



Colorado Clinical and Translational  
Sciences Institute (CCTSI)

UNIVERSITY OF COLORADO **DENVER** | **ANSCHUTZ MEDICAL CAMPUS**

# **LEADERSHIP FOR INNOVATIVE TEAM SCIENCE (LITeS)**

**Description & Directory** | 2015-2016



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# The **CCTSI** Program

The **Colorado Clinical and Translational Sciences Institute (CCTSI)**, created in 2008, includes the University of Colorado Denver, the University of Colorado Boulder, Colorado State University, six major hospitals and health care organizations, and local communities. The CCTSI will:

- Expand this statewide academic home for clinical and translational research.
- Implement new clinical research management strategies to improve quality, safety, efficiency, cost-effectiveness and innovative team science as well as introduce new software systems and workflows
- Centralize the delivery of resources, services and technologies.
- Incorporate key concepts of community engagement into the full spectrum of translational research.
- Increase the translational research workforce capacity through a broad curriculum of education, training and career development opportunities.

A rigorous tracking, assessment and evaluation program with a formal quality and process improvement component will ensure the best use of resources while protecting the safety of research study participants. These programs will be centralized at the University of Colorado Anschutz Medical Campus, which is adjacent to participating schools, research laboratories, three hospitals and a biomedical corporate park.



**RONALD J. SOKOL, MD, FAASLD | Director, Colorado Clinical and Translational Sciences Institute**

*Professor and Vice Chair of Pediatrics*

*Arnold Silverman MD Endowed Chair in Digestive Health*

*Assistant Vice Chancellor for Clinical and Translational Science, University of Colorado Denver*

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Dr. Ronald J. Sokol received his undergraduate degree from the University of Illinois in Champaign-Urbana, his MD from the University of Chicago/Pritzker School of Medicine, and his pediatric residency training at the University of Colorado Medical Center in Denver. He then completed a three-year fellowship in Pediatric Gastroenterology and Nutrition in 1983 at Cincinnati Children's Hospital Medical Center and the University of Cincinnati. Dr. Sokol has been a faculty member at the University of Colorado School of Medicine and Children's Hospital Colorado since 1983 and is now Professor and Vice Chair of Clinical and Translational Research in the Department of Pediatrics and Section Chief of Pediatric Gastroenterology, Hepatology and Nutrition and the Digestive Health Institute at Children's Hospital Colorado. He is Director and Principal Investigator of the Colorado Clinical and Translational Sciences Institute at University of Colorado Denver, funded by the NIH. Dr. Sokol's major scientific interests are investigating the etiology and cellular and immunologic pathogenesis of biliary

atresia; the mechanisms of liver cell injury in cholestatic, fatty liver disease and parenteral nutrition associated liver injury; the role of mitochondria and oxidative stress in liver injury; and developing predictive models for childhood liver diseases. Dr. Sokol is Chair of the Steering Committee of the NIH-supported Childhood Liver Disease Research and Education Network (ChiLDREN). Dr. Sokol is a former President of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN). He has been cited in the book, "Best Doctors in America" since 1994 and received the 2003 Nutrition Award from the American Academy of Pediatrics, the 2009 James E. Strain Award in Pediatrics from Children's Hospital Colorado and the 2009 Harry Shwachman Award from NASPGHAN. Dr. Sokol has published over 185 peer reviewed articles, 100 chapters and review articles, 10 books or monographs, and over 300 research abstracts. He is Co-Editor of "Liver Disease in Children," the leading textbook in pediatric hepatology.



**MARC MOSS, MD | Education, Training, and Career Development (ETCD) Director, CCTSI  
Roger S. Mitchell Professor of Medicine**

*Vice Chair of Clinical Research, Department of Medicine  
Division of Pulmonary Critical Care at University of Colorado Hospital  
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Dr. Moss is leading a five-year clinical study to look at a dysfunction of the nerves or muscles called polyneuromyopathy, which is often a consequence of being on mechanical life support for seven days or more. He is the Roger S. Mitchell Professor of Medicine. Funded by gifts from fund-raising events, donors, the Department of Medicine, and friends of Roger Mitchell, this Chair was established to advance pulmonary research at the University. Dr. Moss has been the Program Director for the Education, Training, and Career Development core of the CCTSI since 2008. He is also the program director for the KL2 program at the University. Since 2006, he has been the Head of Critical Care Medicine, Division of Pulmonary Sciences and Critical Care Medicine. Dr. Moss's research examines the mechanisms by which alcohol abuse and dependence increase susceptibility to acute lung injury, exploring, in addition, the effects of a variety of therapeutic

