University of Iowa
Book of Experts

Eighty-seventh General Assembly
2017 Session

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**Education Reform**

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**Educational/Instructional Technology**

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Faculty Research Engineer, IIHR -- Hydroscience & Engineering  
- River meandering and channel stability; sediment management in rivers using Iowa Vanes and other structures; fish diversion structures.

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Michelle M. Scherer
Professor and Departmental Executive Officer, Civil and Environmental Engineering.

- Fe redox cycling and biogeochemistry, nanoscience in geochemistry, environmental chemistry, ground water remediation, Mössbauer spectroscopy and electrochemistry.

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Larry J. Weber
Edwin B. Green Chair in Hydraulics
Professor, Civil and Environmental Engineering
Director, IIHR -- Hyrdoscoience & Engineering

- Combining hydro-dynamic data and biological data of fish response to further understanding of fish in the immediate vicinity of passage facilities; application of computational fluids dynamics codes to natural river reaches and hydraulic structures; and the fundamentals principles of plunging jets and combining open channel flows. As director of IIHR, oversees research in fluid dynamics (ship hydrodynamics, turbulent flows, biological fluid flow); environmental hydraulics (structures, river and dam hydraulics, fish passage at dams, sediment management, heat dispersal in water bodies and power production, water-quality monitoring, air-water exchange processes); and water and air resources (atmospheric boundary layer, air pollution, hydrogeology, hydrology, hydrometeorology, remote sensing).

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Geology

Bill McClelland
Professor, Geology

- Expert in Mineral Resources, and Mineral Resource Environmental Science

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International Environmental Law

Jonathan Carlson
Professor of Law and International Studies and Victor and Carol Alvarez Fellow in Law

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Nuclear

**Pamela Kostle**
Environmental Laboratory Manager - Radiochemical Testing, State Hygienic Laboratory
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**Marinea Mehrhoff**
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Research

**John Vargo, PhD**
Environmental Laboratory Scientist – State Hygienic Laboratory
- Provides oversight for method development and other research activities performed at the State Hygienic Laboratory (pharmaceuticals, pesticides, hormones and other emerging contaminants)
  
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Water Quality

**Art Bettis**
Associate Professor, Geoscience
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  **Phone:** (319) 335-1831
James H.J. Buchholz  
Associate Professor of Mechanical and Industrial Engineering  
and Associate Faculty Research Engineer at IIHR—Hydroscience & Engineering.  
- Unsteady aerodynamics of biologically-inspired underwater and aerial vehicles, urban microclimate and transport phenomena, cardiovascular fluid mechanics.  
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David Cwiertny  
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- Environmental chemistry, water and wastewater treatment and reuse.  
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Carrie Davis  
Postdoctoral Scholar, Iowa Institute of Hydraulic Research  
- Assisting with a water-quality initiative to monitor real-time changes in the Mississippi River in response to climatic events, agricultural trends, and other human activities.  
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William E. Eichinger  
William D. Ashton Professor of Civil Engineering  
Professor Civil and Environmental Engineering  
Faculty Research Engineer, IIHR - Hydrosience & Engineering  
- Development of wind LIDAR capability; flow and emissions from confined animal facilities, long range transport from urban areas, development of the boundary layer.  
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Nancy Hall, BS, MT (ASCP)  
Environmental Microbiology Manager – State Hygienic Laboratory  
- Oversees the environmental microbiology section, which provides guidance, water quality testing and interpretations for private well water samples in the state of Iowa.  
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Keri C. Hornbuckle  
Professor, Civil and Environmental Engineering  
Faculty Research Engineer, IIHR - Hyrdroscience & Engineering, Donald E. Bently Professor of Engineering  
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Assistant Faculty Research Engineer, IIHR – Hydroscience & Engineering  
Coordinator, College of Engineering Sustainability Programs  
- Use of sensors to measure water quality at rapid intervals; use of mussels as living biosensors; fate of pharmaceuticals in non-conventional wastewater treatment systems; human exposure to PCBs resulting from industrial dredging operations.  
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Assistant Faculty Research Engineer, IIHR--Hydroscience & Engineering  
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Timothy E. Mattes  
Associate Professor, Civil and Environmental Engineering  
Researcher, Center for Global and Regional Environmental Research  
Associate Faculty Research Engineer, IIHR--Hydroscience & Engineering  
- Environmental biotechnology, oxidative biocatalysis, evolution of microbial biodegradation pathways, and application of genomics and proteomics techniques in the study of environmentally relevant microbial communities.  
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- Manages waterway monitoring operations associated with Iowa the Department of Natural Resources program.
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Michelle M. Scherer
Donald E. Bentley Professor of Engineering
Professor and Departmental Executive Officer, Civil and Environmental Engineering
Faculty Research Engineer, IIHR--Hydroscience & Engineering
- Fe redox cycling and biogeochemistry; nanoscience in geochemistry: reactions of environmental contaminants, such as TCE and Uranium with Fe minerals formed from chemical and biological pathways; behavior of nanoparticle iron minerals in air, water, and soil.
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Doug Schnoebelen, PhD
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- Assisting with a water-quality initiative to monitor real-time changes in the Mississippi River in response to climatic events, agricultural trends, and other human activities.
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Professor, Civil and Environmental Engineering
Co-Director, Center for Global & Regional Environmental Research
Faculty Research Engineer, IIHR -- Hydrosience & Engineering
- Groundwater contamination and hazardous waste remediation; global change; water observatories; phytoremediation; sustainability. Co-directs CGRER, which studies multiple aspects of global environmental change, including the regional effects on natural ecosystems, environments, and resources and on human health, culture, and social systems.
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**Michael Schueller**  
Environmental Manager, State Hygienic Laboratory  
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**Richard L. Valentine**  
Professor, Civil and Environmental Engineering  
Researcher, Center for Global & Regional Environmental Research  
- Reaction mechanisms and kinetics of disinfectant by-product formation in drinking water; inorganic contaminant accumulation in distribution systems; the role of lead oxide in controlling lead in drinking water; occurrence and removal of radio nuclides in drinking water; nano particulate contaminants in drinking water; advanced oxidation processes.  
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**Gabriele Villarini**  
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Assistant Faculty Research Engineer, IIHR – Hydroscience & Engineering  
- Remote sensing of rainfall; modeling of rainfall uncertainties; radar hydrology; flood hydrology; extreme events; stationarity; error propagation; hydrometerology.  
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**Adam S. Ward**  
Assistant Professor, Dept. of Geosciences  
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- Groundwater quality, surface water quality, pollutant (nitrogen, phosphorous, and others) transport in rivers, streams, and wetlands. Hydrological modeling. Sustainable management of water resources  
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**Michael Wichman, PhD**  
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## Hawkeye Lunch and Learn Lecturers

