

24TH ANNUAL
Department of Internal Medicine

RESEARCH SYMPOSIUM

MAY 19 - 20, 2016

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Click on the abstract name or presenter to be directed to the abstract



KEYNOTE SPEAKER



Peter K. Gregersen, MD

*Director, Center for Genomics & Human Genetics
The Feinstein Institute for Medical Research Professor
Molecular Medicine, Hofstra Northwell School of
Medicine*

Peter K. Gregersen received his MD from Columbia University College of Physicians and Surgeons in 1976, and trained in internal medicine and rheumatology. During the 1980's, Dr. Gregersen cloned and sequenced the major HLA class II alleles associated with rheumatoid arthritis (RA) and first described the "shared epitope" hypothesis to explain the complex pattern of HLA associations with RA. In the 1990's he founded the North American Rheumatoid Arthritis Consortium (NARAC) which has made a major contribution to identifying risk alleles associated with rheumatoid arthritis.

Dr. Gregersen has collaborated extensively on genetic studies of many other human autoimmune disorders, and is also pursuing genetic studies of several neurocognitive traits including absolute pitch and synesthesia. In 2007 Dr. Gregersen was the recipient of the Klemperer Medal from New York Academy of Medicine as well as the Distinguished Basic Investigator Award from the American College of Rheumatology. He was elected to membership in the Association of American Physicians in 2009. He was awarded the Crafoord Prize from the Royal Swedish Academy of Sciences in 2013. Dr. Gregersen has recently developed an interest in the genetics and biology of endometriosis, and is now the lead investigator for the Research Out Smarts Endometriosis (ROSE) project.

THURSDAY, MAY 19, 2016

Towsley Lobby

1:00-1:30 pm Hors d'oeuvres Buffet
1:30-5:00 pm Poster Presentations (see below)

Resident Research Symposium

POSTER PRESENTATIONS - Towsley Lobby, 1:30-5:00 pm

Poster #	Abstract Title	Presenter
R-1	Treatment of <i>Clostridium Difficile</i> Carriage in Hematopoietic Stem Cell Transplant recipients	Owen Albin
R-2	Alternative Interventions in the Management of Atrial Fibrillation	Mahmoud Altawil
R-3	Sepsis Trial of Early Physical Therapy Outside the ICU (Step To It)	Mansoor Arain
R-4	A Resident Initiated Project to Improve Appropriate Telemetry Usage at an Academic Hospital	Muyiwa Awoniyi
R-5	Understanding the Relationship Between Procalcitonin (PCT) and Bacterial Infection and Other Outcomes Before Liver Transplantation	Robert Bagwell
R-6	A Comparison of Occlusion Rates in Peripherally Inserted Central Catheters and Other Intravenous Devices: A Systematic Review and Meta-Analysis	Peter Cai
R-7	Identification of Patient Characteristics Associated with Rapid Clinical Response in Hospitalized Patients with Cellulitis	Amy Chang
R-8	Predictors of Failure of 5-Aminosalicylic Acid Therapy in New-Onset Mild to Moderate Ulcerative Colitis	Tristan Feierabend
R-9	How Physicians Manage Newly Diagnosed Patients with Type 2 Diabetes in the First Six Months After Diagnosis	Jay Flynn
R-10	Can Heart Disease be Predicted in Young Survivors of Osteosarcoma Using CT Morphomics and/or Coronary Artery Calcium Scores?	Mark Foster
R-11	Medical vs. Interventional Treatment of Intra-Abdominal Abscess in patients with Crohn's Disease	Emily Graham
R-12	Artificial Sweeteners: A Systematic Review and Primer for Gastroenterologists	Amit Gupta
R-13	Predicting Mortality in Ventricular Assist Device Recipients Using Morphometrics	Seth Hale
R-14	Trends in Anticoagulant Utilization: Data from the Michigan Anticoagulation Quality Improvement Initiative	Zachary Hale

