

發展針對家族性阿茲海默症的基因治療策略

Development of Genome-editing Strategy for Familial Alzheimer's Disease Therapy

簡歷

Biography

首席研究員 *Principal Investigator*



葉玉如教授

香港科技大學校長

晨興生命科學教授

香港神經退行性疾病中心 中心主任

葉玉如教授是國際知名的神經生物學家，在分子神經科學領域的研究成就卓越。她的研究主要集中於探究阿爾茲海默症等神經退行性疾病的病因和研發新型藥物。她將多組學分析整合到人體和功能研究中，為阿爾茲海默症生物標誌物的發現和治療靶點的開發作出了開創性的貢獻。

葉教授現任香港科技大學校長、晨興生命科學教授、分子神經科學國家重點實驗室主任，同時擔任香港神經退行性疾病中心主任。她一直致力於將科研成果轉化為具影響力的科技創新，以及培育人才。

葉教授的研究成果獲得了科學界的廣泛認可。她在頂尖國際學術期刊上發表了超過 320 篇論文和綜述，文獻被引用逾 44,000 次（谷歌學術），並擁有 70 項國際科技發明專利。葉教授還獲選為中國科學院院士、美國國家科學院外籍院士、美國人文與科學院外籍院士、世界科學院院士和香港科學院創院院士。她目前亦擔任世界經濟論壇「達沃斯•阿爾茨海默症協作組織」

領導小組成員。葉教授先後獲頒多個國內外重要學術獎項，包括國家自然科學獎、歐萊雅-聯合國教科文組織「世界傑出女科學家成就獎」及被《自然》科學雜誌選為中國科學之星。

Prof. Nancy IP

President, HKUST

The Morningside Professor of Life Science

Center Director, HKCeND

Prof. Nancy Ip is a world-renowned neuroscientist and internationally recognized for her pioneering research in molecular neuroscience. Her research interests focus on understanding the causes of and developing novel drugs for neurodegenerative diseases including Alzheimer's disease. By integrating multi-omics analysis in human and functional studies, she has contributed to the discovery of diagnostic biomarkers and therapeutic targets of Alzheimer's disease.

Prof. Ip is the President, The Morningside Professor of Life Science, and the Director of the State Key Laboratory of Molecular Neuroscience at The Hong Kong University of Science and Technology (HKUST). She is also the Director of Hong Kong Center for Neurodegenerative Diseases (HKCeND). She is well-known for her commitment to transforming research into impactful innovations and nurturing talents.

As a highly accomplished researcher, Prof. Ip has published over 320 scientific papers with more than 44,000 citations (Google Scholar), and holds 70 patents. She has been elected to the Chinese Academy of Sciences, the US National Academy of Sciences, the American Academy of Arts and Sciences, the World Academy of Sciences, and the Hong Kong Academy of Sciences. She currently serves as a Member of the Leadership Group of the Davos Alzheimer's Collaborative. Furthermore, Prof. Ip is the recipient of numerous awards and honors, including the National Natural Science Awards, the L'OREAL-UNESCO for Women in Science Award, and the 10 Science Stars of China by Nature.

負責人 *Person-in-charge*



葉翠芬博士

香港神經退行性疾病中心首席科學家

葉翠芬博士於 1998 年獲得香港科技大學生物學博士學位，師承葉玉如教授。她早年的重點研究是探索神經營養因子在神經肌肉接頭形成和神經損傷後的作用。近年，她專注於藥物研發，開發促進神經元存活和可塑性的小分子及藥用草藥提取物。葉博士和她的團隊透過針對靶標的生物活性和相應疾病模型篩選平台，研發中草藥化合物和方劑作為神經退行性疾​​病及神經系統疾病的新型治療策略。此外，葉博士在國際著名期刊上發表了 70 多篇研究論文，並擁有 35 項科技發明專利。

關於香港神經退行性疾病中心

香港神經退行性疾病中心 (<https://www.hkcend.org/zh/>) 獲香港特區政府「InnoHK 創新香港研發平台」計劃的支持。中心利用前沿科學的力量，研發神經退行性疾病的新型診斷工具和治療策略，致力將科研成果轉化。中心以神經生物學家葉玉如教授帶領的香港科技大學分子神經科學國家重點實驗室的開創性研究發現為基礎，與倫敦大學學院和史丹福大學建立了跨院校、跨學科的科研合作。中心匯聚了神經科學、幹細胞生物學和人工智能領域的傑出科學家，共同推動尖端研究，以科技突破和革新來造福全球社群。

About HKCeND

Hong Kong Center for Neurodegenerative Diseases (HKCeND) (<https://www.hkcend.org/>) was established under the government-funded InnoHK initiative. HKCeND leverages scientific advancements to drive translational impact by developing innovative diagnostic tools and therapeutic strategies for neurodegenerative diseases. Expanding on the pioneering research conducted at HKUST's State Key Laboratory of Molecular Neuroscience, led by neuroscientist Prof. Nancy Ip, HKCeND has fostered interdisciplinary R&D collaborations with University College London and Stanford University. The Center has assembled distinguished scientists in the fields of neuroscience, stem cell biology, and artificial intelligence to propel cutting-edge research, with the goal of achieving promising breakthroughs that enhance and revolutionize the lives of people worldwide.