6th Annual

Department of Medicine Research Day

Celebrating Research Efforts Across the Department

Brought to you by the Department of Medicine Office of Research

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October 17, 2013
Cox Hall Ballroom
Schedule of Events

7:45 - 8:00 AM  Registration and Welcome

8:00 - 8:15 AM  Featured Research: Rebecca Levit, MD
Fellow, Cardiology
"Encapsulation of Mesenchymal Stem Cells to Treat Myocardial Ischemia"

8:15 - 9:15 AM  Oral Presentations
Moderator: Niels Engberding, MD
Assistant Professor, Cardiology

8:15 AM: "Anti-HIV Immunotherapy Delivered by AAV-Mediated Gene Transfer in Rhesus Macaques"
Ronald Trible (Infectious Diseases)

8:30 AM: "Efficacy of Multicomponent Behavioral Therapy, Alpha-adrenergic Antagonist, and Combined Therapy in Men with Nocturia: the BEDTiMe Trial"
Theodore Johnson II (General Medicine & Geriatrics)

8:45 AM: "High-fat Diet, Not Genetic Obesity, Induces Enteric Neuronal Loss, Delayed Colonic Motility and Altered miRNA-375 Expression"
Jai Eun Lee (Digestive Diseases)

9:00 AM: "A Composite Risk Score of Biomarkers of Inflammation, Thrombosis, and Cell Stress Pathways Significantly Predict Risk of Adverse Cardiovascular Outcomes"
Nima Ghasemzadeh (Cardiology)

9:15 - 10:00 AM  Poster Session I

10:00-10:15 AM  Featured Research: Colleen Kraft, MD
Assistant Professor, Infectious Diseases
"Begin with the End in Mind: the Fecal Transplantation Story at Emory"

Acknowledgements

Susmita Parashar, MD, Assistant Professor, Cardiology
Jeanie Park, MD, Assistant Professor, Nephrology
Molly Perkins, MD, Assistant Professor, General Medicine & Geriatrics
Jyothi Rengarajan, MD, Assistant Professor, Infectious Diseases
Amir Rezvan, MD, Instructor, Cardiology
Ignacio Sanz, MD, Professor and Division Director, Rheumatology/Immunology
Jonathan Sevransky, MD, Associate Professor, Pulmonology
Dawn Smiley, MD, MS, Associate Professor, Endocrinology
Shanthi Srinivasan, MD, Associate Professor, Digestive Diseases
Viranuj Sueblinvong, MD, Assistant Professor, Pulmonology
Roy Sutliff, PhD, Associate Professor, Pulmonology
W. Robert Taylor, MD, PhD, Professor and Division Director, Cardiology
David Tong, MD, Assistant Professor, Hospital Medicine
Camille Vaughan, MD, MS, Assistant Professor, General Medicine & Geriatrics
Susan Wall, MD, Professor, Nephrology
Martina Weber, PhD, Assistant Professor, Cardiology
M. Neale Weitzmann, PhD, Associate Professor, Endocrinology
Cherry Wongtrakool, MD, Assistant Professor, Pulmonology
Samantha Yeligar, PhD, Research Associate, Pulmonology

Abstract Reviewers

Arlene Chapman, MD, Professor, Nephrology
Arash Grakoui, PhD, Associate Professor, Infectious Diseases
Michael Koval, PhD, Associate Professor, Pulmonology
Jeffrey Lennox, MD, Professor, Infectious Diseases
Igho Ofotokun, MD, MS, Associate Professor, Infectious Diseases
Leslee Shaw, MD, Professor, Cardiology
Peter Thule, MD, Associate Professor, Endocrinology
Young-Sup Yoon, MD, PhD, Professor, Cardiology

Planning Committee

Alejandra San Martin, PhD, Assistant Professor, Cardiology
Vin Tangpricha, MD, PhD, Associate Professor, Endocrinology
Kathy K. Griendling, PhD, Professor, Cardiology
S. Russ Price, PhD, Professor, Nephrology
Ashley S. Freeman, Research Program Coordinator, DOM Administration

Special thanks to Karen Summers, Molly Dunham-Friel, Morgan Taylor, Kelly Russ, Lindsay King, Alia Kamel and Katie Davis for their help!
Poster Judges (Continued on next page)