THURSDAY, MAY 19, 2016

Resident Research Symposium

POSTER PRESENTATIONS - Towsley Lobby, 1:30-5:00 pm

Poster #	Abstract Title	Presenter
R-15	Determining Baseline Left Ventricular Global Longitudinal Strain Measurements Using a New State of the Art Echocardiography System	Christopher Hanson
R-16	Clinical Outcomes of Patients with Acute Erythroleukemia in the Era of Hypomethylating Agents	Richard King
R-17	Incidence of Post Splenectomy Pulmonary Hypertension	David Macari
R-18	Heart Rate Variability Adds to Clinical Factors in Identifying High-Risk Older African Americans at Increased Risk of Mortality: The Cardiovascular Health Study	Akshar Patel
R-19	Systematic Review of Duration of Antibiotic Therapy for Severe Infection	Stephanie Royer
R-20	Aspirin Reactions by Dose and Silent Reactions During Aspirin Desensitization	Chase Schuler
R-21	Plate Waste in the National School Lunch Program: Root Cause Analysis and the Impact of Scheduling Recess Before Lunch	Garth Strohbehn
R-22	Examining the July Effect: A National Survey of Academic Leaders in Medicine	Jessica Voit

FRIDAY, MAY 20, 2016

Ford Lobby

9:30 am **CONTINENTAL BREAKFAST /
PLENARY POSTER SESSION**

Ford Auditorium

10:00 **WELCOME AND OPENING REMARKS**

*John Carethers, MD
Benjamin Margolis, MD*

10:05 **PLENARY SPEAKER SESSION**

Transcription Factor 21 Promotes the Expression of IL-6 and Genes Related to Extracellular Matrix Remodeling in Visceral Adipose-Derived Stem Cells

Takeshi Akama, PhD, Endocrinology

IRE1 α -Xbp1 pathway mediated adaptation to ER-stress contributes to N-rasG12D induced pre-leukemic hematopoietic stem cell expansion

Lu Liu, PhD, Hematology/Oncology

Mutated KCNJ5 activates the acute and chronic regulatory steps in aldosterone production

Namita Hattangady, PhD, Endocrinology

Antiphospholipid-dependent venous thrombosis requires neutrophils and NETs

He Meng, MD, PhD, Rheumatology

Identification and Genomic Characterization of a Novel Pseudomonas Species (Pseudomonas galenii sp. novus) Associated With Human Lung Disease

Brittan Scales, PhD, Pulmonary

Impact of Vaccination on Morbidity and Mortality in Adults Hospitalized with Influenza 2014-2015

Timothy Kaselitz, MD, Resident

Hospital Readmissions for Recurrent Sepsis: New or Recurrent Infection?

Kimberley M. DeMerle, MD, Resident

Identifying Causes of Antiretroviral Treatment Failure in HIV Infected Patients

Julie M. Steinbrink, MD, Resident

In Vivo Persistence of CCR5-Tropic HIV in Long-Lived CD34+ Hematopoietic Progenitors

Nadia Sebastian, Infectious Disease

12:00 pm **KEYNOTE ADDRESS - GRAND ROUNDS**

Autoimmunity: Linking Genetic Variation to Endophenotypes

Peter K. Gregersen, MD

Director, Center for Genomics & Human Genetics
The Feinstein Institute for Medical Research Professor
Molecular Medicine, Hofstra Northwell School of Medicine

Towsley Lobby

1:00 **LUNCH / POSTER SESSION**

FRIDAY, MAY 20, 2016

Towsley Dining Room / Sheldon Auditorium

2:30 SENIOR RESIDENT ORAL COMMUNICATIONS

Towsley Dining Room

Renal Function in Atrial Fibrillation Patients Switched from Warfarin to a Direct Oral Anticoagulant

Anum Minhas, Sr. Medical Resident

Medicare Hospital Readmission Penalties: As Important as Life Itself?

