

# **Research Staff Development Program - Biomedical Series**

The goal of this program is to familiarize participants with various research topics, build awareness of the diversity of biomedical research and provide interaction with colleagues on campus.

## **I. Keynote and Orientation Session for participants seeking certification**

Keynote: Mike Apicella, Associate Dean for Research in the College of Medicine

This is the kickoff event for the series. All members of the research community are welcome.

## **II. Core Technology: 3 required**

- Light Microscopy for the Biomedical Sciences  
.....Kathy Walters & Tom Moninger, Central Microscopy Research Facility
- Applications of Scanning and Transmission Electron Microscopy in Biomedical Research  
.....Randy Nessler, Central Microscopy Research Facility
- Biomolecular NMR Spectroscopy: Principles and Applications  
.....Liping Yu, Nuclear Magnetic Resonance Facility
- An Introduction to Protein Crystallography.....Lokesh Gakhar, X-ray Crystallography Facility
- Nucleic Acid Analysis Technologies: Past, Present, and Future.....Kevin Knudtson, DNA Facility

## **III. Core Disciplines: 3 required**

- Genomics: Science, Public Policy & the Personal Genome  
.....Jeff Murray, Pediatrics
- Mass Spectrometry-Based Proteomics: Applications in the Basic and Clinical Sciences  
.....Michael E. Wright, Molecular Physiology & Biophysics
- Bioinformatics at Iowa.....Thomas Bair, DNA Facility
- Nanomedicine.....Aliasger Salem, Pharmacy
- Gene Therapy: Tools and Applications.....Paul McCray, Pediatrics
- From Embryonic Stem Cells to Induced Pluripotent Cells .....Nick Zavazava, Internal Medicine
- The Role of Telomere Dysfunction in Aging & Cancer.....Aloysius Klingelhutz, Microbiology

## **IV. Major Disease Topics: 3 required**

- Immunological Diseases.....Elizabeth Field, Internal Medicine
- Cancer & the Immune System.....George Weiner, Director Cancer Center
- Role of Oxidative Stress in the Pathophysiology of Cardiovascular Diseases  
.....Francis Miller, Internal Medicine
- Brain Development & the Agents That Disrupt It  
.....Daniel Bonthuis & Bahri Karacay, Pediatrics & Neurology
- Major Infectious Diseases of Humans.....Mary Wilson, Internal Medicine, Microbiology, Epidemiology

## **V. Personal Development: 3 required**

These courses are offered through UI Learning & Development

- Creating Powerful Resumes.....Joan Murrin
- Performance Leadership.....David Bergeon
- Performance Management Miniseries (a series comprised of 3 classes)  
.....Nancy Noyer, Sean Hesler & David Bergeon
- Effective People Skills.....Sean Hesler
- Team Building & Meeting Facilitation Techniques.....Pat Kenner
- The How & What of Effective Communication for Front-Line Supervisors.....Nancy Noyer
- How to Get Your Work Done.....Susan Johnson

## **VI. Celebration Ceremony and Reception**

Keynote: Clark Stanford, Associate Dean for Research