

**Topic: From Bench to Business** - A Pharmacokinetic Platform for Preclinical Evaluation of Therapeutic Cells.

**Speaker: Dr. Long-Jyun Su/CEO of LuminX Biotech**

**Abstract:**

This lecture will introduce the current development of cell therapy in Taiwan, and share how we can apply what we have learned in the laboratory to the industry to meet the unmet needs of the cell therapy industry. I will also share what the people and things that I met during my PhD progress, and how to translate the academic technique from bench to business, and establish a new startup company-**LuminX Biotech**.

**LuminX Biotech** provides “A Pharmacokinetic Platform for Preclinical Evaluation of Therapeutic Cells.” which can transition a potential therapy from the research stage to advanced clinical and commercial applications to save lives. Most breakthrough therapy designations are granted to cell therapies. These therapies face great challenges in pre-market certification, owing to the difficulty of pre-clinical data collection, such as Bio-distribution (Bio-D), pharmacokinetics (PK) and pharmacodynamics (PD). With the help of an innovative LuminX cell-tracking method, live cells can be detected through fluorescence, thus making them easier to track for an extended period of time.

**LuminX Platform** has four significant advantages:

1. LuminX Tracking Kits with eternal red fluorescence signal.
2. Global Positioning System(GPS) of cells *in vivo*.
3. Bio-D/PK/PD of transplanted-cells *in vivo*.
4. Shorten R&D time/reduce costs.

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**講題: From Bench to Business - A Pharmacokinetic Platform for Preclinical Evaluation of Therapeutic Cells.** (細胞藥物動力學檢測平台)

**講者: 蘇隆峻博士/路明思生技-執行長**

**演講摘要(中英文):**

此次演講會分享台灣現在細胞治療發展的近況，並介紹如何將我們在實驗室的所學應用到產業界，來滿足細胞治療產業還沒被滿足的需求。也會分享我在求學階段所遇見的人事物，是在怎樣的因緣際會下會踏上創業這條路，並成立新創公司-路明思生技。

**LuminX Biotech (路明思生技)** 提供細胞療法臨床前開發驗證平台，加速細胞產品的開發，目前細胞產品缺乏準確快速的臨床前的細胞藥物動力學驗證，當細胞作為藥物 (Cell Drugs) 進入生物體後，如何有效地進行細胞標定、定位、定量、確效以及細胞動力學分析等，都是目前所面臨的挑戰。LuminX 開發一站式細胞藥物動力學檢測平台，其核心技術為 LuminX 螢光奈米鑽石標定方法，應用於開發細胞追蹤試劑，提供細胞藥物注入生物體後，細胞 GPS 體內定位、細胞於體內生物分佈 (biodistribution) 分析、建立細胞藥物動力學與藥理分析平台，解決細胞治療在臨床前細胞藥物動力學評估的問題。

**LuminX Biotech (路明思生技)** 平台有四大優點：

1. LuminX Tracking Kits with eternal red fluorescence signal.
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