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XiuJun (James) Li, Ph.D., is an Associate Professor in the Department of Chemistry and Biochemistry, Biomedical Engineering, and Border Biomedical Research Center at the University of Texas at El Paso (UTEP), USA. After he obtained his Ph.D. degree in microfluidic lab-on-a-chip bioanalysis from Simon Fraser University (SFU) in Canada in 2008, he pursued his postdoctoral research with Prof. Richard Mathies at University of California Berkeley and Prof. George Whitesides at Harvard University, while holding a Postdoctoral Fellowship from Natural Sciences and Engineering Research Council (NSERC) of Canada. He has gained extensive experience in bioanalysis using microfluidic systems, such as single-cell analysis, genetic analysis, low-cost diagnosis, pathogen detection, 3D cell culture, and so on. Dr. Li's current research interest is centered on the development of innovative microfluidic lab-on-a-chip and nanotechnology for bioanalysis, biomaterial, biomedical engineering, and environmental applications, including but not limited to low-cost diagnosis, nano-biosensing, tissue engineering, and single-cell analysis. He has coauthored about 100 publications in high-impact journals (such as *Adv. Drug Deliv. Rev.*, *Appl. Catal. B-Environ.*, *Anal. Chem.*, *Lab Chip*, *Biosens. Bioelectron.*) and 22 patents, including three books from Elsevier on microfluidic devices for biomedical applications. He is an Advisory Board member of *Lab on a Chip* and *Analyst*, the Founder of *microBioChip Diagnostics LLC*, and an editor of 6 journals including *Scientific Reports* from the Nature publishing group, *Micromachines*, etc. He is the recipient of the "Bioanalysis New Investigator Award" in 2014, UT STARS Award in 2012, NSERC Postdoctoral Fellow Award in 2009, and so on. For more information, please visit <http://li.utep.edu>.