modalities for patients with ARDS in NIH sponsored clinical trials. Dr. Moss has been the recipient of multiple awards, including the American Lung Association Edward Livingston Trudeau Scholar, the Golden Apple Award for Excellence in Teaching at Crawford Long Hospital and Grady Memorial Hospital, the Emory University Attending Teaching Award, the Emory University Dean's Clinical Investigator Award, and the J. Willis Hurst Internal Medicine Residency Program Mentorship Award. He was included on the Best Doctors in America 2007-2008, 2008-2009, and 2009-2010. Dr. Moss was also selected as the Who's Who in the American Thoracic Society for December, 2007. As the new Vice Chair of Clinical Research for the Department of Medicine, Dr. Moss is committed to improving the scientific infrastructure for all Divisions that will provide continued long-term success in clinical trials and research studies.

# LEADERSHIP FOR INNOVATIVE TEAM SCIENCE (LITeS):

## A Program for Academic and Research Leadership in the Health Sciences

The **Leadership for Innovative Team Science Program (LITeS)** is offered annually by the CCTSI to a selected cohort of University of Colorado senior and emerging leaders. Structured as a year-long experience, individuals attend a quarterly series of 2-day workshops, work throughout the year on a team project, and receive the benefit of individual coaching sessions.

In addition to enhancing leadership skills, LITeS fosters team science by creating a network of colleagues who serve as resources for one another across the University and the CCTSI network, expands opportunities for cross-disciplinary collaboration, and ensures that the next generation of clinical and translational scientists receive the highest quality training for science leadership. In past years, participants in LITeS have included deans, associate deans, department chairs, and vice-chairs, as well

as senior leadership from hospitals, major research centers, and training programs.

The LITeS program addresses three key leadership domains: **1)** individual leadership styles and behaviors; **2)** interpersonal and team skills for leading, managing, and working with people; and **3)** process skills for increasing quality and efficiency in the work of academic leadership. Participants benefit from standardized assessments in such areas as Work Style and Type, Emotional Intelligence, Conflict Management, and Influence Styles. Experienced facilitators lead the group on topics such as: Working with Challenging Colleagues, Communication Styles, Giving and Getting Feedback, Intergenerational Workplace Issues, Time Management, Effective Meetings, Project Management, Developing High Performance Teams, and Stress Management. Additionally, participants will choose a career or professional

development goal, complete a plan for its achievement, and receive guidance in putting the plan to work. Over the course of the year, participants carry out a project with a small team of other LITeS participants. They will function as a work team to address a real and immediate issue of concern for the University. In 2014-15, University leaders became involved as sponsors of these projects. This team structure provides opportunities for peer coaching and for the assessment and development of team skills as well.

Candidates are asked to submit a short application including: a CV, a photo, and brief statement of research interest which will be published in the LITeS directory. For more information about the program, contact Director: Judith Albino, PhD, at 303-724-1467 ([judith.albino@ucdenver.edu](mailto:judith.albino@ucdenver.edu)) or Programs Manager, Emily Warren, MA at 720-848-5523 ([emily.warren@ucdenver.edu](mailto:emily.warren@ucdenver.edu))



**JUDITH ALBINO, PhD | LITeS Director**

*President Emerita and Professor*

*Associate Dean for Planning and Development*

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Judith Albino, PhD, LITeS Program Director, is Associate Dean for Planning and Development with the Colorado School of Public Health. A health psychologist, she began her academic career in the School of Dentistry at the State University of New York. She spent 15 years in academic administration, serving as Associate Provost and Dean of the Graduate School at Buffalo, as Vice President and subsequently President of the University of Colorado, and then as President of Alliant International University in California. Retiring from administration, she returned to Colorado to work with colleagues to build a research program in health disparities of American Indian/Alaska Native populations. She is PI and director of the Center for Native Oral Health Research. She has served on the Council of the National Institute for Dental and Craniofacial Research, and she currently is a member of the NIDCR Special

Grants Study Section. She has served as president or Behavioral Scientists in Dental Research and as Treasurer of the American Psychological Association and of the Federation of Behavioral, Psychological, and Cognitive Sciences. She was named Distinguished Psychologist in Management by the Society of Psychologists in Management, and she was appointed by Governor Hickenlooper to the Board of Caring for Colorado. She consults nationally on leadership and organizational development and planning for higher education and the health professions. She is certified in executive coaching and maintains a small practice in that field, focusing primarily on services to leaders in the academic health professions and coaching to maximize the performance of academic, scientific, and health care teams.



