

Nomination for LCGC's 2012 Emerging Leader Award

Candidate: **Siew Hua Gan**

Siew Hua Gan received her Ph.D. in pharmacology from Universiti Sains Malaysia, in Kubang Kerian, Kelantan, Malaysia, in 2003. Gan is currently the director of the Human Genome Center at the School of Medical Sciences of Universiti Sains Malaysia.

Gan has developed many new methods using both high performance liquid chromatography and gas chromatography–mass spectrometry. The methods are for the determination of various drugs such as tramadol, repaglinide, propranolol, arabinoside-C, doxorubin, warfarin, paraquat, amphetamine-type stimulants, and imatinib, as well as their metabolites, in human serum, plasma, and urine. Some of the methods were capable of detecting several of these drugs simultaneously, and involved cutting edge technologies such as ultra high performance liquid chromatography, solid phase microextraction, and chiral separation. Gan is currently embarking on research that involves separating compounds from various natural products.

As a result of her extensive chromatographic work on tramadol, Gan was appointed to the panel of experts for tramadol at the teaching hospital at Universiti Sains Malaysia. The Malaysian Department of Standards (SIRIM) has appointed Gan to the committee for working papers related to nanotechnology.

To date, Gan has published 72 papers in international peer-reviewed journals, more than half of which are in the field of separation science, with a total impact factor of 122.88. She has also published a book as well as a book chapter. She has won many publication awards from the Universiti Sains Malaysia and garnered the Best Research Presentation Award in 2009. She also has won several “Best Lecturer Awards” as well as “Excellent Service Award” at the Universiti Sains Malaysia. During her undergraduate years, she was also awarded the “Excellence in Pharmacy Practice Award” from Liverpool John Moores University (Liverpool, UK).

Gan is on the editorial board of several journals, including the *Electronic Physician*, *World Journal of Medical Genetics* and *Journal of Gastroenterology and Hepatology*. To date, she has reviewed more than 80 papers for various international journals. She has also been a reviewer for the *Journal of Chromatography B* since 2001, and won a “Top Referee of the Year” award from *Analytica Chimica Acta* in 2008. She also has been invited to speak at many international conferences in Malaysia and overseas.

Gan has been described as “well recognized in the field of separation science” and as carrying out work that “helps provide new services to local hospitals and on the whole, benefits mankind.”