Korean Cancer Association

Curriculum Vitae

Full name	Tae Hyun Hwang
Current Position	Endowed Cancer Chair
Department	Artificial Intelligence (AI) oncology research program
Affiliation	Mayo Clinic
Country	USA

Biography

Dr. Tae Hyun Hwang is an Endowed Cancer Chair at Mayo Clinic Florida, where he leads the Artificial Intelligence (AI) oncology research program. His research focuses on advancing the understanding of complex biological systems through the innovative integration of AI, machine learning, and computational methods with experimental approaches. This interdisciplinary work covers spatial biology, single-cell biology, digital pathology, biomarker discovery, and therapeutic development, including immunotherapy and cellular therapy strategies.

A significant aspect of Dr. Hwang's research involves the development and analysis of 3D tumor atlas models at subcellular-resolution. These models provide valuable insights into the tumor immune microenvironment (TIME) and its complex role in various cancer types. By deciphering the relationships between cellular and molecular components, his comprehensive approach guides the identification of novel biomarkers and informs the development of personalized therapeutic interventions, including cutting-edge immunotherapies and cellular therapies such as CAR-T/NK cell therapy.

Utilizing the power of AI, machine learning, and computational methods in harmony with robust experimental approaches, Dr. Hwang's research is at the forefront of enhancing our understanding of multifaceted biological systems. His ultimate objective is to revolutionize cancer treatment by formulating personalized therapies that enhance patient outcomes.

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