Ahmad Abdul-Aziz, Sr. Medical Resident

Codon Usage Bias and the Molecular Bases Underlying Kras Mutation Frequencies in Colorectal Cancer

Dennis Hsu, Sr. Medical Resident

Comorbid Conditions in Patients with Castration Resistant Prostate Cancer (CRPC) Receiving Abiraterone

Phoebe Cheng, Sr. Medical Resident

Risk Factors for *Clostridium Difficile* Infection in Patients with HIV

Hannah Imlay, Sr. Medical Resident

Readmission Characteristics Among Complex Care Management Program Patients

Quang Pham, Sr. Medical Resident

The Predictive Ability of Various Risk Scores for Bleeding in Warfarin-Treated VTE Patients

Jared Wilkinson, Sr. Medical Resident

Sheldon Auditorium

Same-Ti2r2 Predicts Quality of Anticoagulation in Patients with Venous Thromboembolism: The Maq2 Experience

Akash Kataruka, Sr. Medical Resident

FDG Pet/Ct Imaging for Prognosis of Metastatic Non-Iodine Avid Differentiated Thyroid Cancer

Poomi Manohar, Sr. Medical Resident

Long-Term Follow-Up of Individuals with Metabolic Syndrome after Completion of a Lifestyle Intervention Program

Megan Shetty, Sr. Medical Resident

The Impact of Chemotherapy and Radiation on Cd4 Counts in Patients with HIV And Non-Aids Defining Malignancies

Peter Bosch, Sr. Medical Resident

Primary Care Physician Perspectives on Hepatitis C Management in the Era of Direct-Acting Antiviral Therapy

Mary Thomson, Sr. Medical Resident

QI Initiative to Screen, Diagnose, Treat and Prevent Pediatric ICU Delirium

Jeffrey Weatherhead, Sr. Medical Resident

5:00 RESEARCH SYMPOSIUM ADJOURNS

Plenary Poster Session - Ford Lobby, 9:30 am-12:00 pm

Poster #	Plenary Poster Session	Presenter
P-1	Shared and endorgan specific transcriptional networks in skin versus kidney biopsies in systemic lupus	<i>Celine C. Berthier PhD Nephrology</i>
P-2	Absence of Genetic Molecular Alterations Cannot be Used to Guide Pancreatic Cyst Surveillance	<i>Kimberly D. Christensen MD Resident</i>
P-3	Identification of a Putative ER Cargo Receptor for PCSK9 Secretion by a CRISPR Whole Genome Screen	<i>Brian Emmer MD PhD General Medicine</i>
P-4	Construction of a murine TNF α - producing <i>Cryptococcus neoformans</i> strain for immunomodulatory and preventative therapy in cryptococcal infections.	<i>Zhenzong Fa Pulmonary</i>
P-5	Impact of an Electronic Medical Record Alert on Increase in Hepatitis C virus Screening Rates for Baby Boomers in the Primary Care Setting	<i>Monica Konerman MD MSc Gastroenterology</i>
P-6	Likelihood of Achieving Normal Weight 5 Years After Gastric Bypass Surgery	<i>Corey Lager MD Endocrinology</i>
P-7	Active Smoking is Associated with Increased Eosinophils in Bronchoalveolar Lavage but Not in Sputum or Peripheral Blood: Spiromics Immunophenotyping Sub-Study	<i>Sara X. Li MD Resident</i>
P-8	The Changing Characteristics of Atrial Fibrillation Patients Treated with Warfarin	<i>Andrew Putnam MD Resident</i>
P-9	Novel panoramic atrial endocardial optical mapping reveals the role of arrhythmogenic superior vena cava in cholinergic atrial fibrillation	<i>Rafael Ramirez PhD Cardiology</i>
P-10	Decreased Expression of the Cell Cycle Inhibitor CDKN2B Promotes Pulmonary Fibrosis Through Increased Myofibroblast Differentiation Rather Than Increased Proliferation	<i>Anne Scruggs BS MPH Pulmonary</i>
P-11	NLRP6 limits inflammation in mouse colon by regulating microbiota	<i>Sergey Seregin PhD Hematology/Oncology</i>
P-12	Dysregulation of TGF- β Signaling: The Role of Fucosyltransferase-1 in Scleroderma and Bleomycin-Induced Fibrosis	<i>William Stinson Rheumatology</i>