**ANNE LIBBY, PHD | LITeS Faculty**

*Professor and Vice Chair for Academic Affairs*

*University of Colorado School of Medicine*

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Dr. Libby's research training is in economics and public health: Ph.D. at Washington University in St. Louis Department of Economics, an NIMH postdoctoral fellowship at the University of California-Berkeley School of Public Health, and the Berger Fellowship at the Kempe Children's Center. Her research expertise is comparative effectiveness research and the organization and financing of health care systems, with an emphasis on behavioral health. Her current creative work focuses on a patient-level measure of medication regimen complexity and patient valuation. Her externally funded research portfolio includes numerous project and training grants. She has authored numerous peer-reviewed publications. She has taught graduate health economics, outcomes

research, grantsmanship, and leadership since 2005, and is a member of the Academy of Medical Educators, School of Medicine. She co-founded faculty development programs in the Colorado Clinical Translational Sciences Institute that have trained hundreds of faculty at CU: the premier faculty development program in clinical and outcomes research, the *Clinical Faculty Scholars Program* (trained 50+ faculty scholars since 2004); a structured mentoring training program for mentor-mentee pairs, the *Colorado Mentoring Training Program* (COMentor, trained 250+ since 2010); and the *Leadership for Innovative Team Science Program* (LITeS, trained 100+ senior and midcareer faculty since 2009). She is a Gallup certified strengths coach. Dr. Libby cofounded leadership programs for junior women faculty and *Lean-In-CU: Women in Medicine and Science*.

# **LITeS CLASS**

of 2015-2016



**KATIE BAKES**

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*Associate Professor*

*Clinical Director Community Affairs; AIM Director*

Katie Bakes, MD attended Harvard Medical School and completed her Emergency Medicine residency at Harbor UCLA, where she also served as chief resident and was the first Harbor fellow in Emergency Medicine Ultrasound. She has been working at Denver Health as an attending physician in the emergency department since 2001. From 2005-2007, Dr. Bakes completed a fellowship in Pediatric Emergency Medicine at The Children's Hospital of Colorado, returning to Denver Health to open its first dedicated pediatric emergency department, the Denver Emergency Center for Children (DECC). Dr. Bakes served as the medical director of the DECC for its first five years, stepping down in 2014 to pursue her interest in community outreach and violence prevention. Currently, Dr. Bakes is the director of At-Risk Intervention and Mentoring (AIM), Denver Health's hospital-based violence intervention program, co-chair of the Injury Prevention committee, and the Community Affairs Clinical Director for Denver Health. She is an Associate Professor in the department of Emergency Medicine at University of Colorado, School of Medicine. She is an editor of *Emergency Medicine Secrets*, 9th Edition of Rosen's *Emergency Medicine: Concepts and Clinical Practice*, and *New England Journal of Medicine*, *Journal Watch Emergency Medicine*.



**VIRGINIA BORGES**

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*Associate Professor*

*Director, Breast Cancer Research Program*

The focus of my clinical work and research is on the significant problem of young women's breast cancer, which carries an extremely high burden of increase in metastatic potential. I have 15 years of experience in this specific subset of young breast cancer and developed a clinical program focused on this issue in 2004. Subsequently, I initiated a fully translational research program, the Young Women's Breast Cancer Translational Program in 2006. This unique program combines cutting edge clinical care specifically tailored to the needs of the younger woman with breast cancer, as well as a solid translational research program that specifically focuses on why these cancers have a greater risk of metastatic potential. The Borges lab focuses on understanding the immunologic differences in young women's breast cancer and the development of immune based therapies for improvement in outcomes in young women's breast cancer, with a special emphasis on postpartum breast cancer, as a unique high risk subset. Since 2014, I also direct the Breast Cancer Research Program at the UCCC and lead a team of researchers and staff that work on the development of novel therapeutics for breast cancer, including investigator initiated studies from member individual areas of expertise. My own clinical research focuses on the areas of need in young women's breast cancer, and therefore targets brain metastasis, Her 2 neu based therapies and immunotherapy for breast cancer. Additionally, I am the national PI on two cooperative group studies investigating the role of complete tumor ablation for improvement in progression free survival in oligo-metastatic breast cancer.