George Beck, PhD, Associate Professor, Endocrinology
Kaiser Bijli, PhD, Associate, Pulmonology
Mitsi Blount, PhD, Assistant Professor, Nephrology
Henry Blumberg, MD, Professor, Infectious Diseases
Javed Butler, MD, Professor, Cardiology
Binu Chandrasekharan, PhD, Instructor, Digestive Diseases
Jennifer Christie, MD, Associate Professor, Digestive Diseases
Carlos del Rio, MD, Professor, Infectious Diseases
Neal Dickert, MD, Assistant Professor, Cardiology
Christina Drenkard, MD, Assistant Professor, Rheumatology
Katharina Echt, PhD, Assistant Professor, General Medicine & Geriatrics
Niels Engberding, MD, Assistant Professor, Cardiology
Monica Farley, MD, Professor and Interim Division Director, Infectious Diseases
Jennifer Gooch, MD, Associate Professor, Nephrology
Madeleine Hackney, PhD, Assistant Professor, General Medicine & Geriatrics
Ahsan Husain, MD, Professor, Cardiology
Octavian Ioachimescu, MD, Associate Professor, Pulmonology
Jesse Jacob, MD, Assistant Professor, Infectious Diseases
Theodore (Ted) Johnson II, MD, Professor and Division Director, General Medicine & Geriatrics; Interim Division Director, Hospital Medicine
Achilles Kalogeropoulos, MD, PhD, Assistant Professor, Cardiology
Russell Kempker, MD, Assistant Professor, Infectious Diseases
Jan-Michael Klapproth, MD, Associate Professor, Digestive Diseases
Robin Klein, MD, Assistant Professor, General Medicine & Geriatrics
Janet Klein, PhD, Associate Professor, Nephrology
Bernard Lassegue, PhD, Assistant Professor, Cardiology
F. Eun Lee, MD, Assistant Professor, Pulmonology
Kreton Mavromatis, MD, Assistant Professor, Cardiology
Aneesh Mehta, MD, Assistant Professor, Infectious Diseases
Arun Mohan, MD, MBA, Assistant Professor, Hospital Medicine
Alberto Moreno, MD, Assistant Professor, Infectious Diseases
Nawazish Naqvi, MD, Assistant Professor, Cardiology
Vandana Niyyar, MD, Associate Professor, Nephrology
Igho Ofotokun, MD, MS, Associate Professor, Infectious Diseases
Darin Olson, MD, Assistant Professor, Endocrinology
Charles O'Neill, MD, Professor, Nephrology
Roberto Pacifici, MD, Professor and Division Director, Endocrinology

Schedule of Events

10:15 - 11:15 AM Oral Presentations
Moderator: Titilayo Ilori
Instructor, Nephrology

10:15 AM: "Purification of Cardiomyocytes from Differentiating Pluripotent Stem Cells Using Molecular Beacons Targeting Cardiomyocyte-specific mRNA"
Kiwon Ban (Cardiology)

10:30 AM: "High Volume, Moderate Intensity Adapted Tango Benefits Mobility and Dual Tasking Ability in Parkinson's Disease"
Madeleine Hackney (General Medicine & Geriatrics)

10:45 AM: "Insulin and LPA Restore Intestinal Fluid Homeostasis in Type 1 Diabetes via Activation of NHE3"
Peyman He (Digestive Diseases)

11:00 AM: "EQUiPPED: Enhancing Quality of Prescribing Practices for Elderly Veterans Discharged from the VA Emergency Department"
Melissa Stevens (Hospital Medicine) - FAME awardee

11:15 - 11:45 AM Featured Research: Greg Martin, MD
Associate Professor, Pulmonology
"Outcomes Research in Sepsis: Four Decades of Changes"

11:45 AM Group photo

12:00 - 1:00 PM Lunch

1:00 - 2:00 PM Keynote Address: Max D. Cooper, MD
"What is the Origin of Our Immune System? (And Why Should We Care?)"
Professor, Pathology & Laboratory Medicine, Emory University School of Medicine; Georgia Research Alliance Eminent Scholar; Member, Emory Vaccine Center

Continued…
2:00 - 2:30 PM  Oral Presentations  
Moderator: George Beck, Jr., PhD  
Associate Professor, Endocrinology  
2:00 PM: "Cardiomyocytes do not Terminally Differentiate in the Neonatal Period"  
Nawazish Naqvi (Cardiology) - Seed Grant awardee  
2:15 PM: "Efficacy and Safety of High-Dose Vitamin D₃ For Treatment of Pulmonary Tuberculosis: A Randomized Controlled Trial"  
Thomas Ziegler (Endocrinology)  

