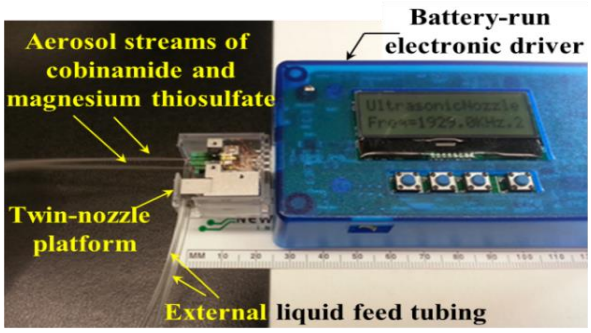
技術發表來賓簡介

1. 蔡振水院士- 創新口袋式超音波呼吸治療模組

蔡院士曾任加州大學爾灣(Irvine) 校區電機電腦系傑出教授兼系主任，以及中研院應用科學及工程研究中心首任主任。其所發明之創新口袋式呼吸模組（Patented Pocket-size Nebulizer）具有多項優越之功能及演進為智慧呼吸模組（Intelligent Nebulizer）之潛力，並且易以低成本量產。核心技術在於將藥物霧化以及噴嘴列陣（Nozzle Array）。操作原理係將液態之藥物轉變為氣態（即所謂霧化）以產生細小之顆粒（Aerosol），而由病患者經由口腔或鼻孔吸入肺部或腦部相關部位或血液微細管。



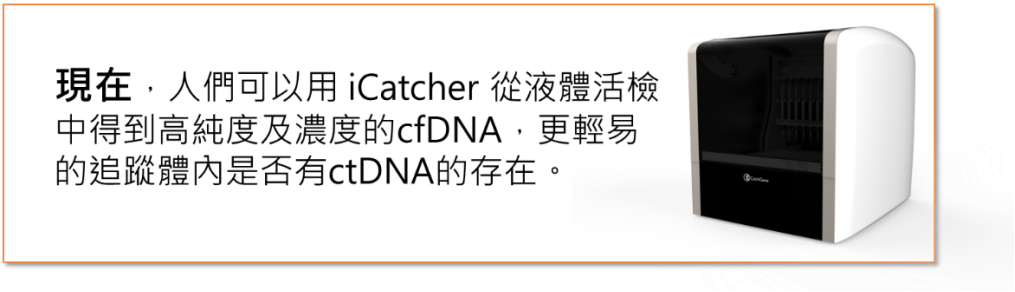
口袋式呼吸模組 Prototype 使用電子控制以同時霧化兩項研發中之藥物達成合藥治療法（Combination Therapy）解除氰化物（Cyanide） 中毒之較高療效

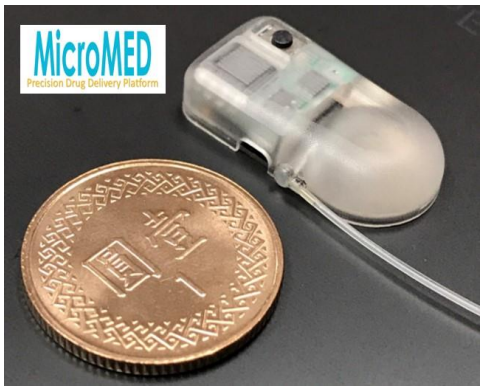
2. 開啟基因 CatchGene Co., Ltd.
尋找合作方向：通路商開發。

Catch Genes from Liquid Biopsy is what we are doing now.

Founded in 2016, CatchGene Co., Ltd. groups experts from different fields, including molecular biology, electrical engineering, software engineering and mechanics. We are dedicating to develop a better solution for purifying rare DNA or RNA from Liquid Biopsy.
Molecular diagnostic is a rapid developing field. With more and more biomarker, nowadays people are able to predict, diagnostic or tracing many diseases. Many people are focusing on how to increase the sensitivity of detection reagents or devices. But actually, the most important step is to catch DNA/RNA first. Because if we can’t catch those genes, even the detection method is extreme sensitive, we still can’t detect it. CatchGene is focusing on get higher quality of

DNA/RNA from Liquid Biopsy and Solid Biopsy because we know that DNA/RNA purification is the first step of achieving “Precision Medicine”.
Have a vision to overcome the bottle neck of Precision Medicine, we developed the iCATCHER system which able to purify cfDNA, miRNA from up to 5 ml Liquid Biopsy and extract high integrity DNA/RNA from FFPE tissue sample. Hope the solution will put some efforts on Cancer prediction, Cancer diagnostic and Cancer tracing. To makes a better life for human being.



3. 潔靈生醫科技股份有限公司 Micromed Co., Ltd.
尋找合作方向：通路、藥廠及 CRO 連結、醫療團隊連結。

擁有一種創新而強大的生醫微機電系統微型幫浦藥物傳遞裝置平台技術，提供一個先進的微幫浦客製化服務，可依照各類藥物開發客戶的需求，設計其藥物專屬之微輸送裝置。我們的產品、服務和商業模式非常靈活，從設計、原型、製造、訂單數量、上市速度、小型團隊到大型項目、學術界到藥廠客戶，提供完整的產品線，以滿足我們的製藥客戶的藥物傳遞實際需求。