2025 Global Outstanding Overseas Compatriot Alumni
【Academic Accomplishment Award】
Dr. Wing P. Chan

For thirty years, he has guarded the screen of medical imaging machines - and in doing so, preserved the health and dignity of osteoporosis patients. He pioneered an automated fracture detection system, established diagnostic standards for osteoporosis, and introduced new evidence-based drug prevention strategies. He is not just a laboratory researcher; he is a hands-on medical-imaging practitioner whose work reaches every frontline physician and patient.

Professor Wing P. Chan was born in Hong Kong, and in 1978, began his studies at Taipei Medical University's School of Medicine. After graduating in 1985, he trained in diagnostic radiology at NTU Hospital. He later joined the University of California, San Francisco (UCSF) as a research fellow and assistant professor**,** where he worked under a leading figure in osteoporosis medicine - an experience that shaped his future research direction and broadened his global perspective.
During his time in the U.S., Professor Chan displayed intense academic curiosity and a dedication to evidence-based practice**.** He immersed himself in radiological research, studying international journals, conducting experiments, and analyzing clinical cases. This period solidified his professional foundation and instilled a lifelong commitment to integrating cross-disciplinary research with clinical application.

Professor Wing P. Chan is a leading figure in the fields of medical imaging and osteoporosis research in Taiwan. With decades of dedication to both clinical practice and academic inquiry, he has played a pivotal role in advancing healthcare quality and shaping national medical policies and diagnostic standards.

One of his most significant contributions lies in the diagnosis of osteoporosis. He was the first to establish Taiwan's diagnostic

criteria based on the U.S. NHANES III dataset - a groundbreaking move that set a national benchmark. These standards were formally adopted by the Taiwanese Osteoporosis Association and have since been widely implemented across teaching hospitals nationwide.
He collaborated with the Taiwan Radiological Society to launch both required and advanced courses on osteoporosis diagnosis, which drew active participation and recognition from nearly 1,000 diagnostic radiologists - significantly strengthening professional expertise in osteoporosis detection and treatment across Taiwan's healthcare system. He also partnered with the Taiwan Osteoporosis Association to actively promote a primary prevention policy for osteoporosis. By advocating for National Health Insurance coverage for patients who had not yet experienced fractures but exhibited any one of three comorbidities, he helped enable countless at-risk individuals to receive early intervention - slowing disease progression and reducing the risk of fractures.

In the fields of artificial intelligence and automated imaging, Professor Wing P. Chan has been a pioneer. He developed an automated vertebral compression fracture detection system and a structured analysis tool for bone density imaging reports, both of which have received patents in multiple countries. These innovations offer earlier and more accurate warnings and intervention opportunities for patients.

In musculoskeletal repair and regenerative medicine, he introduced a novel discovery involving ePRF (essence Platelet-Rich Fibrin). His research advanced one-step cartilage repair methods and was the first to confirm that platelets and repair factors are primarily concentrated in the red blood cell layer of PRF gel - providing a valuable clinical indicator for regenerative medicine.

Looking ahead, Professor Chan aspires to promote a "Lifelong Bone Health Initiative", integrating AI in medical imaging, bone

density modeling, and community-based healthcare systems to ensure early diagnosis and timely treatment for patients at the onset of symptoms**.** He also envisions establishing an international collaborative network in osteoporosis research, aiming to enhance Taiwan's global influence and voice in both osteoporosis and medical imaging - ultimately benefiting patients worldwide.

Professor Wing P. Chan expresses deep gratitude to Taipei Medical University and Taiwan's healthcare system for their longstanding support, as well as to his early training at UCSF, where he learned to pursue research that is "truly meaningful to society." To him, this award is not merely a personal honor - it is a recognition of Taiwan's commitment to deeply rooted medical research that connects with the world**.** He remains dedicated to advancing evidence-based innovation for healthy aging and medical imaging science.