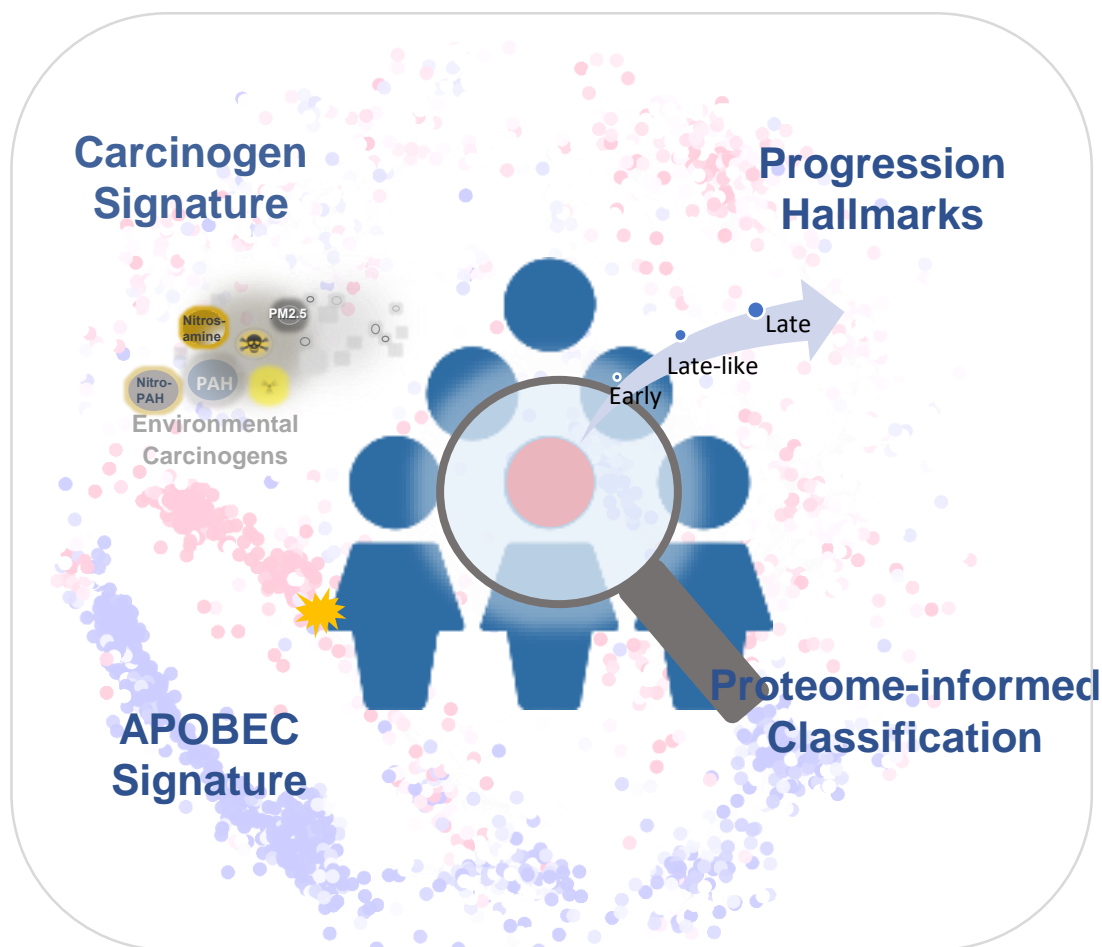


# 開發癌症精準醫療之生物標記及 體外檢驗試劑原型

## 主要領域

## 精準醫療/癌症治療

- **產品/技術簡介**
  - 癌症深度蛋白基因體及臨床資訊大數據庫 (肺癌及乳癌)
  - 國際標準化之深度蛋白基因體整合分析平台
  - 癌症標記蛋白質譜檢測技術
- **應用: 疾病檢測、生物標記篩檢與開發**
  - 篩選早期癌症生物標記與轉移指標
  - 開發體外檢驗試劑原型及預測早期高風險病人用藥
  - 預測藥物治療反應
- **優勢**
  - 東亞特色之癌症深度蛋白基因體大數據庫
- **專利現況**
  - 早期肺腺癌之蛋白體分期診斷方法 (申請中)
  - 以體細胞突變印記方法或試劑進行早期肺腺癌檢測 (申請中)



# Development of Biomarkers and In-vitro Testing Prototypes for Cancer Precision Medicine

## Research Area

## Precision Medicine/ Biomarker Discovery

### ■ Technical statement

- High quality proteogenomic big data and clinical data for lung and breast cancer
- Internationally standardized platform of deep proteogenomic analysis
- Mass spectrometry-based detection assay for cancer biomarker