### Anita Jung
**Professor, School of Art & Art History**
- Teaches printmaking, drawing and installation courses. Her work is represented in numerous public art collections and has been exhibited extensively throughout the United States and abroad in juried, invitational and solo exhibitions.

  - [anita-jung@uiowa.edu](mailto:anita-jung@uiowa.edu)
  - (319) 594-0495

### Glenn Ehrstine
**Associate Professor, German and International Studies**
- For the “German Iowa and the Global Midwest” project, which he has co-organized with professors Glenn Penny and Elizabeth Heineman of the UI Department of History, he has begun to research the over 60 German newspapers published in Iowa between 1853 and 1973. His talk, German Iowans and the Politics of Brewing, draws upon newspaper material from Des Moines, Dubuque, Carroll, Waverly, and Iowa City.

  - [glenn-ehrstine@uiowa.edu](mailto:glenn-ehrstine@uiowa.edu)
  - (319) 335-2276

### Donald E. Letendre
**Dean and Professor, College of Pharmacy**
- Dr. Letendre has authored many publications, spoken extensively, and devoted a substantial portion of his professional career to the growth and development of postgraduate pharmacy residencies and in advising pharmacy students and residents nationwide about postgraduate and career opportunities.

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### Lyn Redington
**Dean of Students**
- Dean Redington oversees the student conduct office, student care and assistance, Iowa Memorial Union, Iowa House Hotel, University Club, Student Legal Services, and the Center for Student Involvement and Leadership.

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### Tonya Peeples
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Liz Tovar  
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Health Care

Advanced Registered Nurse Practitioners

Thad Wilson, PhD, RN
Executive Associate Dean
- Specializes in promoting immunizations and health promotion for children.
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Anesthesia

Michael Todd, MD
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Department of Anesthesia
- For issues regarding anesthesia, conscious sedation, etc.
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Cormac O'Sullivan, PhD, CRNA, ARNP
Associate Professor, College of Nursing
- Knowledgeable about anesthesia and pain management, health services; health economics; practitioner and provider preferences, and quality and safety of surgical services and outcomes.
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Audiology