**RUSSELL BOWLER**

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*Professor*  
*Director*

The Bowler laboratory studies molecular pathogenesis of smoking related lung disease. There is a strong emphasis on generation and integration of genetics, genomics, proteomics and metabolomics data. Complementary animal and laboratory exposure models (smoke and eCigarettes) are used to demonstrate proof of concept using discoveries from human Omics work. We have one of the largest clinical databases and biobanks of COPD including COPDGene (10,300 subjects), SPIROMICS 3,200 subjects, and the NJH COPD cohort (3,000 subjects), all with longitudinal clinical data. These data sets provide a great opportunity for clinical and translational research.



**REBECCA BRAVERMAN**

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*Associate Professor*  
*Clinical Medical Director Pediatric Ophthalmology*

I am originally from Michigan and received my MD degree from Wayne State University School of Medicine. Upon graduation, I became a Flight Surgeon in the United States Navy and was based in California, Florida and Spain. Following my military duty, I completed my residency in Ophthalmology at the University of Florida and Pediatric Ophthalmology and Adult Strabismus fellowship at Emory University. Having lived in warm climates for a decade, I decided to move to Colorado and have been a faculty member of the CU SOM department of Ophthalmology since 2003.

I have the privilege of caring for children and adults with medical and surgical diseases of the eyes and practice primarily at Children's Hospital Colorado. My responsibilities go beyond clinical care and extend into the academic, research and leadership domains. I have the opportunity to teach medical students, residents and fellows in the classroom, at the bedside and in the operating room. My research endeavors are primarily clinical and involve retinopathy of prematurity, vision screening and abnormalities of the retina associated with disorders of cholesterol metabolism. My leadership roles include Clinical Medical Director of the Pediatric Ophthalmology Division, Retinopathy of Prematurity Service Coordinator and most recently the CU SOM Faculty Senate President Elect.



**BRIAN DAY**

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*Professor  
Vice Chair of Research*

As Vice Chair of Medicine for research I have developed and implemented the Medicine Office of Research (MOOR) that was established in 2012 to provide basic, translation and clinical research infrastructure in the Department of Medicine at NJH. The MOOR provides research infrastructure through two sections, the Basic Science Section and the Clinical and Translational Science Section. These sections provide a number of programs aimed at supporting the medicine faculty research endeavors. Instruments developed by the MOOR to achieve its goals include: 1) a grant writing workshop that meets twice weekly throughout the year; 2) a grant submission database that tracks DOM faculty grant submissions and awards; 3) Basic Science Section workshop lecture series that invites investigators to talk about novel research techniques; 4) Clinical Translational Science Section Clinical Update lecture series that updates each division's clinical research programs; 5) microgrant funding provided by both sections to help initiate research studies and resources needed to apply for larger external grants; and 6) a research retreat to bring together the research faculty from the Basic Science and Clinical and Translational Research Sections. The long term goals of these activities is to provide research infrastructure that improves grant funding success rates, foster better communication and collaboration among the researchers and promote the linear integration of basic science findings to the clinic.



**KAREN DOBOS**

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*Associate Professor  
Associate Director*

I currently have a dual appointment at Colorado State University as an Associate Professor in the Microbiology Department and an Associate Director in the Office of Research Integrity and Compliance Review (RICRO). My research team is focused on the discovery, validation, and testing of novel biomarkers for diagnosis and treatment response for infectious diseases, notably tuberculosis, using experimental animal models and through clinical studies with human cohorts. In addition, the research team is responsible for production, qualification and provision of a number of biological reagents; requiring a high standard of reproducibility and substantial open data sharing. These research efforts require our research team to become more knowledgeable in clinical and translational research needs and challenges. In addition to this work in my academic appointment, my administrative efforts include directing the unit at RICRO. This unit is responsible for administration of the Institutional Animal Care and Use Committee (IACUC), Institutional Biosafety Committee (IBC), Institutional Review Board (IRB), Quality Assurance (QA), and Responsible Conduct of Research (RCR) compliance activities university-wide; thus we need to continually be aware of new regulations, and new research programs, endeavors, and interests in order to accurately and rapidly manage these regulatory needs for our research community. All of these needs intersect with clinical and translational research programs, again, demonstrating a need for continuous training, education, and building on service-oriented leadership skillsets in clinical and translational sciences.



