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Prof. Jung-Chih Chen is a Professor at the Institute of Intelligent Bioelectrical Engineering, National Yang Ming Chiao Tung University (NYCU), with joint appointments in Electrical and Computer Engineering, Biological Science and Technology, the College of Artificial Intelligence, and the International Ph.D. Program in Photonics. He received his B.S. in Chemistry and M.S. in Biomedical Engineering from National Cheng Kung University, and his Ph.D. in Biomedical Engineering from National Taiwan University.

Prof. Chen's research focuses on biomedical sensing, integrating electrochemical sensors, biomaterials, and artificial intelligence for translational healthcare applications. His recent work emphasizes rapid screening technologies for Alzheimer's disease, including a patented method based on the plasma A β 40/42 ratio for early detection. His team has also developed low-sample-volume, high-sensitivity sensing platforms suitable for point-of-care diagnostics.

Prior to joining academia, he served at the National Science Council (2001–2012) and later as a research professor at the Medical Device Innovation Center, National Cheng Kung University Hospital (2012–2014). His work has been featured on the cover of Analytical Chemistry multiple times, highlighting the impact of his contributions to chemical and biomedical sensing.

With a strong interdisciplinary foundation, Prof. Chen is committed to bridging medicine and engineering through human-centered biomedical innovations, aiming to develop practical, user-oriented solutions for clinical and healthcare challenges.