

2021 External Advisory Committee Board Members



Daniel Cooper, MD

Director, Institute for Clinical and Translational Science
Program Director, Clinical Research Center at Irvine
University of California, Irvine

Dan M. Cooper MD is the UC Irvine Associate Vice Chancellor for Clinical and Translational Science and the PI of UCI's CTSA, the Institute for Clinical and Translational Science (ICTS). Dr. Cooper is a pediatric pulmonologist and professor of pediatrics with more than 35 years of NIH funding focused broadly on the role of physical activity in health and disease in babies, children, and adolescents, all critical periods of growth and development. He received his MD degree at UCSF, trained in pediatrics at NYU Bellevue, and completed a pediatric pulmonary fellowship training under the mentorship of the late Dr. Robert Mellins at Columbia University. Dr. Cooper spent 15 years at Harbor-UCLA Medical Center where he continued his clinical and academic career and benefitted greatly from the mentorship of Dr. Karlman Wasserman, a pioneering researcher in exercise science and the late Dr. JoAnne Brasel, renowned for her work in the endocrinology of growth and development. Among current projects, Dr. Cooper is the PI of the Pediatric Clinical Center of the NIH Common Fund Molecular Transducers of Physical Activity, the most ambitious study ever undertaken to elucidate the mechanisms that link physical activity to improved health across the lifespan. Dr. Cooper also leads the NCATS funded Project REACH (Revamping Exercise Assessments in Child Health) which is focused on developing novel approaches to integrate whole body gas exchange, immune cell genomics, and flow cytometry to develop better ways to use exercise in diagnostic and therapeutic basic science and clinical discovery.



Patrick A. Flume, MD

Co PI, Medical University of South Carolina CTSA
Associate Vice President for Clinical Research
Medical University of South Carolina

Patrick Flume is a Professor of Medicine and Pediatrics at the Medical University of South Carolina. He serves as the Powers-Huggins Endowed Chair for Cystic Fibrosis and oversees the MUSC Cystic Fibrosis Center. He is the Editor-in-Chief for the Journal of Cystic Fibrosis. He leads additional clinical programs dedicated to bronchiectasis and non-tuberculous mycobacteria (NTM). He leads the clinical research program for the MUSC pulmonary division. His own interests include new drug and therapy development for patients with CF, bronchiectasis and NTM lung disease, but he also has an interest in determining optimal management of CF pulmonary exacerbations. He serves as co-PI for the MUSC CTSA award, guiding several programs including the Nexus (clinical research center) and Regulatory Knowledge and Support. He serves as the Associate Vice President for Clinical Research for the institution.



Rebecca Jackson, MD

Director, OSU Center for Clinical and Translational Science
Associate Dean for Clinical Research
The Ohio State University

Rebecca D. Jackson, MD, is the Max Morehouse Chair of Cancer Research, founding Director of the Ohio State University Center for Clinical and Translational Science, Associate Dean for Clinical and Translational Research, and Professor of Endocrinology, Diabetes and Metabolism at The Ohio State University. Her research is concentrated in the area of women's health with a specific focus on defining clinical factors, biomarkers and genetic associations for diseases that disproportionately affect women including osteoporotic fractures, osteoarthritis and cardiovascular disease as well as characterizing the effects of environmental factors such as physical activity, dietary factors and medication exposure (e.g. postmenopausal estrogen or calcium plus D) that modify disease risk. More recently, she brought together a research team across 6 Ohio academic centers, 19 community partners and RecoveryOhio to participate in the NIDA-funded HEALing Communities Study, a parallel-arm, cluster randomized, wait-list controlled trial of a community-engaged intervention uses a phased, data-driven planning process to mobilize communities to identify and implement evidence-based opioid interventions to reduce opioid overdose deaths by 40%. Her laboratory has had continuous NIH support for more than 3 decades and she has authored or co-authored more than 270 peer-reviewed manuscripts including the landmark Women's Health Initiative Calcium plus vitamin D trial, the estrogen plus progestin trial and conducted the first genome wide association study to elucidate genetic variants associated with risk for hip fractures. Dr. Jackson is also a nationally recognized leader in supporting education and training of translational scientists and has served as the Lead of the Workforce Development Domain Task Force for the CTSA Consortium, PI for an Administrative supplement to develop a semantically-anchored federated platform for educational resource sharing (the N-Lighten Network), mPI for a NCI U24 grant to coordinate workshops for career development of early career cancer investigators and she has been an invited panelist on a number of workforce taskforces through FASEB, ACT and NIH. She has served as a member of the Board of Directors of the Clinical Research Forum, past Chair of the Steering Committee of the Women's Health Initiative and the CTSA consortium, past president for the Association of Clinical and Translational Science, and past member of the NIH Advisory Board for Clinical Research. She has been the recipient of numerous awards including the Kellogg National Fellowship, the Ohio Women's Hall of Fame, the AACR Team Science Award, the ACTS Team Science Award and the Barry Collier Distinguished Service Award from ACTS. In 2008, she was elected as a Fellow of the American Association for the Advancement of Science and in 2015, she received the OSU Distinguished Scholar Award, one of the University's highest research honors.



