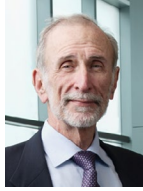




Pennsylvania Pediatric Medical Device Consortium

CLINICAL & SCIENTIFIC ADVISORY COMMITTEE

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Robert J. Levy, MD

Principal Investigator and Chair, Clinical and Scientific Advisory Committee

Robert Levy, MD, is the PPDC principal investigator and chair of the PPDC Clinical and Scientific Advisory Committee. He is the William J. Rashkind Endowed Chair in Pediatric Cardiology at Children's Hospital of Philadelphia. He has appointments as professor of Pharmacology and professor of Pediatrics at the Perelman School of Medicine of the University of Pennsylvania. Dr. Levy is also section chief for research in the Division of Cardiology at CHOP.

He has experience extending over three decades concerning device development, relating to both pediatric and adult clinical indications. His NIH-funded research has led to 46 issued U.S. patents. These patents have been the basis of extensive licensing activities, including four clinically used bioprosthetic heart valves developed by Abbott, Inc.

For the past 20 years, Dr. Levy has been the director of the NHLBI's Research Training Program in Pediatric Cardiology at CHOP, and he has completed a four year term as a standing member of the NHLBI Training Grant Study Section. Dr. Levy provides specific expertise concerning all aspects of pediatric medical device development, preclinical testing, and the regulatory approval process.



William R. Wagner, PhD

Co-Chair, Clinical and Scientific Advisory Committee

William Wagner, PhD is the co-chair of the PPDC Clinical and Scientific Advisory Committee. He is also the director of the McGowan Institute for Regenerative Medicine as well as a professor of Surgery, Chemical Engineering, and Bioengineering at the University of Pittsburgh. He serves as scientific director of the NSF Engineering Research Center on "Revolutionizing Metallic Biomaterials" and chief science officer for the Armed Forces Institute of Regenerative Medicine. He holds a BS from Johns Hopkins University and doctorate in Chemical Engineering from the University of Texas. Dr. Wagner is the founding editor and editor-in-chief of one of the leading biomaterials journals, *Acta Biomaterialia*, past-president of the American Society for Artificial Internal Organs, and past chairman and current council member of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) Americas region.

He is a fellow and former vice president of the American Institute for Medical and Biological Engineering and has also been elected a fellow of the Biomedical Engineering Society, the International Union of Societies for Biomaterials Science and Engineering, TERMIS, and the American Heart Association.

In 2006 he was selected to the "Scientific American 50" annual list recognizing leaders in science and technology from the research, business and policy fields. His research has generated numerous patents and patent filings that have resulted in licensing activity, the formation of a company that began clinical trials in 2014, and University of Pittsburgh Innovator Awards 2007, 2008, 2009, 2010, and 2014. In recent years he has been awarded the Society for Biomaterials Clemson Award for Applied Research, the Chancellor's Distinguished Research Award by the University of Pittsburgh, and the Senior Investigator Award by TERMIS-Americas. In 2017 he was inducted into the National Academy of Inventors and in 2018 he was named Inventor of the Year by the Pittsburgh Intellectual Property Law Association.

His research interests are in cardiovascular engineering with projects that address medical device biocompatibility and design, biomaterial development, and tissue engineering.



Harvey Borovetz, PhD

Member, Clinical and Scientific Advisory Committee

Harvey Borovetz, PhD, is a Distinguished Professor and former Chair (2002-2013) in the Department of Bioengineering, Swanson School of Engineering, at the University of Pittsburgh. Among his research interests are cardiovascular organ replacements for adult and pediatric patients, and the development of ventricular assist devices for infants and neonates.



David M. Eckmann, PhD, MD

Member, Clinical and Scientific Advisory Committee

David Eckmann, PhD, MD, is a board-certified attending anesthesiologist at The Ohio State University Wexner Medical Center and previously at the Hospital of the University of Pennsylvania. He is also a biofluid dynamicist whose research is focused on problems in interfacial science linking biomedical engineering and clinical medicine.