2:30 - 3:15 PM  Poster Session II  

3:15 - 3:45 PM  Oral Presentations  
Moderator: George Beck, Jr., PhD  
Associate Professor, Endocrinology  
3:15 PM: "Hydrogen Peroxide Regulates Osteopontin Expression Through Activation of Transcriptional and Translational Pathways"  
Alicia Lyle (Cardiology)  
3:30 PM: "Influence of Age on Durability of Initial Combined Antiretroviral Therapy in the Established Antiretroviral Era"  
Minh Nguyen (Infectious Diseases)  

3:45 - 4:15 PM  Featured Research: Dean Jones, PhD  
Professor, Pulmonology  
"Oxidative Stress: Quest for the Redox Code"  
2013 Excellence in Research Accomplishment (Basic Science) Award winner  

4:15 PM  Research Accomplishments in the Department of Medicine; Presentation of Research Awards  
David S. Stephens, MD  
Interim Chair, Department of Medicine  
Vice President for Research, Woodruff Health Sciences Center  
Schwarzmann Distinguished Professor of Medicine  

83. Shin-Jeong Lee, Postdoctoral Fellow, Cardiology  
Therapeutic Neovascularization and Long-term Fate of Purified Endothelial Cells Derived from Human Pluripotent Stem Cells via a Clinically-compatible System  

84. Jennifer Luke, Internal Medicine Resident  
Complication from Biopsy of the Ampulla of Vater  

85. Stacie R. Schmidt, Assistant Professor, General Medicine & Geriatrics  
DOM FAME Grant Awardee  
Multidisciplinary Group Education Sessions Teaching Patient Self-Management Skills Improves Outcomes For Low-Income, Low-Literacy Patients in an Urban Setting  

86. Emily L. Blalock, Postdoctoral Fellow, Rheumatology/Immunology  
Understanding the Stimulatory Pathways Responsible for Naïve B Cell Activation in Systemic Lupus Erythematosus  

87. Lampros Papadimitriou, Postdoctoral Fellow, Cardiology  
Score-based versus Clinical Evaluation of Heart Failure Severity Among Patients Listed for Heart Transplantation  

88. Katherine M. Shaffer, Internal Medicine Resident  
Predictors of Nodal Metastases in Cholangiocarcinoma Using the National SEER Database  

89. Seyed Amirhossein Razavi, Data Analyst, Pulmonology  
Comparison of Circuit Survival between Two Different Continuous Renal Replacement Therapy Machines
73. Neal W. Dickert, Assistant Professor, Cardiology  
The Patients’ Experiences in Emergency Research-ProTECT Phase (PEER-ProTECT)

74. Chungwen Wei, Assistant Professor, Rheumatology/Immunology  
Gene Expression Profiling Analysis of Human B-Cell Subsets in Health and Systemic Lupus Erythematosus

75. Jau-Yi Li, Instructor, Endocrinology  
Ovariectomy Induces Short-Term Hemopoietic Stem Cell Expansion through T Cells

76. Gregory Burkman, Internal Medicine Resident  
“Administrative” Versus Clinically Adjudicated Heart Failure With Preserved Ejection Fraction Among Outpatients: A Preclinical Trial Registry

77. Anna E. Vandenberg, Postdoctoral Fellow, General Medicine & Geriatrics  
A Compelling Need for Bed Exit Prediction Tools: Voices from the Front Lines of a Skilled Nursing Facility

78. Mohamed Khayata, Postdoctoral Fellow, Cardiology  
Gender Differences in the Prognostic Value of Angina-Related Health Status in Patients with Suspected Coronary Artery Disease

79. Zaid Alnoah, Postdoctoral Fellow, Digestive Diseases  
Therapeutic ERCP in Children as Compared to Indication-Matched Adult Controls, A Four-Year Experience

80. Sulay P. Patel, Internal Medicine Resident  
Circulating Progenitor Cell Levels Are Higher in Patients with ST-Segment Elevation Myocardial Infarction Compared to Other Acute Coronary Syndrome Presentations