Paul Abbas, PhD
Professor, Department of Communication Sciences and Disorders, Speech and Hearing Center
- Research interest focuses on auditory physiology with emphasis on electrical stimulation of the ear
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Ruth A. Bentler, PhD
Professor and Chair, Department of Communication Sciences and Disorders, Speech and Hearing Center
- Researches hearing aid technology with emphasis in evaluation of device effectiveness and user satisfaction
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Carolyn Brown, PhD, MSPA  
Professor and Licensed Audiologist  
Department of Communication Sciences and Disorders, Speech and Hearing Center  
- Expert in auditory physiology, cochlear implants  
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Steven Green, PhD  
Professor, Neuroscience  
- His research is relevant to the use of cochlear implants, currently the only effective treatment for sensorineural deafness.  
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Lenore Holte, PhD, CCC-A  
Clinical Professor, Department of Communication Sciences and Disorders, Center for Disabilities and Development  
- Expert in childhood hearing loss, immittance audiometry, newborn hearing screening  
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Diane Niebuhr, MA, CCC-A  
Clinical Associate Professor, Department of Communication Sciences and Disorders, Speech and Hearing Center  
- Diagnostic audiology and aural rehabilitation with a special interest in hearing aids and rehabilitation of adults with acquired hearing loss.  
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Richard Tyler, PhD  
Professor, Director of Audiology, Department of Otolaryngology--Head and Neck Surgery  
- Expert on tinnitus (ringing in the ear)  
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Cardiothoracic Surgery

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Chair and Departmental Executive Officer  
Department of Cardiothoracic Surgery  
- For information on innovative heart and chest procedures, including pediatric heart surgery  
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(319) 356-4518
Center for Disabilities and Development

**Elayne Sexsmith, MBA**
Administrator, Center for Disabilities and Development
- Dedicated to improving the health and independence of people with disabilities and creating a life with opportunities for everyone
- Our clinic team works with people with attention deficit hyperactivity disorder, autism spectrum disorder, behavior disorders, cerebral palsy, cognitive disorders, communication disorders, down syndrome, fragile x, spina bifida
- Clinical services include: audiology, developmental behavioral pediatrics, education, nursing, nutrition, occupational therapy, physical therapy, psychology, social services and speech-language pathology

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Chronic Disease Control

**Barry Carter**
Professor, College of Pharmacy  
National Interdisciplinary Primary Care Network
- Evaluate strategies to improve chronic disease control and minimize medication risk utilizing physician/pharmacist collaborative teams. Dr. Carter is an expert on hypertension

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**Erika Ernst**
Associate Professor, Department of Pharmacy Practice and Science  
Clinical Pharmacy Specialist, Infectious Diseases, Department of Pharmaceutical Care, UIHC
- Infectious diseases and antimicrobial agents

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**Dental Access**

**Peter Damiano, DDS, MPH**  
Professor, Preventive and Community Dentistry  
Director, Health Policy Research Program  
Director, Public Policy Center  
University of Iowa  
- Research focuses on issues relating to access to care, quality, cost and outcomes of care.  
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**Mike Kanellis, DDS**  
Professor and Associate Dean for Patient Care  
- Public health issues affecting pediatric dentistry including school based dental care, early childhood caries, access and utilization of dental services by low income children.  
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**Dental Treatment**

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- Public health issues affecting pediatric dentistry including school based dental care, early childhood caries, access and utilization of dental services by low income children.  
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**Dermatology**

**Janet A. Fairley, MD**  
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Department of Dermatology  
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E-Health and Innovation

Patrick Brophy, MD
Assistant Vice President for eHealth and Innovation
- Evaluating new and innovative technology for its ability to improve patient access and reduce health system costs
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Electronic Health Information

Lee Carmen, BSEE
Associate Vice President for Information Systems, UI Health Care
- Oversees information technology services, including technical support, applications development, and clinical applications across UI Health Care enterprise
- Knowledgeable about implementation of electronic medical record systems in health care settings
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Marvin A. and Rose Lee Pomerantz Chair in Public Health and Professor of Epidemiology
- Researches medication use and effects among the elderly.
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- Research interests lie in the general area of information systems, particularly representation and retrieval.
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Dariush Shirazi
Director – Information Technology, State Hygienic Laboratory
- Oversees the laboratory Information Technology infrastructure and programming systems that support electronic transfer of results from patient testing throughout Iowa and the region, including North Dakota, South Dakota and in collaboration with national initiatives.
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**Douglas Van Daele, MD**  
Associate Professor, Otolaryngology—Head and Neck Surgery  
- Knowledgeable about implementation of electronic medical record systems in health care settings  
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**Emergency Medicine**

**Andrew Nugent, MD**  
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Department of Emergency Medicine  
- For issues regarding the practice of emergency medicine, especially workforce in rural areas  
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**Family Medicine**

**Paul James, MD**  
Chair and Departmental Executive Officer  
Department of Family Medicine  
- For issues regarding the practice of family medicine, especially rural practice issues. Lead author of national study that recommended a change in high blood pressure measures  
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**General Health Care Access**

