Teaching the future leaders in medicine!
Tuesday 12-1p (LKSC), followed by lunch or coffee with external speaker
Thursday 12:30-1:30p (SIM1)
3 Credits
Winter 2016

The focus of MED223 is to fine tune critical thinking skills by analyzing original publications and understand the current complexities of the cardiovascular and pulmonary system. Students will attend a lecture series presented by prominent external speakers on Tuesday’s and learn new approaches and medical advances from Stanford faculty on Thursday’s.

Winter 2016 - Internal Speakers

Christopher Almond, MD       Assistant Professor of Pediatrics (Cardiology), Lucile Packard Children’s Hospital
Marcia L. Stefanick, Ph.D.   Professor (Research) of Medicine (Stanford Prevention Research Center) and of Obstetrics & Gynecology
James Spudich PhD           Douglass M. and Nola Leishman Professor of Cardiovascular Disease
Thomas Quertermous, MD      Professor | Chief, Division of Cardiovascular Medicine
Cornelia Weyand, MD         Professor | Chief, Division of Immunology and Rheumatology
Stanley G. Rockson, MD       Professor of Lymphatic Research and Medicine
Joseph C. Wu, MD PhD        Professor of Medicine (Cardiovascular) and of Radiology
Joshua W. Knowles, MD       Assistant Professor of Medicine (Cardiovascular Medicine)
Edda Spiekerkoetter, MD      Assistant Professor of Medicine (Pulmonary and Critical Care Medicine)
Christopher Almond, MD  
Assistant Professor of Pediatrics  
(Cardiology), Lucile Packard Children’s Hospital

My clinical focuses are pediatric cardiology, heart failure, ventricular assist device and anticoagulation

Education & Training  
Board Certification: Pediatrics, American Board of Pediatrics  
Fellowship: Boston Children’s Hospital  
Residency: Boston Children’s Hospital (Combined Residency in Pediatrics)

James Spudich, PhD  
Douglass M. and Nola Leishman Professor of Cardiovascular Disease

My research focuses on chronic disease prevention (particularly, heart disease, breast cancer, osteoporosis, and dementia) in both women and men. Our work on the effects of menopausal hormones on cardiovascular and other health outcomes in mostly healthy postmenopausal women (in the Womens Health Initiative, WHI), in women with established heart disease, (the Heart and Estrogen-progesterone Replacement Study, HERS), and in peri-menopausal and early post-menopausal women (the Postmenopausal Estrogen and Progestrone Interventions, PEPI) trials has been widely disseminated both nationally and internationally.

Education & Training:  
PhD, Stanford University, Physiology  
BA, University of Pennsylvania, Biology

Marcia L. Stefanick, Ph.D.  
Professor (Research) of Medicine (Stanford Prevention Research Center) and of Obstetrics & Gynecology

Education & Training:  
B.S., University of Illinois, Chemistry (1963)  
Ph.D., Stanford University, Biochemistry (1968)  
Postdoctoral, Stanford University, Genetics (1969)  
Postdoctoral, Cambridge University, MRC LMB, Structural Biology (1971)

The general research interest of my laboratory is the molecular basis of cell motility. We have had three specific research interests, the molecular basis of energy transduction that leads to ATP-driven myosin movement on actin, the biochemical basis of the regulation of actin and myosin interaction and their assembly states, and the roles these proteins play in vivo, in cell movement and changes in cell shape.
Education & Training
Residency: Brigham and Women's Hospital Harvard Medical School (1977) MA
Internship: Brigham and Women's Hospital Harvard Medical School (1976) MA
Board Certification: Cardiovascular Disease, American Board of Internal Medicine
Fellowship: Massachusetts General Hospital
Medical Education: Duke University Medical Center

Areas of research include: (1) Biomarker identification in lymphatic vascular disease
(2) Drug therapy to reverse lymphatic disease - animal model and pilot human studies
(3) Lymphangiogenesis in Acute and Chronic Experimental Lymphedema
(4) Lymphangiogenesis in Lymphatic Insufficiency: Lymphatic Endothelial and Inflammatory RNA Expression Patterns