**GLENN FURUTA**

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*Professor*

*Director*

Dr. Furuta serves as Professor of Pediatrics, Attending Physician in the Digestive Health Institute at Children's Hospital Colorado and the Director of the Gastrointestinal Eosinophilic Diseases Program, a tertiary care clinical and research program that seeks to improve the lives of children with eosinophilic gastrointestinal diseases (EGIDs). In these roles, he seeks to foster the development of a new generation of physician scientists who will accelerate improvements and engage in transformative research in digestive healthcare for generations to come. To achieve this goal, he has taken advantage of the rich resources on the Anschutz Medical Campus including the CCTSI infrastructure by participating in their grants program, clinical research seminars and Co-Mentor program. These experiences have allowed him to obtain a NIH K24 award that supports his efforts to mentor scientists in patient oriented research with a focus on EGIDs. He work is also funded by an NIH U54 grant that supports the Consortium for Gastrointestinal Eosinophilic Researchers (CEGIR). The overriding goals of CEGIR are to perform adult and pediatric natural history studies of EGIDs and train a new generation of clinical and translational researchers with an EGID focus. Taken together, these resources provide Dr. Furuta with an opportunity to approach one of his goals of "protecting the future" by building, sustaining and leading a clinical translational research infrastructure in this focused area of digestive health.



**BONNIE GANCE-CLEVELAND**

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*Loretta C. Ford Professor*

As the Loretta C. Ford Chair in the College of Nursing at the University of Colorado Anschutz Medical Campus my goal is the translation of science to practice. I direct an area of research excellence, the Initiative for Promoting Healthy Lifestyles Across the Lifespan that facilitates connections between academia and community partners to address the prevention and treatment of obesity. I have been a member of the team funded by the Colorado Health Foundation for the Colorado ECHO project. I have 20-years of experience in faculty practice in a school-based health center and research on outcomes of school-based interventions. I have been funded by NIH to evaluate school-based support groups for adolescents with an addicted parent and by AHRQ a comparative effectiveness trial of web-based training using the health disparities collaborative with and without decision support. My current research interests focus on substance abuse, obesity prevention in school-based settings, motivational interviewing, and use of technology to improve provider's use of current evidence in practice. I was the Chair of NAPNAP's Healthy Eating and Activity Together (HEAT) Research Work Group and was a member of the American Medical Association Expert Writing Group on Childhood Obesity. I served on the American Heart Association Oversite committee for center grants and serve on the National Advisory Committee for childhood obesity for the National Initiative on Child Health Quality (NICHQ). I have also been funded by Blue Cross and Blue Shield to conduct an outcome evaluation of the school-based obesity prevention curriculum using the community-based participatory method.



**ADIT GINDE**

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*Associate Professor*

*Program Director*

Adit Ginde, MD, MPH is Associate Professor and Director of Research in the Department of Emergency Medicine at the University of Colorado School of Medicine. Dr. Ginde now actively practices and teaches emergency medicine at University of Colorado Hospital, while a majority of his time is spent on research as a clinical and translational scientist with expertise in prevention and treatment of respiratory infection and acute lung injury. He is co-Director for the CCTSI Clinical Faculty Scholars Program, founding Director of the Emergency Medicine Scientist Training and Intensive Mentorship (EM-STIM) program, and co-PI for the Colorado Clinical Center of the NHLBI-funded Prevention and Early Treatment of Acute Lung Injury (PETAL) network.

Dr. Ginde's primary research focuses on understanding the role of vitamin D in immune responses to infection and vaccines, especially in high-risk patient populations such as older adults and those with obstructive lung diseases. He conducts clinical trials, observational research, as well as clinical relevant animal studies. Dr. Ginde has published over 100 peer-review articles in a variety of leading medical journals and has received consistent extramural grant funding as Principal Investigator to support his work, totaling over \$3 million. Sponsor for his grant awards include the NIH, Colorado Clinical and Translational Sciences Institute, American Geriatrics Society, Hartford Foundation, and Emergency Medicine Foundation. His recent work has been featured on National Public Radio, CNN, and numerous nationally recognized newspapers and magazines.



**JOHN KENDALL**

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*Professor*

*Director of Emergency Ultrasound, DHMC*

I am a Professor of Emergency Medicine at the University of Colorado School of Medicine and the Director of Emergency Ultrasound at Denver Health Medical Center. I also direct the Denver Health ultrasound fellowship and the University of Colorado School of Medicine longitudinal ultrasound curriculum. In these roles, I oversee and mentor learners at all levels of training including medical students, residents, and fellows. Much of my research has focused on the use of clinician-performed ultrasound in Emergency Medicine. As additional specialties and medical students adopt ultrasound in their clinical and research practices, it is important that I possess the skills to guide research efforts across specialties and for trainees with varying educational backgrounds.