Poster Session - Towsley Lobby, 1:00-2:30 pm

Poster #	Poster Title	Presenter
1	Risk of End-Stage Renal Disease in the United States	<i>Patrick Albertus MPH Nephrology</i>
2	A 3D Engineered Model of Human Induced Pluripotent Stem Cell Derived Cardiomyocytes Reveals Functional Characteristics of β -Myosin Heavy Chain Mutation Mediated Hypertrophic Cardiomyopathy	<i>Katherine Campbell PhD Cardiology</i>
3	The Effects of Depression on BRIDGE Patients	<i>Jacob Carolan BS Cardiology</i>
4	A Novel ALDH1A Selective Inhibitor Induces Necroptosis in Ovarian Cancer Stem-Like cells	<i>Ilana ChefetzMenaker PhD Hematology/Oncology</i>
5	Inefficient preproinsulin translocation upregulates KCNK9 expression and causes beta cell dysfunction and diabetes	<i>Wei Chen PhD Endocrinology</i>
6	Natural killer cells preferentially kill metastatic lung tumor cells	<i>Peter Chockley PhD candidate Pulmonary</i>
7	Fibroblastic niches prime T cell alloimmunity through delta-like notch ligands	<i>Jooho Chung BA Hematology/Oncology</i>
8	Tri-iodothyronine De Novo Synthesis Within Thyroglobulin	<i>Cintia Citterio PhD Endocrinology</i>
9	Centromere Instability in Cancer	<i>Rafael Contreras- Galindo PhD Infectious Disease</i>
10	School Lunch is Associated with Increased Cardiovascular Risk Among Middle-School Children	<i>Rosa deVisser MS Cardiology</i>
11	Aminopeptidase N/CD13 plays an important role in monocyte migration in vitro and in vivo and signals through GPCR, Erk1/2, Jnk, Src, and NF- κ B.	<i>Yuxuan Du PhD Rheumatology</i>
12	Cryptococcal Trehalose Synthesis Pathway Genes Have a Differential Impact on Pulmonary Control of Cryptococcus neoformans	<i>Xueli Gao PHD Pulmonary</i>
13	Ideal Timeframe for Post-Discharge Follow-Up Appointment in ACS and CHF BRIDGE Patients	<i>Matthew Geiger Cardiology</i>
14	Interplay of Autophagy Activity and ER-stress Response in Aging Adipose Tissue Inflammation	<i>Amiya Ghosh PhD Geriatric Medicine</i>
15	Cardiac myosin binding protein C mutants interact with Hsp70-family chaperones and disrupt protein quality control.	<i>Amelia Glazier BS Cardiology</i>
16	Diagnostic Delays in Type B Dissections	<i>Thomas Goslinga BS Cardiology</i>

DEPARTMENT OF INTERNAL MEDICINE
24TH ANNUAL RESEARCH SYMPOSIUM

Poster Session - Towsley Lobby, 1:00-2:30 pm

Poster #	Poster Title	Presenter
17	Differences in Presenting Symptoms of Fibromuscular Dysplasia Patients with Family History of Fibromuscular Dysplasia, Arterial Aneurysm, Dissection, or Sudden Death: A Report from the United States Registry of Fibromuscular Dysplasia	<i>Xiaokui Gu MS MA Cardiology</i>
18	Analysis of Intracranial Aneurysms in Female Patients with Fibromuscular Dysplasia	<i>Steven Heidt BS Cardiology</i>
19	Structural and functional analysis of 1-O-Acylceramide synthase (lysosomal phospholipase A2)	<i>Vania Hinkovska-Galcheva PhD Nephrology</i>
20	CRISPR/Cas9 Genome Editing Pipeline for Mice and Rats	<i>Elizabeth Hughes MS MMG</i>
21	Type I Collagen Signaling Regulates Fibroblast Activation, Proliferation, and Apoptosis	<i>Shijing Jia MD Pulmonary</i>
22	Hyperactive Nras and Dose Reduction of Tet2 Collaborate to Dys-Regulate Hematopoietic Stem Cells and Promote Leukemogenesis	<i>Xi Jin PhD Hematology/Oncology</i>
23	An intervention to increase at risk patients' access to geriatric and palliative care services: integrated hospitalist and specialist care rounds	<i>Rafina Khateeb MD General Medicine</i>
24	Are Antimicrobial Peripherally Inserted Central Catheters Associated with Reduction in Central Line-Associated Bloodstream Infection? A Systematic Review and Meta-Analysis	<i>Rachel Kramer BS General Medicine</i>
25	Personal m-Health System for the Rapid and Automated Detection of Atrial Fibrillation	<i>Grant Kruger PhD Cardiology</i>
26	Inhibition of cholesterol esterification by ATR-101 as a therapeutic approach to the treatment of adrenal cancer	<i>Christopher LaPensee PhD Endocrinology</i>
27	Marriage May Hold the Key to Lower Readmission Rates	<i>Katherine Larin BS Cardiology</i>
28	Transcription factor EB inhibits endothelial cell inflammation and atherosclerosis	<i>Haocheng Lu Cardiology</i>
29	Prenatal methyl-donor supplemented diet increases endoplasmic reticulum stress and inflammation in adipose tissue CD11b+ cells in F1 mice	<i>Theresa Mau PhD Candidate Geriatric Medicine</i>
30	Neutrophil elastase inhibition protects against lupus and antiphospholipid syndrome in vivo	<i>Levi Mazza BS Rheumatology</i>

