



發明名稱

發明人：陳林祈 教授

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簡 歷：

2009/08 至 2013/07 國立台灣大學生物產業機電工程學系副教授

2005/08 至 2009/07 國立台灣大學生物產業機電工程學系助理教授

市場及需求：

前列腺癌臨床篩檢

技術摘要(含成果)：

利用新穎單微珠篩選技術針對前列腺生物標記分子(α -甲基酰基輔酶 A 消旋酶)進行相關辨識分子(適體)之篩選。本研究是目前唯一透過螢光酶聯適體檢測技術直接針對 α -甲基酰基輔酶 A 消旋酶進行高專一性高敏度辨識分析之感測平台。

優勢：

相較於市售 α -甲基酰基輔酶 A 消旋酶抗體檢測技術。本平台基於適體序列具易合成、低成本、具化學穩定性且易進行化學修飾…等特性。使本平台能夠提升 α -甲基酰基輔酶 A 消旋酶在前列腺臨床篩檢的應用性。

競爭產品：

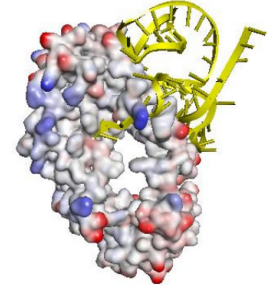
酵素免疫分析(ELISA)式 α -甲基酰基輔酶 A 消旋酶檢測平台。

聯絡方式(請不用填)：臺大產學合作總中心

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請放任一代表照片

(不可揭露技術內容)





Title of Invention

(Below is limited to 1-page only; be careful not to disclose vital technology content. Please delete these words when the document is finished)

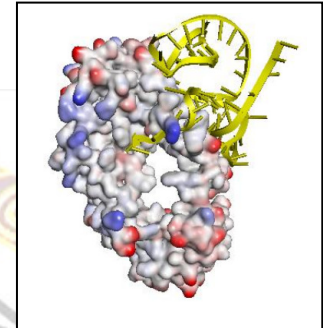
PI : Prof. Lin-Chi Chen

Department of Bio-Industrial Mechatronics Engineering,
National Taiwan University.

Experience:

2009/08-2013/07

Associate Professor, Department of Bio-Industrial Mechatronics
Engineering, National Taiwan University.



2005/08-2009/07

Assistant Professor, Department of Bio-Industrial Mechatronics Engineering, National
Taiwan University.

Market Needs:

Prostate cancer diagnostics.

Our Technology:

We used a novel single-bead selection method to screen out new anti-alpha-methylacyl-CoA racemase (AMACR), a prostate cancer biomarker, aptamers. The aptamers can specifically detect the AMACR. This is a first platform that used fluorescent enzyme linked aptamer assay (ELAA) for ultrasensitive, specific AMACR detection.

Strength:

Compare to an anti-AMACR antibody, the aptamer has several advantages, which are easy to generate, low production cost, chemically stable, easy to chemically modified, and so on. Based on the features of the aptamer, the ELAA-based platform can promote the applicability of AMACR on prostate cancer diagnostics.

Competing Products:

ELISA AMACR

Contact (do not need to fill out):

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