impact of Aortic Valve Replacement Versus Medical Management on Survival of Low Flow Low Gradient Severe Aortic Stenosis With Normal Ejection Fraction

Zaher Fanari, MD
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Influence of Diabetes Mellitus on Atherosclerotic Plaque Composition and Regression: Translational Insights From Murine Experimental and Clinical Imaging Studies

Jonathan E. Feig, MD, PhD
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Ranolazine Prevents Phenotype Development in a Mouse Model of Hypertrophic Cardiomyopathy

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Differences in Natriuretic Peptide Levels by Race/Ethnicity in the Multi-Ethnic Study of Atherosclerosis

Deepak K. Gupta, MD
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IL-10 Provides Cardiorenal Protection in Diabetic Mice With Myocardial Infarction via a Heme Oxygenase-1 Dependent Mechanism

Rajesh Gupta, MD
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Oral Anticoagulant Therapy Prescription in Patients With Atrial Fibrillation Across the Spectrum of Stroke Risk: Insights From the NCDR® PINNACLE Registry

Jonathan C. Hsu, MD, MAS
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Coronary Endothelial Dysfunction is Present in Patients With HIV and Zero Coronary Artery Calcium Score and is Related to the Degree of Local Epicardial Fat

Micaela Iantorno, MD
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A Rationally Designed Drug Screen Identifies an FDA-Approved Agent that Blocks Complement-Mediated Non-Canonical NF-κB in Endothelial Cells and Treats Transplant Arteriosclerosis

Daniel Jane-wit, MD, PhD
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Myocardial NF-κB Activation is Essential for Zebrafish Heart Regeneration

Ravi Karra, MD, MHS
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Hypertrophic Cardiomyopathy-Causing Mutations in Converter Domain of Human β-Cardiac Myosin Do Not Cause Gain of Function In Vitro

Masataka Kawana, MD
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Plasminogen Activator Inhibitor-1 is a Potential Mediator of Obesity and Obesity-Induced Vascular Dysfunction in Mouse and Man

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Self-DNA Fuels a Fatal STING- and IRF3-Dependent Innate Immune Response to Myocardial Infarction

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Distinct Lineages of Embryonic-Derived Macrophages Populate the Heart and Are Essential Mediators of Coronary Angiogenesis During Development of Heart Failure

Kory J. Lavine, MD, PhD
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Prognostic Value of 6-Year Change in High Sensitivity Cardiac Troponin-T for Risk of Heart Failure Hospitalization, Heart Failure Subtype, and Death
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2-Deoxy Adenosine Triphosphate Improves Contraction in a Genetic Model of Dilated Cardiomyopathy
Farid Moussavi-Harami, MD
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Human Knockout Project in a Cohort With a High Rate of Consanguinity
Pradeep Natarajan, MD, MMSc
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Impact of Baseline Fitness in Young Adulthood and Age-Related Fitness Change on Cardiac Structure and Function in Middle Age: The CARDIA Study
Ambarish Pandey, MD
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Sleep-Disordered Breathing Is Associated With Impaired Cardiac Sympathetic Innervation and Incrementally Predicts Prognosis in Heart Failure Patients
Stefania Paolillo, MD, PhD
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Stem-Cell Derived Cardiomyocytes Functional Phenotype Analysis by Atomic Force Microscopy
Martin Peš, MUDr, PhD
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Platelet mRNA as a Predictive Biomarker in Acute Myocardial Infarction
Filippo Pigazzani, MD
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Knowledge, Attitude and Provider Practices Towards the 2013 ACC/AHA Cholesterol Management Guidelines
Yashashwi Pokharel, MD, MSCR
Saint Luke’s Mid America Heart Institute
Kansas City, MO
Inaccuracy of Friedewald-Estimation at Clinically Relevant Very Low Levels of LDL-Cholesterol: The Very Large Database of Lipid Study 1C

Renato Quispe, MD
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The Epicardium Orchestrates an Immune Suppressive Response Following Myocardial Infarction to Attenuate Adverse Remodeling

Vimal Ramjee, MD
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High Frequency Driving Sites Are Anchored by Fibrotic Regions in Chronic Atrial Fibrillation

Ravi Ranjan, MD, PhD
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Dysregulation of the Non-Myocyte Microenvironment Promotes Rapid Load-Induced Heart Failure via Activation of the ERK Signaling Cascade

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Normal Weight-Central Obesity and Mortality Risk in Older Adults With Coronary Artery Disease

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High-Risk Atherosclerotic Plaques Identified by CT-Angiogram Can Predict Acute Myocardial Infarction

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The Origin of Cardiovascular Progenitors and the Dynamic Transcriptional Landscape that Determines Cardiovascular Fates at Single-Cell and Single-Molecule Resolution

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Critical Role of Angiopoietin-2 in Mediating Abnormal Angiogenesis and Gastrointestinal Bleeding in Patients With Continuous-Flow Left Ventricular Assist Devices
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Exome Sequencing, Functional Analysis and Super Resolution Imaging Identify a Pathogenic Role for SCNSA Mutations in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy
Anneline S.J.M. te Riele, MD
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Baseline Predictive Models to Identify High-Risk Patients for Cardiotoxicity Development: The Possible Role of Genetic Polymorphisms
Marco Triggiani, MD
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Global Electrical Heterogeneity Risk Score Predicts Sudden Cardiac Death in the General Population: The Atherosclerosis Risk in Communities (ARIC)
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Sphingosine 1-Phosphate Receptor-1 Regulates Ventricular Compaction and Fibrotic Response
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Safety of Intravenous Tissue Plasminogen Activator in Acute Ischemic Stroke Patients Taking Novel Oral Anticoagulants (NOACs)
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Exhaustion of CD8 T Cells in Patients Presenting With Acute Coronary Syndromes: A Novel Effect of Oxidized Lipoproteins
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