81. Anthony M. Gamboa, Postdoctoral Fellow, Digestive Diseases  
Mortality Outcomes with Endoscopic versus Surgical Therapy for Early Stage Esophageal Adenocarcinoma Using the SEER Database

82. Girum E. Mekonnen, Postdoctoral Fellow, Cardiology  
Increased Circulating Progenitor Cells in Women with Microvascular Coronary Dysfunction: Results from the NHLBI-Sponsored Women’s Ischemia Syndrome Evaluation - Coronary Vascular Dysfunction Study (WISE-CVD)

1. Jason M. Appelbaum, Internal Medicine Resident  
Frequent and Temporal Patterns of ICD Therapies in Patients with Left Ventricular Assist Devices

2. Shadi S. Yarandi, Internal Medicine Resident  
The Prevalence of Subclinical Iron Deficiency in Patients with Irritable Bowel Syndrome

3. Matthew B. Hudson, Postdoctoral Fellow, Nephrology  
OutFoxOing Skeletal Muscle Atrophy with miR-182

4. Heval Mohamed Kelli, Internal Medicine Resident  
Outcomes of Octogenerians after Cardiac Resynchronization Therapy

5. Shadi S. Yarandi, Internal Medicine Resident  
The Prevalence of Vitamin D Deficiency in Patients with Irritable Bowel Syndrome

6. Cong Zhang, Postdoctoral Fellow, Nephrology  
Resistance Exercise Prevents Muscle Wasting in Mice with Chronic Kidney Disease by Increasing microRNA-23

7. Jill A. Rahnert, Postdoctoral Fellow, Nephrology  
Phosphodiesterase Inhibition Increases PGC-1α in Muscle Cells

8. Bum-Yong Kang, Research Associate, Pulmonology  
Hemin-induced miR-27a Reduces PPARγ Expression in Sickle Cell Disease with Pulmonary Hypertension

9. Anita Kelkar, Internal Medicine Resident  
Echocardiography for Right Ventricular Failure Prediction After Implantation of Left Ventricular Assist Devices: Preliminary Results From a Prospective Cohort Study

10. Chris M. Ma, Medical Student  
Chronic Calcineurin Inhibition Impairs Both Recovery from Isoflurane Anesthesia and Visuospatial Learning Performance

11. Young-Mi Go, Assistant Professor, Pulmonology  
Integrated Redox Proteomics and Metabolomics To Identify Mechanisms of Cd Toxicity
12. **Sasha Vukelic**, Postdoctoral Fellow, Cardiology  
Relaxin Attenuates Angiotensin II-induced Proinflammatory Signaling in Vascular Smooth Muscle Cells

13. **Myra E. Woodworth-Hobbs**, Graduate Student, Nephrology  
Docosahexaenoic Acid Counteracts Palmitate-induced Proteolytic Signaling in Myotubes

14. **Jonathan H. Kim**, Postdoctoral Fellow, Cardiology  
Cardiac Remodeling and Hypertension in Elite Division I-A Football Players: A Longitudinal Pilot Study

15. **Frederic Rahbari-Oskou**, Assistant Professor, Nephrology  
The Melatonin in Nighttime Blood Pressure in African-Americans (MAP) Trials: Design and Baseline Characteristics

16. **Thor Tejada**, Postdoctoral Fellow, Cardiology  
Mast Cell Chymase: An Angiotensin II (Ang II)-Independent Therapeutic Target In The Post-Myocardial Infarction Heart

17. **Ameeta S. Kalokhe**, Assistant Professor, Infectious Diseases  
Measuring Domestic Violence among Married Women in India: Development of the Indian Family Violence & Control Scale

18. **David I. Brown**, Graduate Student, Cardiology  
Poldip2 Knockout Results in Perinatal Lethality and Reduced Cellular Growth of Mouse Embryonic Fibroblasts

19. **Kaiser M. Bijli**, Associate, Pulmonology  
PPARγ Depletion Promotes H2O2 Generation and Proliferation of Human Pulmonary Artery Smooth Muscle Cells via ERK1/2-NF-κB-Nox4 Pathway

20. **Bindu Chandrasekharan**, Research Associate, Digestive Diseases  
Enteric Neuropeptide Y (NPY) Promotes Colitis-associated Carcinoma by Enhancing Epithelial Cell Survival and Proliferation