Philip R.O. Payne, PhD, FACMI, FAMIA, FAIMBE, FIAHSI

Janet and Bernard Becker Professor & Director, Institute for Informatics (I2)
Associate Dean, Office of Health Information & Data Science and Chief Data Scientist
Washington University School of Medicine
Professor, Computer Science & Engineering, McKelvey School of Engineering, Washington
University in St. Louis

Dr. Payne is the Janet and Bernard Becker Professor and Director of the Institute for Informatics (I2) at Washington University in St. Louis. He also serves as the Associate Dean for Health Information and Data Science and Chief Data Scientist for the Washington University School of Medicine. He holds additional appointments as a Professor of General Medical Science in the School of Medicine and as a Professor of Computer Science and Engineering in the McKelvey School of Engineering. Dr. Payne received his PhD with distinction in Biomedical Informatics from Columbia University, where his research focused on the use of knowledge engineering and human-computer interaction design principles to improve the efficiency of multi-site clinical and translational research programs. Dr. Payne's leadership in the informatics community has been recognized through his appointment to numerous national steering, scientific, editorial, and advisory committees, including efforts associated with the American Medical Informatics Association (AMIA), AcademyHealth, the Association for Computing Machinery (ACM), the National Cancer Institute (NCI), the National Library of Medicine (NLM), and the National Center for Advancing Clinical and Translational Science (NCATS). In addition, he is an elected fellow of both the American College of Medical Informatics (FACMI) and AMIA (FAMIA). Dr. Payne is the author of over 200 publications focusing on the intersection of biomedical informatics and the clinical and translational science domains, including several seminal reports that have served to define a new sub-domain of biomedical informatics theory and practice specifically focusing upon clinical and translational research applications. Dr. Payne's research group currently focuses on efforts in the following areas: 1) machine learning and cognitive computing approaches to the discovery and analysis of bio-molecular and clinical phenotypes and the ensuing identification of precision diagnostic and therapeutic strategies; 2) interventional approaches to the use of electronic health records and clinical decision support systems; and 3) the design and evaluation of open-science platforms that enable collaborative and cumulative approaches to discovery science.



Sean Mooney, PhD, FACMI

Co-Lead, NCATS CTSA National Center for Data to Health
Chief Research Officer
University of Washington Medicine

Dr. Sean Mooney is the Chief Research Information Officer (CRIO) of UW Medicine and a Professor in the Department of Biomedical Informatics and Medical Education at the University of Washington. As CRIO, he leads the growing Research Information Technology team and provides strategic vision to the development of new platforms that leverage large clinical datasets. Previous to his CRIO role, he was an Associate Professor and Director of Bioinformatics at the Buck Institute for Research on Aging in Northern California. His group is known for managing the development of informatic tools for supporting biomedical research. His research interests focus on data science applications in biomedicine, particularly in understanding the underlying molecular causes of inherited genetic diseases and cancer. As an Assistant

Professor, he was appointed in Medical and Molecular Genetics at Indiana University School of Medicine and founder and director of the Indiana University School of Medicine Bioinformatics Core. In 1997, he received his B.S. with Distinction in Biochemistry and Molecular Biology from the University of Wisconsin at Madison. He then received his Ph.D. in 2001 at the University of California in San Francisco, and was later an American Cancer Society John Peter Hoffman Fellowship at Stanford University. He is funded by the National Library of Medicine and other NIH Institutes, mostly in the area of data science and translational medicine. He also has experience leading the construction of communities; he is co-founder of one of the largest nonprofits focusing on biomedical entrepreneurship in the Bay Area, BioE2E, and the Indiana Biomedical Entrepreneur Network. He was part of the team that won the \$150k 2000 Garage.com Student Business Plan Competition, where the proposed plan focused on web-based tools for drug discovery research.