**RESA LEWISS**

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*Associate Professor  
Director of Point-of-Care Ultrasound*

I am the Director of Point-of-Care Ultrasound. As such I have appointments in the Departments of Emergency Medicine and Radiology. My responsibilities can be categorized as clinical, educational, administrative and research in nature. I am responsible for the point-of-care ultrasound education of learners in the emergency department. I participate as a faculty member for programs outside the department, such as the Critical Care Fellowship program, beginning in 2016. I am developing a quality assessment program, which includes machinery purchase, a software workflow solution, documentation and coding/billing. Learners are for example medical students, physician assistants, residents, faculty colleagues and nurses. As such, much of my research has focused on medical education and competency assessment. This focus has recently expanded to studying the performance of time and pain saving ultrasound guided procedures. For example, we have submitted a proposal to study point-of-care ultrasound guided nerve blocks in geriatric hip fracture patients as a means of reducing the need for systemic narcotics in this vulnerable population.



**LISA MAIER**

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*Professor  
Chief*

Dr. Lisa Maier is an occupational pulmonologist, involved in clinical translational research to define genetic, genomic, epigenetic and exposure risk factors that predict granulomatous lung diseases, including chronic beryllium disease (CBD). She is the Director of the CCTSI, UCD and NJH Core Laboratories providing CCTSI PIs clinical and research laboratory assays. She is also Chief of Environmental and Occupational Health Sciences at National Jewish Health. In these roles, Dr. Maier provides leadership to 8 faculty, over 30 staff, residents in occupational medicine and internal medicine, pulmonary fellows, visiting professors, and post-doctoral fellows. In addition to the above activities, she enjoys teaching trainees in the clinic, laboratory and in their graduate studies (MPH, PhD), consulting with industry and providing support for patients and other scientific groups.



**MICHAEL MCDERMOTT**

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*Professor*

*Director, Endocrinology and Diabetes  
Practice, UCH*

I am a Professor of Medicine and Clinical Pharmacy at the University of Colorado Denver School of Medicine and Director of the Endocrinology and Diabetes Practice at the University of Colorado Hospital. I am primarily a clinician, managing patients 5 days a week with general Endocrinology disorders (Diabetes Mellitus, Thyroid Disease, Metabolic Bone Disease, Parathyroid Disease, Adrenal Disease, Gonadal Disorders, Pituitary Disease and Lipid Disorders). My clinical research interests include novel approaches to the management of Type 1 and Type 2 Diabetes Mellitus, personalized management of thyroid disorders, determining the long term consequences of hypoparathyroidism and innovative approaches to the treatment of osteoporosis. I serve as a primary investigator in clinical studies and a research advisor for medicine residents, endocrinology fellows and residents and fellows in the School of Pharmacy.



**EDWARD MELANSON**

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*Associate Professor  
Researcher*

My research has focused on studying energy metabolism and how alterations in normal metabolism impact weight gain and obesity. I obtained my first R01 as a principal investigator (PI) in 2007, and a 2nd R01 as PI in 2011. I have maintained active and productive collaborations with several investigators from within and outside of the university, as evidenced by the number of R01, R21, and SBIR grants for which I have been a co-investigator, as well as the publications that have been generated from these research programs. I have been a member of the IMAGE (Investigations in Metabolism, Aging, Gender and Exercise) Research Group since 2001, which was founded by Drs. Robert Schwartz and Wendy Kohrt in 1999. The mission of the IMAGE Group is to be a national leader in human aging research focused on the prevention of disease and the maintenance of functional independence in old age. My duties encompass training and supervising research assistants, designing studies and interpreting results with investigators who use this core facility, as well as overseeing the day-to-day operation, ongoing maintenance and upgrades, and financial oversight. I have assumed a growing role as a mentor to more junior investigator. I have mentored or co-mentored three post-doctoral fellows. In addition to my mentoring activities, I have a secondary appointment in the Program in Physical Therapy, where I teach courses related to exercise, nutrition, and obesity.