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Poster Session - Towsley Lobby, 1:00-2:30 pm

Poster #	Poster Title	Presenter
31	Deficient cMyBP-C protein expression during cardiomyocyte differentiation underlies human hypertrophic cardiomyopathy cellular phenotypes in disease specific human ES cell derived cardiomyocytes	<i>Andre Monteiro da Rocha DVM, PhD Cardiology</i>
32	Inflammation of the CNS during disseminated Cryptococcus neoformans infection	<i>Lori Neal PhD Pulmonary</i>
33	Evidence for Citrullinated Inhibitor of DNA Binding-1 as a Novel Autoantigen Candidate in Rheumatoid Arthritis	<i>Ray Ohara BS Rheumatology</i>
34	Demographic Differences in the Interventional Therapy of Acute Aortic Dissection	<i>Uchenna Okoro BS Cardiology</i>
35	ATG5 Dependent Autophagy Uncouples T cell Functions and Modulates Experimental Graft-Versus Host Disease	<i>Katherine Oravec-Wilson MS Hematology/Oncology</i>
36	Ultrasensitive Mutation Detection Defines Aberrant Multiclonal Hematopoiesis in Acute Myelogenous Leukemia in Remission and Predicts Relapse From Rare Cells Genomically Resembling Leukemic Blasts	<i>Brian Parkin MD Hematology/Oncology</i>
37	Influence of Depression on Asthma Outcomes in Older Adults: National Health and Nutrition Examination Survey (NHANES)	<i>Pooja Patel MD Allergy</i>
38	Inhibition of Forkhead Box Protein M1 Activity: A Novel Molecular Approach to the Treatment of Idiopathic Pulmonary Fibrosis	<i>Loka Raghu Kumar Penke PhD Pulmonary</i>
39	Milestones for the Final Mile: Interspecialty Distinctions in Primary Palliative Care Skills Training	<i>Chithra Perumalswami MD Geriatric Medicine</i>
40	Head and Neck Pain in Patients Presenting with Acute Aortic Dissection	<i>Stephen Philip BS Cardiology</i>
41	Effectiveness of the Aortic Dissection Detection Risk Score in Diagnosing Low-Risk Patients	<i>Anna Poteraj Cardiology</i>
42	Deubiquitinase Usp9x controls NRAS levels and tumorigenicity through regulation of the Ets-1 transcription factor	<i>Harish Potu PhD Hematology/Oncology</i>
43	Ablation of two major phosphorylation sites in the cardiac ryanodine receptor results in atrial fibrillation associated to calcium abnormalities and altered electrophysiology	<i>Roberto Ramos-Mondragon PhD Cardiology</i>
44	Influence of Parental Education on Nutritional and Lifestyle Choices of Project Healthy Schools Students	<i>Ryan Rogers Cardiology</i>
45	Inter-relationships between regulatory T cells, effector T cells, the PD-1 signaling pathway, and immunomodulatory lung dendritic cells in mice with persistent cryptococcal lung infection	<i>Jonathan Roussey PhD Pulmonary</i>
46	Panoramic Optical Mapping of the Sheep Atria Reveals Rotor Dynamics and Frequency Stabilization During Atrial Fibrillation Initiation.	<i>Oscar Salvador Montanes MD Cardiology</i>

