

## 國立清華大學第十一屆傑出產學研究獎得獎人簡介

工程與系統科學系 曾繁根教授



曾教授主要的研究方向在奈微米生醫光機電系統之設計、製造、積體化與應用，系統整合了包含奈微米感測器，奈微米流體裝置，以及奈微米光電元件等。近年所專注的工作包含三個重要的系統，「含癌症標誌蛋白及循環癌細胞的快速篩檢」、「三維細胞組織工程」，以及「微奈米液珠之操控與醫學應用」等領域，共發表了約 234 篇國際論文，引用數超過 4568 次。

曾教授近 5 年以主持人身分執行 29 項產學合作，技轉金額超過千萬，期間更獲證超過 20 項專利。合作單位為國內中小企業，以及臺大醫院、國衛院、北榮、長庚等醫學院合作。

曾教授目前為 ASME Fellow，在產學與學術上的傑出表現備受肯定，獲得許多重要獎項，包括未來科技獎 ((2024)、國家新創精進獎(2023)、兩度獲得國家新

創獎 (2020 年, 2014 年與 2020 年北醫潘力誠教授團隊各一次, 有庠科技論文獎 (2014 年)、也曾獲吳大猷先生紀念獎、國科會傑出學術研究獎 (2005, 2010) 等殊榮, 努力備受肯定。

Prof. Tseng's research interest include Lab on a Chip, Micro Fluidics, Biosensors, Fuel Cell Systems, Nano Hydrogen Storage. His recent research primary focuses on Liquid Biopsy: Cancer Diagnosis and Drug Screeing, 3D cells Assembly for tissue engineering and Nano/micro droplets manipulation. He has published over 234 papers, accumulated over 4568 citations.

In the last five years, Prof Tseng has engaged in 29 industry-academia collaborations projects, including collaborations with National Taiwan University Hospital, Taipei Veteran General Hospital, Chang Gung Memorial Hospital , and National Health Research Institute. He makes technology transfer exceeding ten million dollars, and obtained more than 20 patents during this period.

Professor Tseng' is currently an ASME Fellow. His outstanding performance in both industry-academia and academia has earned him numerous prestigious awards, including the Future Tech Award(2024), National Innovation Award, (2020, 2014, respectively), Y. Z. Hsu Scientific Paper Award (2014) , Ministry of Science and Technology's Outstanding Research Award, and Mr. Wu, Da-Yo Memorial Award.