### ■ Applications: *Disease detection, biomarker screening and development*

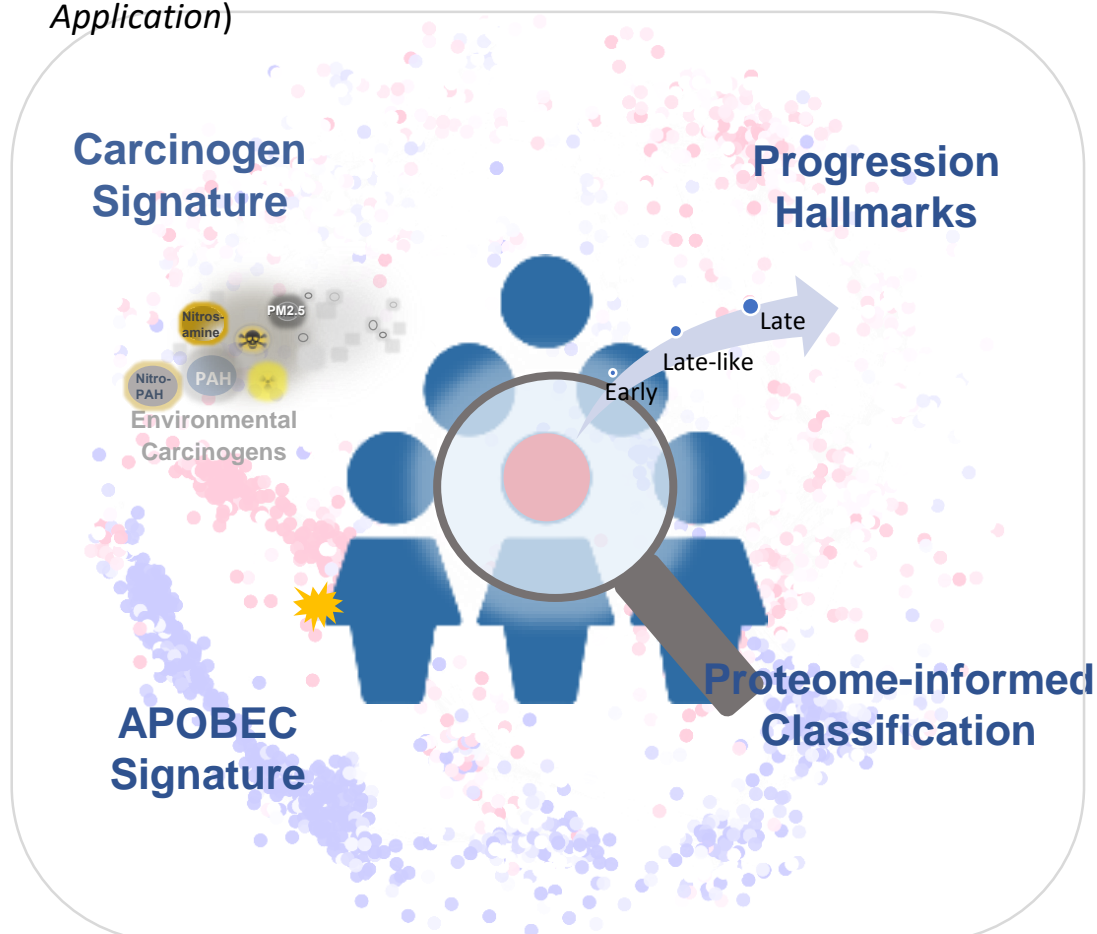
- Screening and validation of biomarker candidates for early detection and metastasis
- Development of *in-vitro* testing prototypes and predictive indication for treatment of high risk early stage patients
- Prediction of drug response

### ■ Advantages

- Comprehensive cancer proteogenomic landscape for patients of East Asia

### ■ Patent status

- Proteomic classification for early stage lung adenocarcinoma (*In Application*)
- Somatic mutational signatures for early detection of lung adenocarcinoma (*In Application*)



## 計畫成員 Member



Yu-Ju Chen



Yi-Ju Chen



Kuen-Tyng Lin



Sheng-Wen Chen



Ya-Hsuan Chang



Chien-Yu Lin



Wen-Hsin Chang



Yi-Jing Hsiao



Hao-Chin Yang



Hao Fang



Hsing-Jui Tsai

- **Contact person:** Prof. Yu-Ju Chen
- **TEL:** +886-2-55728660
- **Email:** [yujuchen@gate.sinica.edu.tw](mailto:yujuchen@gate.sinica.edu.tw)