Speaker Bio

Dr. Fei-Man Hsu is an Assistant Professor in the Smart Medicine and Health Informatics Program at National Taiwan University. She received her Ph.D. from the University of Tokyo and specializes in bioinformatics and computational epigenomics. Dr. Hsu also earned an M.S. in Molecular and Cellular Biology and a B.S. in Life Science from National Taiwan University. Prior to joining NTU, she conducted postdoctoral research in the Department of Molecular, Cell, and Developmental Biology at UCLA, where she investigated epigenetic mechanisms underlying human germ cell development and epigenomic medicine.

Dr. Hsu's research focuses on how DNA methylation and other epigenetic mechanisms regulate human development, respond to infection, and contribute to disease progression. By integrating large-scale sequencing analysis, statistical modeling, machine learning, and experimental approaches, her work aims to identify molecular biomarkers that improve disease prediction, diagnosis, and therapeutic strategies. Her recent studies emphasize computational genomics and epigenomics in human primordial germ cells, viral impacts on host epigenomes, large-scale next-generation sequencing (NGS) analysis, and development of bioinformatic tools.