**Tom Gruca**  
Professor of Marketing  
- Healthcare accessibility  
- Marketing strategy  
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Jean E. Robillard, MD
Vice President for Medical Affairs
- Health care reform (federal and state)
- Health and health care policy
- Academic medical centers and academic medicine
- Integrated health care systems
- Academic medicine/health care administration leadership
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Professor, Department of Health Management and Policy, College of Public Health, Director of the Rural Telehealth Research Center
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Health Care Finance

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Chief Financial Officer, UI Hospitals and Clinics
- Health care finance
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Health Care Law

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• Population-based health
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• Administrative rules
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Hospital Dentistry

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Insurance

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• Prescription drug utilization between insured and uninsured individuals  
• Behavioral Economics, consumer attitudes and preferences related to the use of medical care  
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Internal Medicine

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Department of Internal Medicine  
• For issues regarding general health, and also many specialty areas, such as heart disease, digestive disorders, allergy, infectious diseases, rheumatology, kidney diseases, etc.  
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Lean Health Care Management

Barrett Thomas  
Associate Professor of Management Sciences  
• Helps businesses across the state implement Lean theories so they may streamline their operations.  
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Medications and Medication Therapy Access  
(Pharmaceutical Care)

Jay Currie, PharmD  
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Jeffrey Reist
Clinical Associate Professor, Department of Pharmacy Practice and Science
Director, Pharmacy Practice Lab
- Dr. Jeff Reist is a Clinical Associate Professor and Director of the Pharmacy Practice Laboratory at the University of Iowa College of Pharmacy. He maintains a practice site as the clinical pharmacist on the interprofessional team at University of Iowa Hospitals and Clinics Department of Family Medicine Geriatric Clinic
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Multiple Sclerosis

Terry Wahls, MD
Clinical Professor, Internal Medicine
- Created an innovative therapy involving intensive nutrition, progressive exercise, and neuromuscular stimulation to help patients with secondary progressive multiple sclerosis (SPMS).
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Neurology

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Chair and Departmental Executive Officer
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- For issues and disorders of the brain, including stroke, Alzheimer’s, movement disorders, epilepsy, sleep disorders, headache, etc.
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Neuroscience

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Daniel Tranel, PhD  
Professor, Neuroscience PhD Program Director  
- Specific topics include: retrieval of conceptual knowledge; emotion and decision-making; face processing; acquired disorders of social conduct; memory. Has had research pertaining to Alzheimer's and PTSD published in prominent journals.  
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Neurosurgery

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Department of Neurosurgery  
- For information regarding surgery of the brain and spine and the diseases and physiology of the nervous system, including head and spine trauma, brain tumors and brain aneurysm  
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Newborn and Maternal Screening

Stanton Berberich, PhD  
Program Manager – Newborn and Maternal Screening Programs, State Hygienic Laboratory  
- Oversees the laboratory services performed in support of the Iowa Neonatal Metabolic Screening Program and the Iowa Maternal Prenatal Screening Program.  
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- Development and evaluation of maternal depression screening and treatment programs with an emphasis on low income and ethnic minority women  
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Obstetrics and Gynecology

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Department of Obstetrics and Gynecology  
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### Ophthalmology

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Department of Ophthalmology  
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### Orthopaedics

**Thomas Brown, PhD**  
Professor, Biomedical Engineering  
- Researches joint replacement, intra-articular fractures, osteonecrosis, post-traumatic arthritis, and carpal tunnel syndrome.
  
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### Orthopaedics and Rehabilitation

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**Natoshia Askelson, MPH, PhD**  
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Infectious Diseases

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Lucy DesJardin, PhD
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Loreen Herwaldt, MD
Professor, Internal Medicine UI CCOM
Professor, Epidemiology UI COPH
• Healthcare-associated infections
• Staphylococcus aureus, including methicillin-resistant S. aureus (MRSA)
• Applying epidemiological techniques to investigate clusters of infections or other events such as rhabdomyolysis
• Surveillance of infections
• Preventing infection
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Christine Petersen, DVM, PhD
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• Expert on the transmission and prevention of emerging infectious diseases, with an emphasis on the transmission of disease between animals and humans (zoonotic diseases). Director of the Center for Emerging Infectious Diseases.
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Lead Testing

Laurence Fuortes, MD, MS
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• Specialty areas include occupational and environmental toxicology, international health, and minority health issues. Currently leads a project addressing the health of Iowa's atomic weapons workers.
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Donald L. Simmons, PhD
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• Oversees laboratory issues regarding childhood lead poisoning prevention and biomonitoring
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# Maternal and Child Health