His interests include nanoparticle targeting for vascular drug delivery; thin film surfaces for biocompatible and infection resistant implant devices; and cellular metabolic engineering interrelating cytoarchitectural integrity and mitochondrial bioenergetics.



Ilia Fishbein, PhD, MD

Member, Clinical and Scientific Advisory Committee

Ilia Fishbein, PhD, MD, is a research associate professor of Pediatrics at University of Pennsylvania School of Medicine. His research interests are in the field of vascular gene therapy, including vascular pathology, imaging, atherosclerosis, restenosis, gene therapy, adenovirus, adeno-associated virus, NO, NO synthase, ROS, nanotechnology.



Daniel Licht, MD

Member, Clinical and Scientific Advisory Committee

Daniel Licht, MD is a pediatric neurologist and director of the neurovascular imaging lab at Children's Hospital of Philadelphia.

His areas of expertise are coma and prognosis, intensive care neurology, neurologic complications of congenital heart disease, pediatric stroke, and seizures.



Kathryn Maschhoff, MD

Member, Clinical and Scientific Advisory Committee

Kathryn Maschhoff, MD is an attending neonatologist in the Division of Neonatology at Children's Hospital of Philadelphia with a special interest in cardiac development and conotruncal heart defects.



Laura Mercer-Rosa, MD, MSCE

Member, Clinical and Scientific Advisory Committee

Laura Mercer-Rosa, MD, MSCE, is a board-certified attending cardiologist in the Cardiac Center at Children's Hospital of Philadelphia as well as an assistant professor in Pediatrics at the Perelman School of Medicine at the University of Pennsylvania.



Vladimir Muzykantov, MD, PhD

Member, Clinical and Scientific Advisory Committee

Vladimir Muzykantov, MD, PhD is professor of Pharmacology, Perelman School of Medicine, University of Pennsylvania with research interests in drug/gene targeting and vascular biology.



Joseph Rossano, MD, MS, FAAP, FACC

Member, Clinical and Scientific Advisory Committee

Joseph Rossano, MD, MS, FAAP, FACC is a pediatric cardiologist and chief of the Division of Cardiology at Children's Hospital of Philadelphia. He holds the Jennifer Terker Endowed Chair in Pediatric Cardiology.

Dr. Rossano is also medical director of the Pediatric Heart Failure and Transplant Program. In addition, he is an attending physician in the Cardiac Center and the Cardiac Intensive Care Unit (CICU) and an associate professor of Pediatrics at the Perelman School of Medicine at the University of Pennsylvania.



Flora Winston, MD, PhD

Member, Clinical and Scientific Advisory Committee

Flora Winston, MD, PhD is a board-certified pediatrician, a doctorally-trained engineer, and a public health researcher, who conducts research at the interface of child and adolescent health, injury, engineering and behavioral science. Dr. Winston's work is published in peer-reviewed journals and conference proceedings and focuses on the area of traffic injury. Her research to action to impact approach, pragmatic rigor, has led to patents and a focus on evidence-based mobile health (mHealth) for better health.

She is a professor of pediatrics at the University of Pennsylvania in Philadelphia and serves as the Scientific Director of the Center for Injury Research and Prevention at Children's Hospital of Philadelphia, Director of the National Science Foundation Industry/University Cooperative Research Center, the Center for Child Injury Prevention Studies (CChIPS), and Director of a National Science Foundation Research Experience for Undergraduates site.

Dr. Winston's areas of expertise include bioengineering, general practice, injury prevention, pediatric traffic injury, post-traumatic stress disorder, and teen drivers.



Marc Yudkoff, MD

Member, Clinical and Scientific Advisory Committee

Marc Yudkoff, MD is an attending physician with the Metabolic Disease Program at Children's Hospital of Philadelphia. His areas of expertise include brain and whole body amino acid metabolism.