Julian Solway, MD

Director, Institute for Translational Medicine
Dean for Translational Medicine
University of Chicago

Julian Solway, MD, is the Walter L. Palmer Distinguished Service Professor of Medicine and Pediatrics at University of Chicago. As Dean for Translational Medicine, he is Founding Director of the University of Chicago-Rush University Institute for Translational Medicine and its NIH Clinical and Translational Science Award (CTSA), and for 16 years was Vice Chair for Research in the Department of Medicine. Dr. Solway served full terms on the NHLBI HLBP (program project grant review) and NIH/CSR Respiratory and Applied Physiology Study Sections, and was Deputy Editor of the American Journal of Respiratory and Critical Care Medicine. He has held national leadership roles as President of the ATS RSF Assembly and co-Chair of the National CTSA Consortium Steering Committee, and is currently Treasurer of the Association for Clinical and Translational Science. He received a BS from Massachusetts Institute of Technology and his MD from Harvard University, subsequently completing residency and a pulmonary fellowship at the Brigham and Women's Hospital.



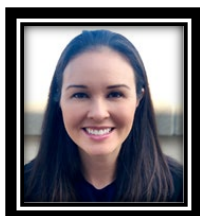
John Yates III, PhD

Ernest W. Hahn Professor, Molecular Medicine and Neurobiology
The Scripps Research Institute

John R. Yates is the Ernest W. Hahn Professor in the Departments of Molecular Medicine and Neurobiology at The Scripps Research Institute. His research interests include development of integrated methods for tandem mass spectrometry analysis of protein mixtures, bioinformatics using mass spectrometry data, and biological studies involving proteomics. He is the lead inventor of the SEQUEST software for correlating tandem mass spectrometry data to sequences in the database and developer of the shotgun proteomics technique for the analysis of protein

mixtures. His laboratory has developed the use of proteomic techniques to analyze protein complexes, posttranslational modifications, organelles and quantitative analysis of protein expression for the discovery of new biology. Many proteomic approaches developed by Yates have become a national and international resource to many investigators in the scientific community. He has received the American Society for Mass Spectrometry research award, the Pehr Edman Award in Protein Chemistry, the American Society for Mass Spectrometry Biemann Medal, the HUPO Distinguished Achievement Award in Proteomics, Herbert Sober Award from the ASBMB, and the Christian Anfinsen Award from The Protein Society, the 2015 ACS's Analytical Chemistry award, 2015 The Ralph N. Adams Award in Bioanalytical Chemistry, the 2018 Thomson Medal from the International Mass Spectrometry Society, the 2019 John B. Fenn Distinguished Contribution to Mass Spectrometry award from the ASMS, and the 2019 HUPO Award in Discovery. He was ranked by Citation Impact, Science Watch as one of the Top 100 Chemists for the decade, 2000-2010. He was #1 on a List of Most Influential in Analytical Chemistry compiled by The Analytical Scientist 10/30/2013 and is on the List Of Most Highly Influential Biomedical Researchers, 1996-2011, European J. Clinical Investigation 2013, 43, 1339-1365 and the Thomson Reuters 2015 and 2019 List of Highly Cited Scientists. He has published over 1100 scientific articles with >154,266 citations, and an H index of 192 (Google Scholar). Dr. Yates served as an Associate Editor at Analytical Chemistry for 15 years and is currently the Editor in Chief at the Journal of Proteome Research.

2021 CTSC Program Officer



Jamie Mihoko Doyle, PhD

Program Director, Division of Clinical Innovation, NCATS

Jamie Mihoko Doyle is a program director in the Division of Clinical Innovation, where she manages a portfolio of Clinical and Translational Science Awards Program grants. Prior to joining NCATS, Doyle was a team lead in the Division of Statistical Analysis and Reporting within the NIH Office of Extramural Research (OER), where she led analyses supporting trans-NIH programmatic activities, policy development and workforce planning. Prior to her tenure at OER, she was a program evaluator at the Health Resources and Services Administration, in the Bureau of Health Workforce, where she led the design, restructuring and evaluation of primary health care training programs. Doyle also has held regulatory and science policy positions at the National Institute of Mental Health, the Science and Technology Policy Institute, and Pfizer, Inc.

Doyle earned her doctorate in demography from the University of Pennsylvania and holds a Bachelor's degree in economics from the University of Texas at Austin. She completed her postdoctoral training in epidemiology at the Perelman School of Medicine at the University of Pennsylvania, where she examined social and environmental factors associated with injury and mortality risk in Guatemala and among Hispanics in Philadelphia.