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<th>Role</th>
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<td><strong>Kelli Ryckman, PhD</strong></td>
<td>Associate Professor, Epidemiology</td>
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<tr>
<td>College of Public Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Expertise on risk factors for preterm birth and the complications of prematurity; genetics, metabolomics, and developmental origins of chronic disease; prenatal and newborn screening; NICU and pediatric biobanks.</td>
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<tr>
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<tbody>
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<td></td>
<td>Expertise on risk factors for preeclampsia; intimate partner violence (IPV), prenatal stress, and risk of adverse birth outcomes; IPV interventions; treatment for cervical dysplasia, cervical cytokine changes, and risk of preterm delivery; mammographic density as a biomarker of breast cancer risk.</td>
<td></td>
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</tbody>
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# Obesity

<table>
<thead>
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<tr>
<td>College of Public Health</td>
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</tr>
<tr>
<td></td>
<td>Expert in obesity and chronic disease prevention, Latino health, and health disparities.</td>
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<tr>
<th>Name</th>
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<tr>
<td></td>
<td>Economics of education, health economics, labor economics and public economics.</td>
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</table>
Mohammad Jamal, MD
Clinical Assistant Professor, Surgery
- Laparoscopic (minimally invasive) Weight Loss Surgery for morbid obesity (including gastric bypass, laparoscopic adjustable gastric band and sleeve gastrectomy)
- Laparoscopic gallbladder surgery
- Laparoscopic hernia repair
- Laparoscopic foregut surgery (esophageal and stomach surgery)
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- Obesity surgery (also called weight reduction surgery or bariatric surgery)
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- Laparoscopic gastric band for morbid obesity
- Laparoscopic gallbladder surgery
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Linda Snetselaar, RD, PhD
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- Dr. Snetselaar is an authority in nutrition education, obesity, dietary interventions, and preventive medicine. Director of the UI Nutrition Center.
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Preparedness
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**Mike Hartley**  
Emergency Management Coordinator  
- Coordinator and primary contact for the all-hazards disaster preparedness planning and response program at UIHC  
- Responsible for ongoing hospital compliance with the National Incident Management System (NIMS), and maintaining the readiness of the UIHC Hospital Incident Command System (HICS)  
- Responsible for ongoing compliance with emergency management accreditation standards as set forth by The Joint Commission for the hospital and its outreach clinics  
  
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**John Staley**  
Senior Associate Director, UI Hospitals and Clinics  
- Led the development of the Hospital Emergency Incident Command System and its successor the Hospital Incident Command System for the UIHC to establish a structure for use in responding to all types of emergencies and disasters and other major challenges that require a quickly considered and expeditiously agreed to plan of action that involves all necessary components of the UIHC.  
- Longstanding knowledge of and working relationships with leaders of other Iowa hospitals, health care associations, major businesses and State of Iowa Departments including emergency response agencies within the State of Iowa.  
- Have served in several different emergency management roles including Liaison Officer and also as Incident commander in a number of exercises and as back-up in two actual events.  
- Have authored or participated in writing numerous emergency operations plans for general preparedness and for specific applications and also scenarios, injects and assignments associated with several emergency preparedness exercises.  
  
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Prevention

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Workforce

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# Research

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- Genomics
- Neuroimaging
- Neuroscience of Creativity
- Schizophrenia

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### Charles Brenner, PhD

Professor and Roy J. Carver Chair & Head of Biochemistry
- Cellular aging in model systems
- Molecular biology of calorie restriction

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### Ryan Carnahan, PharmD

Associate Professor, Department of Epidemiology, College of Public Health
- Dr. Carnahan is an expert in the study of the use and effects of drugs on large groups of people (pharmacoepidemiology), dementia and other cognitive impairments, clinical psychopharmacology (psychiatric medications, effects of drugs on the brain).

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### Beverly Davidson, PhD

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- Translational medicine development
- Gene therapy
- RNA interference as it applies to neurodevelopment and disease

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**Natalie Denburg, PhD**  
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- Research involves the study of aging cognition. I am particularly interested in how attention and emotion impact cognitive functioning, such as memory and executive functioning, in healthy and clinical populations of older adults.  
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**Keela Herr, PhD, RN, FAAN, AGSF**  
Professor and Associate Dean for Faculty, College of Nursing  
Co-Director, Iowa John A. Hartford Center for Geriatric Nursing Excellence  
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**Brian Kaskie, PhD, MA**  
Associate Professor, Department of Health Management and Policy, College of Public Health  
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- Successful aging  
- Analysis of emergency department use among older adults  
- Collaborative care model for older adults with mental illnesses  
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Associate Professor, Department of Psychiatry, Biomedical Engineering
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- Development of MR imaging techniques for molecular imaging
- Assessment of functional brain changes using MR imaging
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- Neuropsychological features of Alzheimer's disease
- Neuropsychological features of schizophrenia
- Neuropsychology of dementia
- Neuropsychological features of psychosis
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Susan Schultz, MD  
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- Brain aging and how imaging tests of brain structure and metabolism change in later life
- Alzheimer's disease: New treatments in research and new ways of mapping brain and spinal fluid abnormalities in Alzheimer's disease
- Emotional, mood and behavior changes that occur with Alzheimer's disease and other dementias
- Caregiving and care needs for persons suffering memory changes
- Early memory changes ("Mild Cognitive Impairment") in older adults: Assessment and Management
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Daniel Tranel, PhD
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Biotechnology

