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Prof. Yu-Jui Fan

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Dr. Yu-Jui Fan received his Ph. D from National Taiwan University, Institute of Applied Mechanics in 2014. He was a research assistant at University of California, Los Angeles, Mechanical and Aerospace Engineering, USA, during Mar. 2009 – Feb. 2013. He joined Taipei Medical University, School of Biomedical University as an assistant professor in December 2016, and moved to National Yang Ming Chiao Tung University (NYCU), Taiwan in August 2025. He currently is a full professor in Mechanical Engineering, NYCU. He received Young Investigator Awards from Taipei Medical University in 2020 and 2022, Young Investigator Paper Award, and Best Paper Award from Association of Chemical Sensor Taiwan in 2019, 2020, and Ta-You Wu Memorial Award, National Science and Technology Council, Taiwan in 2023. He was published 61 scientific journal articles with H index of 24.

Dr. Fan's research focuses on investigating multiphysics-interacted novel phenomena in microsystems for versatile applications. Several topics are currently moving on including (1) Development of micro environmental platform for elucidating collective cell mechanotransduction. Moreover, building up a vessel mimicking microfluidic system for studying mechanism of vessel thrombosis, and drug screening. (2) Development of a large cargo delivery into cell system for mitochondrial cell therapy. Especially focus on stem cell therapy. (3) Development of advanced multiplex microfluidics technology, e.g. enzymatic analysis, DNA analysis, and proteomics, and in chemical synthesis.