

Congwu Du, Ph.D.



Dr. Congwu Du received her Ph.D. in Biomedical Engineering from the Medical University of Luebeck, Germany in 1996, and continued her postdoctoral fellowship in biophotonics first with Dr. Brittan Chance at University of Pennsylvania and then with Dr. Alan Koretsky at Carnegie Mello University. In 2002, she moved to the Brookhaven National Laboratory and State University of New York at Stony Brook as Assistant Scientist/Professor; presently she is full professor in the Department of Biomedical Engineering at the Stony Brook University. Her scientific involvement with the Center for Translational Neuroimaging (lead by Dr. Nora Volkow and Dr. Jonna Fowler) at Brookhaven National Laboratory, which housed one of the leading groups in neuroimaging of drug addiction, convinced her that Neuroimaging techniques are poised to make a major impact in understanding of the physiological changes resulting from drugs of abuse. Her current research focuses on developing advanced biophotonic imaging techniques for translational research, specifically for optical neuroimaging with high spatiotemporal resolutions aimed at addressing challenges related to the complex brain functional changes induced by drug abuse and addiction, which includes separation of vascular from neuronal/astrocytic effects of cocaine. She has been Principal Investigators on multiple neuroimaging-related research grants from National Institutes of Health (NIH) and Department of Energy (DOE), including the Award of the American Recovery and Reinvestment Act (ARRA) from NIH, as well as Outstanding Mentor Award from DOE. Dr. Du has over 100 peer-reviewed publications, including in PNAS, (Nat) Molecular Psychiatry, J. Clinical Investigation, J. Neuroscience, NeuroImage, Appl. Phys. Lett, Opt. Lett., etc.