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Cancer

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- Epstein Barr-virus associated cancers
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- Epigenetic changes in cancer

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- Bioinformatics, computational biology, genome sequence analysis, software tools for human disease mutation identification, computer architecture; parallel processing; distributed computing; software engineering.
- Co-founder of BIO::NEOS, provider of innovative software solutions for all areas of genetics and genomics research. As CBCB director, helps medical researchers study autism, hypertension, cystic fibrosis, cancer, and vision-related diseases.

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- Determining the role of increased vascularity in the prognosis of patients with ovarian cancer
- Using transposon-based mutagenesis as a forward genetic screen in patients with ovarian and endometrial cancer

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<th>Title and Affiliations</th>
<th>Research Interests</th>
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</thead>
<tbody>
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<td><strong>David Lubaroff, PhD</strong></td>
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<td>• Prostate cancer</td>
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<tr>
<td></td>
<td></td>
<td>• Prostate cancer vaccine, Phase II</td>
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<tr>
<td></td>
<td></td>
<td>• Cancer immunology</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>• Cancer immunotherapy</td>
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<tr>
<td><strong>Charles Lynch, MD, PhD</strong></td>
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<td>College of Public Health • Dr. Lynch is a leading expert in cancer surveillance research, epidemiology, and control. Director of the State Health Registry of Iowa, which tracks cancer incidence, survival and mortality among Iowans.</td>
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<tr>
<td><strong>Michael O'Donnell, MD, FACS</strong></td>
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<tr>
<td></td>
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<td>• Mechanism of anti-cancer action of BCG and cytokines</td>
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<td></td>
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<td>• Role of FAS in mediating cancer apoptosis</td>
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<td></td>
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<td>• Use of phage display peptides for bladder cancer targeting</td>
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<td></td>
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<td>• Cytotoxicity</td>
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<tr>
<td><strong>Sue O'Dorisio, MD, PhD, MS</strong></td>
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Cystic Fibrosis

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- Organization of conduct of clinical trials studying treatment of cystic fibrosis related lung disease
- Development of new clinical trial outcome measures for use in patients with early cystic fibrosis related lung disease
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Director, Center for Bioinformatics and Computational Biology (CBCB)

- Bioinformatics  
- Computational biology  
- Genome sequence analysis  
- Software tools for human disease mutation identification  
- Computer architecture  
- Parallel processing  
- Distributed computing  
- Software engineering.  
- Co-founder of BIO::NEOS, provider of innovative software solutions for all areas of genetics and genomics research. Helps medical researchers study autism, hypertension, cystic fibrosis, cancer, and vision-related diseases.

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- Study of diabetes associated with cystic fibrosis  
- Molecular mechanism of redox-mediated signaling in the involved in ischemia/reperfusion injury, sepsis, and inflammation

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Director, Cystic Fibrosis Research Center
- Works to understand the biology and pathogenesis of cystic fibrosis and on developing new treatments.
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- Investigates the biology of acid sensing ion channels in the central and peripheral nervous systems with an emphasis on their role in fear and neurological diseases
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- Gene transfer to human airway epithelia to develop gene therapy in cystic fibrosis
- Antibacterial innate immunity of the airway epithelia
- Investigate the development of vectors for gene therapy in cystic fibrosis
- The effect of an endogenous lactonases ‘paraoxonase’
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Data

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Director, Iowa Informatics Initiative
- Air quality and atmospheric chemistry modeling; data assimilation, chemical weather forecasting. Co-directs CGRER, which studies multiple aspects of global environmental change, including the regional effects on natural ecosystems, environments, and resources and on human health, culture, and social systems.
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  - Dr. Coffey is a Professor of Biostatistics with expertise in the methodology and coordination of large clinical trials. He is currently leading the statistics core for a landmark study of Parkinson’s disease. Participates as an academic member of the Drug Information Association Adaptive Designs Working Group, and serves on a number of Data and Safety Monitoring Boards.
  
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  - Biostatistician with research interests in spatial and a patio-temporal models, infectious disease modeling, statistical methods for speech and hearing science, and disease mapping.
  
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  - Dr. Romitti is an expert in the surveillance of research of congenital and inherited disorders (birth defects, stillbirths, muscular dystrophy). Director of the Iowa Registry for Congenital and Inherited Disorders.
  