**LEE NEWMAN**

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*Associate Professor*

*Director of SOP Mass Spectrometry Facility*

Lee S. Newman, M.D., M.A., FCCP, FACOEM is a Professor of Environmental and Occupational Health, in the Colorado School of Public Health, where he founded and directs the Center for Health, Work and Environment. He founded and directs the Mountain and Plains Education and Research Center, a quad-institutional CDC/National Institute for Occupational Safety and Health training and research center. In addition, Dr. Newman is Professor of Medicine in the Division of Allergy and Clinical Immunology and Division of Pulmonary Sciences and Critical Care Medicine in the Department of Medicine, School of Medicine. In 2004, he founded and served as President and CEO of Axion Health, Inc. (Westminster, CO), an occupational health and safety health informatics company providing software as a service. He now serves as the company's Chairman of the Board and chief medical informatics officer. Dr. Newman received his Bachelor of Arts degree in psychology from Amherst College and his Masters of Arts degree in social psychology from Cornell University Graduate School of Arts and Sciences. He earned his MD from Vanderbilt University School of Medicine, completed internship and residency in Internal Medicine at Emory University School of Medicine, and pulmonary fellowship at the University of Colorado Denver/National Jewish Health. Dr. Newman has authored 160 scientific research studies, more than 100 books, chapters, and monographs. He has served as an advisor to government agencies (US OSHA, NIOSH, CDC, FDA, EPA, DOE), private corporations, small and medium sized enterprises, labor organizations, and

16 community organizations in his 30-year career.

I am an Associate Professor in the Department of Pharmaceutical Sciences in the Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of Colorado Anschutz Medical Campus. My research applies metabolomics and proteomics to the study of complex respiratory diseases such as asthma and COPD. For example, we have used metabolomics to determine a role for sphingolipids in COPD; we have specifically determined that sphingomyelins are positively correlated with emphysema; trihexosylceramides are negatively associated with exacerbations. We are currently using a variety of approaches to improve health-care for asthmatics; this includes using small molecules to predict response to medication. I also Direct the School of Pharmacy Mass Spectrometry Facility; we provide high quality service in proteomics, metabolomics, informatics, and clinical assay development. This position allows me to collaborate on a number of individual projects, team science approaches, and campus wide initiatives. Finally, I have directed an 'omics training program for 11 years; over 400 individuals from around the world have attended our hands on and we-based courses.



**JENNIFER RICHER**

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*Professor  
Department of Pathology*

I have been conducting research on nuclear hormone receptor action for over 20 years. My laboratory tackles clinically relevant issues related to hormone dependent women's cancers from a basic cell and molecular approach, establishing productive collaborations with oncologists, pathologists and surgeons locally and nationally. A recent research focus is on the role of androgen receptors in breast cancer and my lab's preclinical data lead to the first clinical trials of a new generation anti-androgen in breast cancer. As partnering principal investigators, long-term clinical collaborator, Dr. Anthony Elias and I obtained a multi-million dollar project to conduct further preclinical and clinical trials testing the therapeutic potential of targeting AR in breast cancer. I also lead a tumor immunology team science project that spans multiple disciplines. Nationally I serve on the Editorial Board for Breast Cancer Research and Hormones and Cancer, multiple grant review panels, and am co-chairing the 2016 Keystone Symposium on Nuclear Receptors. I am an active mentor of graduate students and fellows and the success of my trainees is a priority and passion. I was a 2015 recipient of the Graduate School Dean's Mentoring Award and the BEST Faculty Sponsor Award.



**ANDREW SIROTNAK**

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*Professor  
Vice Chair for Faculty Affairs*

In my current role as Professor and Vice Chair for Faculty Affairs in Department of Pediatrics, I am responsible for program management for mentoring, faculty development, evaluation, conflict resolution and wellness support for our faculty. This leadership role began in 2014 and I also am Director of Child Protection Team at Children's Hospital Colorado, a multi-disciplinary clinical team that provides care for children who have been abused or neglected. My current clinical work, education and outreach efforts, administrative duties, and clinical research focus on child maltreatment. My patients and families are often in great crisis or high conflict and thus require a broad inter-disciplinary skill set. I have grown as a professional and pediatric health care provider through the challenges of these cases, in the navigation of the complex systems that respond to them, and with the support of hospital colleagues, my terrific team staff and friends. Having been qualified as an expert witness in pediatrics and child abuse in criminal and civil courts in the Rocky Mountain region, and participating in Child Fatality Review Teams at the regional and state levels, my work has extended beyond care provided in the clinics, emergency department and inpatient units.



