Wearable Sensors for Research and Practice in Systems Nutrition

6th NuGO WEBINAR

14th of February 2022, 15:00-17:00 CET
Dr John Paul SanGiovanni  
*BIO5 Institute, University of Arizona, USA*

Dr. John Paul SanGiovanni directs the Center for the Study of Nutrient-Responsive Systems. He joined the University of Arizona Department of Nutritional Sciences, Precision Nutrition and Wellness Initiative and BIO5 in the fall of 2019 after nearly twenty years as a scientist at the National Institutes of Health. Dr. SanGiovanni trained in neuroscience, visual psychophysics, nutritional biochemistry, biostatistics, and epidemiologic research design at Harvard University (Sc.D., M.S.), Brandeis University (M.A.), and Boston College (A.B.). Profiles may be found on NeuroTree, LinkedIn and Google Scholar.

At the NIH, Dr. SanGiovanni acted as lead scientist of teams advancing knowledge on the role of conditionally essential tissue-resident nutrients in health and disease of the retina and brain. His achievements span direction of multi-center clinical trials that led to standard-of-care treatments for age-related degeneration (JAMA, 2013) to the first successful genome-wide association study on complex disease (Science, 2006) to mechanistic in vivo model-based studies elucidating actions of diet-based fatty acids in the retina (Nature Medicine, 2007). Dr. SanGiovanni received the NIH Director's Award twice for key contributions in developing the first resource in the NIH Database on Genotype and Phenotype (dbGaP). He was awarded the Norman Salem Jr. Early Career Award from the International Society on the Study of Fatty Acids and Lipids and has published works in Science (cover feature), Nature Medicine (cover feature), Science Translational Medicine, JAMA, PNAS, J. Neurosci., Pediatrics, FASEB Journal, Circulation, Oncotarget, and American Journal of Clinical Nutrition. His works have been cited > 1000 times each year for the past decade. Dr. SanGiovanni’s research program has three dominant themes: 1) integrative omics for characterizing variation and complexity of response to dietary intake; 2) non-invasive in vivo human physiological imaging and electrophysiology for development of prognostic|response biomarkers in retinal health and disease; and, 3) microphysiological human retinal systems for characterizing modifiable processes that drive nutrient sensing and cellular signaling.
Joseph Wang, is currently a SAIC Endowed Chair, Distinguished Professor of Nanoengineering and Director of the Center for Wearable Sensors at the University of California, San Diego (UCSD).

Between 2014 and 2019 he served as the Chair of the Department of Nanoengineering at UCSD. Previously, he was a Professor of the Department of Chemical Engineering at Arizona State University (ASU) and Director of Center for Bioelectronics and Biosensors at the Biodesign Institute. He obtained his higher education at the Technion and being awarded his D. Sc. in 1978. From 1978 to 1980 he served as a research associate at the University of Wisconsin (Madison) and joined New Mexico State University (NMSU) at 1980. From 2001-2004, he held a Regents Professorship and a Manasse Chair positions at NMSU. Since 1980, 30 Ph.D. candidates and 300 research associates and visiting scholars have studied with Professor Wang.
Professor John A. Rogers began his career at Bell Laboratories as a Member of Technical Staff in the Condensed Matter Physics Research Department in 1997 and served as Director of this department from the end of 2000 to 2002.

He then spent thirteen years on the faculty at University of Illinois, most recently as the Swanlund Chair Professor and Director of the Seitz Materials Research Laboratory.

In the Fall of 2016, he joined Northwestern University as the Louis Simpson and Kimberly Querrey Professor of Materials Science and Engineering, Biomedical Engineering and Medicine, where he is also Director of the recently endowed Institute for Bioelectronics. He is a member of the National Academy of Engineering, the National Academy of Sciences, the National Academy of Medicine and the American Academy of Arts and Sciences.
Dr Wei Gao  California Institute of Technology, USA

“Wearable sweat biosensors for personalized health monitoring”

Wei Gao is an Assistant Professor of Medical Engineering, Ronald and JoAnne Willens Scholar, and Heritage Medical Research Institute (HMRI) Investigator in the Division of Engineering and Applied Science at the California Institute of Technology.

He received his Ph.D. in Chemical Engineering at University of California, San Diego in 2014. In 2014–2017, he was a postdoctoral fellow in the Department of Electrical Engineering and Computer Sciences at the University of California, Berkeley. He is an Associate Editor of Science Advances. He is a recipient of Pittsburgh Conference Achievement Award, Office of Naval Research (ONR) Young Investigator Award, Sloan Research Fellowship, IEEE EMBS Early Career Achievement Award, IEEE Sensor Council Technical Achievement Award, 3M Non-Tenured Faculty Award, MIT Technology Review 35 Innovators Under 35, and ACS DIC Young Investigator Award. He is a World Economic Forum Young Scientist, a member of Global Young Academy, a Highly Cited Researcher (Web of Science), and a National Academy of Engineering USFOE alumnus. His research interests include wearable devices, biosensors, flexible electronics, micro/nanorobotics, and nanomedicine.

For more information about Gao’s research, visit www.gao.caltech.edu.
Kent Dicks | CEO & Founder – Life365

Kent E. Dicks is a serial entrepreneur with 30+ years of experience providing strategic leadership across several business sectors.

Dicks is a recognized thought leader in the digital health space. He now leads Life365, developing a virtual care platform that unites a range of connected health solutions, user engagement tools, and services, on an integrated platform, in order to reach and address the chronic care population. Prior to Life365, Dicks founded MedApps, a cloud-based healthcare platform that was acquired by Alere (now Abbott Labs).