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Diabetes

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Associate Professor, Departments of Internal Medicine and Molecular Physiology and Biophysics
Faculty Scholar, Fraternal Order of Eagles Diabetes Research Center
- Studies how diabetes and other diseases affect skeletal muscle, more specifically we study how diseases and aging change muscle gene activity to cause insulin resistance and muscle atrophy
- Searching for a medicine to prevent and reverse muscle wasting. We recently found that ursolic acid (a chemical found in apple peels) prevents muscle wasting and increases muscle mass and strength in mice. Beginning studies that will test ursolic acids in people.
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**Daryl Granner, MD**
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- Pathogenesis of Type 2 diabetes
- Epidemiology of diabetes
- Hormonal regulation of gene expression
- Regulation of gene expression by insulin
- Gluconeogenesis – the production of glucose by non-carbohydrate precursors
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- Diabetes and hypertension
- Mechanisms of obesity-induced hypertension
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  (319) 353-5676
William Sivitz, MD
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- Diabetes Control and Complications
- Insulin sensitivity and insulin resistance
- Obesity and Diabetes
- Nutrient metabolism
- Cellular energy use with emphasis on mitochondrial metabolism as affected by diabetes and obesity
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Director, Pediatric Endocrinology and Diabetes
- Type 1 diabetes in children and adolescents, treatments and management
- Continuous glucose monitoring in type 1 diabetes in children and adolescents
- Hypoglycemia in children and adolescents with Type 1 diabetes
- Exercise and glucose control in children and adolescents with Type 1 diabetes
- Immunomodulation treatments in new onset of Type 1 diabetes
- Neurocognitive and neuroanatomic effects of type 1 diabetes in young children with type 1 diabetes
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- Obesity
- Diabetic Vascular
- Neural complications
- Peroxynitrite Decomposition Catalyst for Treatment of Diabetic Neuropathy
- Pathology of Type 2 Diabetes
- Prevention of Diabetic Neuropathy with ACE Inhibitors
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Nicholas Zavazava, MD, PhD
Professor, Immunology
- Attempting to generate insulin producing cells from embryonic stem cells in order to increase the number of diabetic patients who can be treated.
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## Electronics/Networks/Communications

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<thead>
<tr>
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<th>Position</th>
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</tr>
</thead>
<tbody>
<tr>
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Genetics

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- Bioinformatics
- Computational biology
- Genome sequence analysis
- Software tools for human disease mutation identification
- Computer architecture
- Parallel processing
- Distributed computing
- Software engineering.
- Co-founder of BIO::NEOS, provider of innovative software solutions for all areas of genetics and genomics research. Helps medical researchers study autism, hypertension, cystic fibrosis, cancer, and vision-related diseases.

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- Research and clinical practice bridges basic genetic science with real-world application by providers, educators, and families/parents
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<tr>
<th>Name</th>
<th>Title and Department</th>
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<tr>
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**Graduate Education**

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- Graduate education represents the future of research in America – fueling discovery, building highly skilled workforce of educators, innovators, researchers, and leaders. With alumni in all 99 Iowa counties, 50 states and 127 countries worldwide, our alumni serve the state, contribute to national and international research and take Iowa innovation to the world  
- The University of Iowa Graduate College offers over 150 graduate degree programs from 10 different colleges, which span the Arts and Humanities, Biological Sciences, Health Sciences, Engineering, Education, Physical Sciences, Social Sciences, and Business.  
  
