

優秀創新科技及科研作品

Outstanding Science & Technology Innovation Project

研究傳統中醫染銀診斷法的反應機理及其作為慢性腎衰竭的快速檢查

Mechanism of Chinese Silver Staining Diagnosis and Its Application as Rapid Test for Chronic Renal Failure

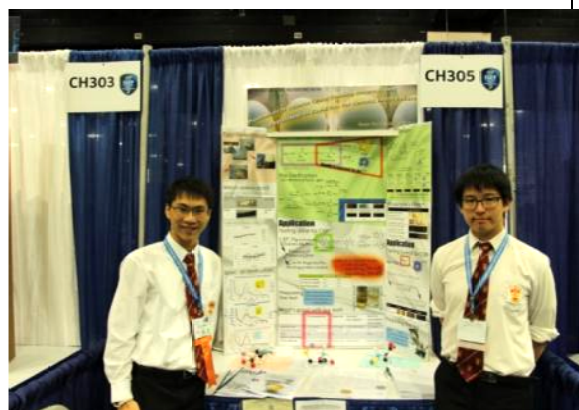
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作品簡介 Project Introduction

作品以研究傳統中醫染銀診斷法的反應機理為題，證實了不同的酸鹼環境下，蛋白中的半胱氨酸會以不同方式與銀反應；同時推陳出新，以該反應機理為基礎，進一步發展為慢性腎衰竭的快速檢查。

The mechanism of Traditional Chinese Silver Staining Diagnosis has been investigated and discovered that cysteine in egg white demonstrated different chelation modes under different pH environment. On top of the understanding of the mechanism of this reaction, a rapid test for Chronic Renal Failure has been developed.



L: 陳帝羲 Chan Tai Hei

R: 方爾海 Fang Er Hai

主要獎項 Major Awards

- 國際天文學聯會把編號 31298, 31312 小行星分別命名「陳帝羲星」和「方爾海星」(2014)
International Astronomical Union named the minor planet 31298, 31312 respectively as “Chan Tai Hei” and “Fang Er Hai”(2014)
- 第 65 屆英特爾國際科學與工程大獎賽 – 化學項目一等獎、學科最優秀項目大獎、菲利普斯瑞奇紀念獎
The 65th Intel International Science and Engineering Fair : First Place Award in the Category of Chemistry, Intel ISEF Best of Category Award (Chemistry), The Philip V. Streich Memorial Award
- 第 27 屆全國青少年科技創新大賽 – 英特爾英才獎、一等獎、江蘇省人民政府青少年科技創新培源獎、廣東科學中心專項獎
The 27th China Adolescents Science & Technology Innovation Contest - Intel Foundation Young Scientist Award, First Place Award, The Youth Science and Technology Innovation Pei-yuan award of Jiangsu Provincial Government, The Special Award of Guangdong Science Center
- 香港青少年科技創新大賽 2012-2013 – 化學及材料學項目一等獎
First Place Award in the category of Chemistry and Materials in Hong Kong Youth Science & Technology Innovation Competition 2012-2013