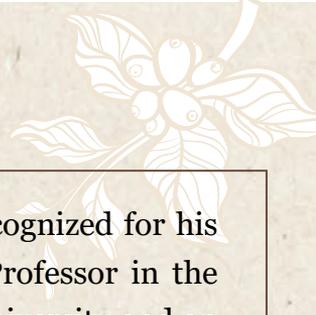


Speaker Bio



Dr. Pei-Lung Chen (陳沛隆) is a physician-scientist and endocrinologist recognized for his leadership in medical genomics and precision medicine in Taiwan. He is a Professor in the Graduate Institute of Medical Genomics and Proteomics at National Taiwan University and an Attending Physician in the Department of Medical Genetics and the Department of Internal Medicine at National Taiwan University Hospital. He continues to care for patients with endocrine disorders and genetic diseases, integrating frontline clinical experience with research and innovation. Dr. Chen also directs an NGS-based clinical genetic testing laboratory that provides accredited sequencing services for a wide range of hereditary conditions, playing a central role in the implementation of genomic diagnostics in clinical practice.

Dr. Chen earned his M.D. from National Taiwan University and his Ph.D. in Human Genetics and Molecular Biology from the Johns Hopkins University School of Medicine. His research spans genomic technology development, immunogenomics, pharmacogenomics and disease modeling. He has developed capture-based targeted sequencing platforms and advanced bioinformatics pipelines to resolve challenging genomic regions, including the gAIRR Suite for germline adaptive immune receptor repertoire profiling, capture-based HLA genotyping workflows and KIR annotation using high-quality human genome assemblies. In addition to human genomics, Dr. Chen uses model organisms such as mouse models to investigate disease mechanisms, bridging molecular discoveries with physiological relevance.

Dr. Chen has received numerous honors for his contributions in research, innovation and education. His awards include the National Innovation Award, the Tech Innovation Excellence Award, the Exceptional Performance Award for Teachers and multiple Excellence in Teaching Awards at National Taiwan University. He serves in leadership roles within professional societies, including the Pharmacogenomics Society of Taiwan, the Endocrine Society of the Republic of China, and the Taiwan Human Genetics Society, and collaborates widely with national and international research groups. Through his combined efforts in clinical care, research, technology development and mentorship, Dr. Chen continues to advance patient-centered precision medicine and foster the next generation of biomedical scientists.