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Heart Disease

Frank Abboud, MD
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Professor of Medicine and Molecular Physiology and Biophysics
Director Emeritus, UI Cardiovascular Research Center, Carver College of Medicine
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  • Autonomic regulation of the immune system in pathophysiologic states such as hypertension
  • Baro- and chemosensory signaling in heart failure and hypertension
  • Molecular mechanisms of sensory transduction in health and disease
  • Neurocardiovascular dysregulation in syncope and heart failure
  • Reciprocal dysautonomia in hypertension
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John W. Colloton Associate Professor in Clinical Cardiology
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  • Coronary Artery Intervention
  • Critical Care Cardiovascular Medicine
  • Heart Disease in Women
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- Pharmacology
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- Calcium-/calmodulin dependent kinase II (CaMKII) signaling in vascular smooth muscle cells
- Regulation of blood pressure and smooth muscle tone by CaMKII
- Calcium- and ROS- dependent signaling in vascular injury
- CaMKII signaling in asthma
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William G. Haynes, MBChB, MRCP, MD
Professor, Department of Internal Medicine
Director, General Clinical Research Center
- Prediction of future heart disease and death using tests of blood vessel function
- Impact of smoking, obesity, diabetes and kidney disease on blood vessels
- Reversal of blood vessel damage using novel treatments targeting oxidant stress
- Vascular medicine, focusing on prevention and regression of atherosclerosis through management of cardiovascular risk factors including hyperlipidemia, hypertension, and high homocysteine
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<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Research Interests</th>
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</table>
| Donald D. Heistad, MD         | R.T. Zahn Professor of Cardiology Professor, Department of Internal Medicine and Pharmacology | - Pathophysiology of aortic valve stenosis  
- Cerebrovascular circulation  
- Atherosclerosis and aging  
- Cardiovascular pharmacology  
- Hypertension | donald-heistad@uiowa.edu | (319) 356-2706 |
| Denise Hodgson-Zingman, MD    | Assistant Professor, Department of Internal Medicine and Biomedical Engineering | - Molecular mechanisms of cardiac energy use, cardiac rhythm and cardiac mechanical function  
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- Study many other mechanisms of myocardial dysfunction | denice-zingman@uiowa.edu | (319) 384-2915 |
| Madhavan L. Raghavan, PhD     | Professor, Biomedical Engineering                          | - Biomechanics of aneurysms and endovascular grafts;  
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| Jennifer Robinson, MD, MPH    | Professor, Department of Epidemiology, College of Public Health; Department of Internal Medicine | - Clinical lipidology and preventive cardiology with an emphasis on treatment of cholesterol  
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| **Curt Sigmund, PhD** | Roy J. Carver Chair in Hypertension Research  
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| **Peter Snyder, MD** | Professor, Department of Internal Medicine and Molecular Physiology and Biophysics  
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| **H.S. Udaykumar, PhD, MS** | Professor, Mechanical and Industrial Engineering  
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- Development of accurate and flexible numerical methods for the simulation of three-dimensional flows in the presence of moving boundaries  
- Broad areas of interest are phase change, multiphase/multimaterial flows and fluid-structure interactions. Applications include: 1. Biomedical flows: white blood cell mechanics, cardiovascular fluid mechanics (plaque growth in arteries, flow in arterial systems, mechanics of heart valves), the mechanics of stomach and intestine. 2. Materials processing: dendritic solidification of materials, interactions of solidification fronts with particles with application to metal-matrix composites and biological material cryopreservation. 3. High-speed flows: projectile impact on materials at high speeds with application to penetration and damage, collapse of voids in energetic materials leading to detonation.  
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Imaging

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Associate Professor, Electrical and Computer Engineering and Department of Internal Medicine, Department of Internal Medicine
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- Lung image analysis
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- Efficient interactive segmentation methods
- PET image analysis
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- Stochastic Processes
- Parallel Programming.
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<tbody>
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<td>• Medical image processing</td>
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<td>• Mathematical modeling of physiological processes</td>
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<td>• Biomedical engineering</td>
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<td>• Physiological systems</td>
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<td>• Medical image analysis</td>
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<td>• Ophthalmic imaging</td>
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<td>• Graph-theoretic approaches for three dimensional images segmentation</td>
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<tr>
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<td>• Spinal biomechanics</td>
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<td>• Patient/subject-specific model development</td>
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<td>• Finite element meshing techniques.</td>
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<td>• Directs MIMX, section of the Center for Computer-Aided Design</td>
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<tr>
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<td>• Imaging processing and inverse problems</td>
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<td>• MR spectroscopic imaging</td>
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<td>• Novel image reconstruction algorithms</td>
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<td>• Development of novel MIR pulse sequences</td>
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<td>• Computer aided therapy planning</td>
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</tbody>
</table>
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**Injury**

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**Insecticides**

**David W. Murhammer**
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**Lung Disease**

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Ching-Long Lin, PhD, MSc
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- Turbulent flow in complex geometry
- Fluid-structure interaction
- Parallel computing
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Professor and Department Executive Officer, Biomedical Engineering Image Analysis Group Leader, Iowa Institute for Biomedical Imaging
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- Cardiovascular imaging
- 3-D medical imaging
- Co-founder of VIDA Diagnostics, Inc., start-up company from UI research.
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Macular Degeneration

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- Bioinformatics, computational biology, genome sequence analysis, software tools for human disease mutation identification, computer architecture; parallel processing; distributed computing; software engineering.
- Co-founder of BIO::NEOS, provider of innovative software solutions for all areas of genetics and genomics research. As CBCB director, helps medical researchers study autism, hypertension, cystic fibrosis, cancer, and vision-related diseases.
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  - Focus on four related areas:
    - Molecular pathogenesis of dystrophin-glycoprotein complex disorders
    - Mechanistic basis of maintaining muscle membrane integrity
    - Molecular pathogenesis of disorders arising from defects in dystroglycan glycosylation
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