Stan Rockson, MD
Professor of Lymphatic Research and Medicine

Joshua W. Knowles, MD PhD
Assistant Professor (Cardiovascular Medicine)

Education & Training:
Fellowship: Stanford University School of Medicine
Residency: Stanford University School of Medicine
Board Certification: Cardiovascular Disease, American Board of Internal Medicine
Medical Education: University of North Carolina - Chapel Hill
PhD, University of North Carolina, Chapel Hill

The overall theme of my work is to understand the genetic basis of complex cardiovascular diseases such as coronary disease and insulin resistance. Currently, I am involved in genome wide association (GWA) studies of coronary disease through the NIH-funded ADVANCE study and of insulin resistance through the international GENESIS project. After using the GWA approach to discover and validate interesting candidate genes, I hope to explore the biology underlying these genes and pathways using cell culture and in vivo model systems. I am also using iPSC technology (induced pluripotent stem cells) to develop model systems for the study of insulin resistance through the NIH-funded GENESiPS project.

Feb. 4

Edda Spiekerkoetter, MD
Assistant Professor of Medicine (Pulmonary and Critical Care Medicine)

Education & Training
Fellowship: Stanford Hospital and Clinics - Critical Care
Fellowship: Stanford University
Fellowship: Lucile Packard Children's Hospital
Residency: Medizinische Hochschule Hannover Germany
Medical Education: University Hospital Freiburg Germany

My research focuses on the importance of the Bone Morphogenetic Protein Receptor 2 (BMPR2) signaling pathway in pulmonary, pulmonary-vascular as well as cardiac disease. Our discovery has lead to the initiation of a phase II clinical trial to test the safety, tolerability and efficacy of low-dose FK506 in PAH at Stanford (http://www.clinicaltrials.gov NCT01647945)

Feb. 11
The Quertermous laboratory employs two basic approaches of study to better understand the genetic basis of atherosclerotic heart disease. One approach uses basic molecular biology methodology, primarily working with cellular and genetic mouse models, and is focused on the recently identified apelin-APJ pathway. A second approach employs the power of modern human genetics. Informative cohorts have been collected that allow investigation of risk factors such as hypertension and insulin resistance as well as coronary heart disease. Initial studies have employed the candidate gene approach, and more recently whole genome association studies, to identify allelic variation that is associated with risk factor and disease susceptibility.

ALL students are highly encouraged to apply to the Dorothy & Marjorie Boring Trust Grant $15,000 for tuition/stipend
External Speakers (Tuesday) | LKSC | Winter 2016

Students will have the opportunity to meet with speakers after seminar.

January 12
12:00 - 1:00 pm | Paul Berg Hall C
Stanley Hazen, MD, PhD
The Leonard Krieger Chair in Preventive Cardiology Department Chair, Dept. of Cellular and Molecular Medicine, Cleveland Clinic

January 19
12:00 - 1:00 pm | Paul Berg Hall B
Jonathan Seidman, PhD
Professor, Department of Genetics Harvard Medical School

January 26
- Dominik Fleischmann
Professor of Radiology (General Radiology), Stanford School of Medicine
- Patricia Nguyen
Assistant Professor of Medicine (Cardiovascular Medicine), Palo Alto Veterans Affairs Health Care System

February 16
12:00 - 1:00 pm @ LKSC | Paul Berg Hall A
Eric J. Topol, MD
Director, Scripps Translational Science Institute
Chief Academic Officer, Scripps Health
Gary & Mary West Chair of Innovative Medicine Professor of Genomics, The Scripps Research Institute

March 01
12:00 - 1:00 pm @ LKSC | Paul Berg Hall A
Todd Rosengart, MD, FACS
Professor of Surgery and DeBakey-Bard Chair of Surgery; Professor of Heart and Vascular Disease, Baylor College of Medicine; Texas Heart Institute

March 08
Time/Location TBD
Jonathan S. Stamler, MD
Director, Harrington Discovery Institute, Case Western Reserve University School of Medicine

March 15
12:00 - 1:00 pm @ M114
Linda L. Demer, MD, PhD
M.C. Guthman Professor of Medicine and Physiology
Vice Chair of Cardiovascular and Vascular Medicine