21. **Shawn C. Elms**, Postdoctoral Fellow, Cardiology  
miRNA-mediated Regulation of Endothelial Gene Expression in a Mouse Model of Unidirectional and Oscillatory Shear Stress

63. **Kara L. Raphael**, Medical Student  
Pancreatic Insufficiency Secondary to Tobacco Exposure, Preliminary Results from the Prospective Controlled Cohort Study

64. **Jane S. Titterington**, Postdoctoral Fellow, Cardiology  
Encapsulation of Mesenchymal Stem Cells to Improve Stem Cell Therapy Following Myocardial Infarction in Rats

65. **Michael Koval**, Associate Professor, Pulmonology  
Impaired Airway Epithelial Barrier Function in Cystic Fibrosis-related Diabetes

66. **Elizabeth P. Held**, Medical Student  
Depressive Symptoms, Oxidative Stress, Inflammation, and Vascular Dysfunction

67. **Saira Adeel**, Postdoctoral Fellow, Endocrinology  
A Cost Analysis Study of Basal Bolus and Sliding Scale Insulin Regimens in General Surgery Patients with Type 2 Diabetes

68. **Catherine Marti**, Postdoctoral Fellow, Cardiology  
Anxiety Symptoms, Major Clinical Events, and Healthcare Resource Utilization in Outpatients with Heart Failure in The Atlanta Cardiomyopathy Consortium (TACC) Study

69. **Paul T. Reynolds**, Internal Medicine Resident  
Multi-Center Hybrid Push-Pull Endoscopic and Laparoscopic Full Thickness Resection for Minimally-Invasive Resection of Gastric Gastrointestinal Stromal Tumors (GIST)

70. **Kanwal Farooq**, Research Intern, Cardiology  
One-Year Mortality Among Patients With Heart Failure and Preserved Ejection Fraction at Presentation: Implications for Clinical Trials

71. **Kira L. Newman**, Graduate Student, Hospital Medicine  
Providing Antibiotic Cost Data Reduces High-Cost Antibiotic Prescribing

72. **Heval Mohamed Kelli**, Internal Medicine Resident  
Hospital Discharge Rates Due to Pulmonary Embolism in the State of Georgia
53. Thalita B. Abrahao, Postdoctoral Fellow, Cardiology
   Trafficking of Vascular Smooth Muscle Lipid Droplets Is a Redox-mediated Phenomenon

54. Bashar S. Staitieh, Postdoctoral Fellow, Pulmonology
   Alcohol-induced Oxidative Stress In Lung Fibroblasts Appears To Involve an Imbalance between Nrf2 and Thioredoxin-1 in the Nuclear Compartment

55. Sarawut Siwamogsatham, Postdoctoral Fellow, Cardiology
   Progression of Pulmonary Artery Systolic Pressures by Echocardiography Among Ambulatory Patients without Pulmonary Hypertension at Baseline

56. Sandra L. Jackson, Graduate Student, Endocrinology
   Glucose Challenge Test Screening for Diabetes and Dysglycemia in a High-Risk Primary Care Population

57. Laura M. Hansen, Postdoctoral Fellow, Cardiology
   The Role of the Receptor for Advanced Glycation Endproducts (RAGE) in Collateral Vessel Formation

58. Xian Fan, Assistant Professor, Pulmonology
   S-adenosylmethionine Improves the Oxidative Stress-Induced Lung Epithelial Barrier Dysfunction in HIV-1 Transgenic Rats

59. Francisco Pasquel, Postdoctoral Fellow, Endocrinology
   Safety and Efficacy of Sitagliptin Therapy for the Inpatient Management of General Medicine and Surgery Patients with Type 2 Diabetes: A Pilot, Randomized Controlled Study

60. Mitsi A. Blount, Assistant Professor, Nephrology
   Urea Transport in the Collecting Duct, Regulated by an Endothelin/Nitric Oxide Signaling Pathway, is Required for Sodium Reabsorption

61. Isabel Fernandez, Research Assistant, Cardiology
   TGF-β Mediates Focal Adhesion Maturation by a Smad/Nox4-dependent Mechanism that Involves Regulation of Hsp27 and Hic5