**CLAY SMITH**

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*Professor  
Associate Chief, Division of Hematology*

Dr. Smith trained at the University of Texas in Dallas as well as New York Hospital and Sloan Kettering Cancer Center. He has been on the faculty of Sloan Kettering, Duke University and was the Director of the Leukemia/BMT Program and Chair of the BC Tumor Group Council for the province of British Columbia. He has been the Director of the Blood Cancer and BMT Program at the University of Colorado since 2012 and is the Associate Chief for the Division of Hematology there. Dr. Smith's research laboratory focuses on healthy blood stem cells as well as stem cells in MDS and leukemia and how the latter can be targeted and eliminated. He is also very interested in translating these findings into new clinical trials as well as ensure access to these new treatment for the patients he serves. He has helped start two companies, been the recipient of dozens of research grants, published over 125 scientific papers and served as a speaker at over 50 national and international conferences.



**MARCI SONTAG**

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*Associate Professor  
Director MPH Epidemiology*

I am an associate professor in epidemiology in the Colorado School of Public Health. My research interests are in pediatric epidemiology, with a special focus in newborn screening, early diagnosis, and applications of the microbiome in understanding early lung disease. I am currently a part of a multidisciplinary team to investigate the role of changes in the microbiome for risks of ventilator associated pneumonia. I am Director of NewSTEPS 360, a national collaboration to improve newborn screening systems using epidemiologic principles to improve newborn screening programs. Within the Colorado School of Public Health I direct the MPH Epidemiology Concentration, and chair the Education and Curriculum Committee while teaching courses in genetic epidemiology.



**PREM SUBRAMANIAN**

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*Professor  
Vice Chair for Academic Affairs*

I am the new Vice Chair for Academic Affairs in the Department of Ophthalmology and will have the responsibility of helping faculty members define and develop their academic efforts through both research and teaching. I will be coordinating the teaching activities of our residency and fellowship programs to ensure a cohesive and integrated system continues to exist as we expand our faculty numbers and physical resources. For the past 15 years, I have been working in collaborative, multispecialty environments to study the efferent visual system and its dysfunction with traumatic brain injury and local orbital diseases. I will be continuing this research program, in which we study double vision/strabismus and other eye movement disorders that occur in the context of injury or disease that alters ocular motor control, while also fulfilling my leadership role within the department. I plan to use my experience in forming cross-departmental teams to help my faculty members identify opportunities for academic advancement and achievement beyond the Eye Institute itself.



**HEIDI WALD**

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*Associate Professor  
Vice Chair for Quality*

I am fellowship-trained geriatrician and clinician-investigator, with experience in the conduct of interdisciplinary, extramurally-funded research focused on patient safety for the frail older population. I have a background at the intersection of geriatric medicine, hospital medicine, health services research, and health policy. I have a longstanding interest in the prevention of Hospital-acquired conditions (HACs), with a primary focus on prevention of catheter-associated urinary tract infection (CAUTI). In particular, I have expertise in HAC performance measurement and implementation of HAC prevention strategies, which has included extensive work with electronic health records (EHR), quantitative analyses of large data sets, and quantitative analytic methods. I am interested in systems solutions to patient safety for older patients and have worked to define the role of and models for hospitalists in the acute care of older patients. I have increasingly focused on pressure ulcer and delirium prevention, as well as the post-acute care setting. With support from the CTSA, I am working with colleagues to increase opportunities for research in post-acute care between University faculty and Colorado's post-acute care providers. My academic role as Vice Chair for Quality in the Department of Medicine has additionally provided me the opportunity to implement and evaluate patient safety strategies which have included measurement of safety culture, team training, and revised approaches to peer review.



**SHANDRA WILSON**

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Assistant Professor

Associate Program Director Urologic Oncology

Shandra Wilson is a native to Colorado. She attended Medical School at Washington University and then completed her residency at the University of Southern California. Her fellowship was in Urologic Oncology and she has been at the University of Colorado since 2004. Shandra's special interest centers around bladder cancer. She has been involved in making a robust data base for these patients and is actively engaged in several quality improvement projects around these patients. Shandra is also very interested in process improvement and she has registered to begin her executive MBA in 2016. Shandra has sat on the UPI board, faculty senate, and currently sits on the OR committee. She has played a significant role in the on-time start and turnover projects for our ORs. She is excited about participating in a course that will expand her horizons and, even more importantly, has the potential to improve outcomes for patients.





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