DEPARTMENT OF INTERNAL MEDICINE
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Poster Session - Towsley Lobby, 1:00-2:30 pm

Poster #	Poster Title	Presenter
47	Host-specific Fecal Microbiota Transplantation is More Effective in Treating Recurrent <i>Clostridium difficile</i> Infection in a Murine Model	Anna Seekatz PhD <i>Infectious Disease</i>
48	Urinary EGF is associated with interstitial fibrosis and tubular atrophy in proteinuric patients	Michelle Smith MS <i>Nephrology</i>
49	A Systematic Review of Hydrogen Breath Testing as a Predictor of Bowel Preparation Quality	Arjun Sondhi MD <i>General Medicine</i>
50	Alveolar macrophage secretion of suppressor of cytokine signaling 3 is dysregulated in a mouse model of lung cancer	Jennifer Speth PhD <i>Pulmonary</i>
51	Lupus Keratinocytes are primed by an autocrine type I interferon loop to robustly secrete IL-6.	Jasmine Stannard MD <i>Rheumatology</i>
52	Does nicotinamide adenine dinucleotide phosphate oxidase 4 contribute to human heart failure progression?	Mark Stevenson PhD <i>Cardiology</i>
53	Truncating MYBPC3 Mutations Causative for Hypertrophic Cardiomyopathy Exhibit Reduced MYBPC3 Protein Abundance in Genome-Engineered Stem Cell Cardiomyocytes without Inducing Acute Sarcomere Disarray	Vi Tang BS <i>Cardiology</i>
54	Autocrine Interleukin-10-Mediated Immune Modulation of CD11b+ Dendritic Cells in Mice with Persistent Cryptococcal Lung Infection	Seagal Teitz-Tennenbaum MD <i>Pulmonary</i>
55	Sarcolemma Wounding Activates Dynamin Dependent Endocytosis in Striated Muscle	Molly Thorson PhD <i>MMG</i>
56	Effect of Particulate Matter 2.5 from Beijing, China on the Expression of Asthma-Related Genes in Bronchial Epithelial Cells	Priya Tripathi PhD <i>Pulmonary</i>
57	Inflammation-driven MSH3 Nuclear-to-Cytosol Shift Demonstrates MSH3 is Protein-bound in the Cytoplasm, and Influenced by Protein Modification and Structural Polymorphism	Stephanie Tseng-Rogenski PhD <i>Gastroenterology</i>
58	Targeting B-cells and their exosomes in the treatment of allergic asthma	Luciën vanderVlugt PhD <i>Rheumatology</i>
59	Does Early Feeding Reduce Length of Hospital Stay in Acute Pancreatitis? A Systematic Review and Meta-Analysis	Valerie Vaughn MD <i>General Medicine</i>
60	Challenging dogma: Lupus nephritis flares are independent of type I interferon signaling	Sonya Wolf BS <i>Rheumatology</i>

Poster Session - Towsley Lobby, 1:00-2:30 pm

Poster #	Poster Title	Presenter
61	Dual roles of scavenger receptor MARCO in innate versus adaptive immune responses during <i>Cryptococcus neoformans</i> infection	<i>Jintao Xu PhD Pulmonary</i>
62	Ablation of Paroxysmal Atrial Fibrillation Using A 2nd Generation Cryoballoon or Contact-Force Sensing Radiofrequency Ablation Catheter	<i>Miki Yokokawa MD Cardiology</i>
63	Screening for Pulmonary Arterial Hypertension in Systemic Sclerosis: Comparison of the Predictive Accuracy of Various Algorithms	<i>Amber Young MD Rheumatology</i>
64	Benzamide histone deacetylase inhibitors synergize with bryostatin-1 to potently activate latent viral replication	<i>Thomas Zaikos Infectious Disease</i>