62. Farshad Forouzandeh, Postdoctoral Fellow, Cardiology
   Metformin Beyond Diabetes: Does Metformin Attenuate Atherosclerosis and Vascular Aging Independent of Glucose Level?
32. Emily J. Cartwright, Postdoctoral Fellow, Infectious Diseases
Healthcare Exposure as a Risk Factor for Hepatitis C Infection - An Analysis of Veterans with Documented Hepatitis C Seroconversion

33. Young-Doug Sohn, Postdoctoral Fellow, Cardiology
Induction of Pluripotency in Bone Marrow Mononuclear Cells via Polyketal Nanoparticle-mediated Delivery of Mature microRNAs

34. Lilin Lai, Research Associate, Infectious Diseases
Plasmablast and Monoclonal Antibody Response to Monovalent Influenza H3N2 Variant (H3N2v) Vaccine

35. Sophia A. Hussen, Assistant Professor, Infectious Diseases
HIV Testing Patterns among Black Men Who Have Sex with Men: A Qualitative Typology

36. H. Travis Ichikawa, Postdoctoral Fellow, Rheumatology/Immunology
SLE Flares are Characterized by Generalized Polyclonal Expansions of Antibody Secreting Cells without Preference for Autoimmune Responses

37. Cecile A. Delille, Assistant Professor, Infectious Diseases
Degree of Plasma Protein Binding Affects Central Nervous System Penetration of the HIV-1 Protease Inhibitors Atazanavir and Darunavir

38. Jennifer K. Frediani, Graduate Student, Endocrinology
Micronutrient Status of Pulmonary Tuberculosis Patients in Tbilisi, Georgia

39. Celeste Sarmiento, Research Specialist, Pulmonology
Characteristics and Outcomes of Severe Sepsis Patients with HIV-1 and Chronic Alcohol Abuse

40. Minh L. Nguyen, Assistant Professor, Infectious Diseases
HIV-associated Non Hodgkin’s Lymphoma in the Late Antiretroviral Era in a Southern Ryan-White–funded Urban Clinic

41. Ayman Tahhan, Internal Medicine Resident
Trends in Cardiovascular Clinical Trials

42. Mary R. Galinski, Professor, Infectious Diseases
The Malaria Host-Pathogen Interaction Center (MaHPIC): Systems Biology from the Bench to Non-Human Primates and Humans

43. Leslie Anne V. Cassidy, Medical Student
Clinical Phenotypes and Disease Burden Of Discoid Lupus Erythematosus in a Sample of Systemic Lupus Erythematosus Patients in the Southeastern United States

44. Frances Eun-Hyung Lee, Assistant Professor, Pulmonology
A Novel Method for Diagnosis of Acute Influenza Viral Infection using Newly Generated Antibodies from Circulating Antibody Secreting Cells: Implications for H7N9 Influenza Virus

45. Christopher M. Tipton, Postdoctoral Fellow, Rheumatology/Immunology
Plasma Cells in Acute SLE Flares Are Characterized by a Highly Diversified Repertoire Accentuated by Clonal Expansions of VH4-34 Antibodies

46. Sadia Nasir, Postdoctoral Fellow, Cardiology
Inotrope Use and Outcomes in Hospitalized Heart Failure: Impact of Etiology, Systolic Blood Pressure, and Cardiac Output – Insights from ESCAPE

47. Peter M. Thulé, Professor, Endocrinology
Combined Mononuclear Phagocyte System Depletion and Blockade Permits Functional Adenoviral Hepatic Insulin Gene Transfer in Pigs

48. Saumeth Cardona, Postdoctoral Fellow, Endocrinology
The Impact of Perioperative Hyperglycemia in Patients With and Without Diabetes Undergoing Coronary Artery Bypass Surgery: A Prospective Multicenter Observational Study

49. Thomas M. Runge, Internal Medicine Resident
Indeterminate Common Bile Duct Strictures with “Atypical Cells” on Cytologic Brushing: Long-term Outcomes

50. Christa Caesar, Graduate Student, Cardiology
Mechanical Strain-induced Osteopontin Expression in the Aorta

51. Charity G. Duran, Postdoctoral Fellow, Cardiology
Role of βPIX in Redox-dependent Lamellipodia Formation During PDGF-induced Migration in VSMC

52. Samantha M. Yeligar, Research Associate, Pulmonology
Pioglitazone Attenuates Alcohol-induced Alveolar Macrophage Oxidative Stress and Dysfunction by Up-regulating Nox4-associated microRNAs