

CHAU Siu Leung

B.Sc., M.Sc., MPhil

Gender: Male

Education

- 09.2014-09.2016** **Master of Philosophy in Chemistry**
Department of Chemistry - The University of Hong Kong
Supervisor: **Dr. Kwan Ming Ng**
Thesis title: *Gold nanoparticles assisted laser desorption/ionization mass spectrometry: Fundamental study and analytical application.*
Method development for active ingredients detection in pharmaceutical product using gold nanoparticles assisted LDI-MS (MALDI-TOF/TOF **MS, Bruker Daltonics**). Some analytical instruments including **Q-TOF Premier MS (Waters), UV-Vis and FT-IR** were also applied during the MPhil. study.
- 09.2013-06.2014** **Master degree in Pharmacy and Chinese Medicine (Full Time)**
School of Chinese medicine - Hong Kong Baptist University -
- 09.2009-06.2013** **B.Sc. degree in Pharmacy and Chinese Medicine (Upper Second Class Honor) School of Chinese Medicine - Hong Kong Baptist University**

Working experience

- 06.2020-Current** **Technical officer**
Hong Kong Baptist University
Responsible for Hong Kong Phenome center operation and management: Including administrative work, instrument (LC-MS/MS, Tof/TQ) operation and maintenance, technical support for research group.
- 05.2017-06.2020** **Solution sales specialist**
Waters Corporation
Application support for different analytical areas, more focus on food and environmental, metabolomics and proteomics.
Current duty is providing technical support in sample preparation and qualitative/quantitative analysis using HPLC/UPLC (**DAD/FLD/ELSD**) or LC-MS/MS (**Tof /Tandem Quadrupole MS**). Also, providing sample demonstration (Pre-sales) and customer training.
- 09.2016-05.2017** **Research Assistant**
Supervisor: **Dr. Kwan Ming Ng**
Department of Chemistry, The University of Hong Kong – Method development for solid state sample extraction
- 09.2014-09.2016** **Teaching laboratory demonstrator**
*Department of Chemistry, The University of Hong Kong- Worked in different fields of analytical chemistry including **metabolites analysis** (LC-ESI-Ion trap MS, Thermo Fisher Scientific), **heavy metal analysis** in hair sample (ICP-MS, Agilent; *Microwave digestion system*), **urine sample analysis** (GC-MS, Agilent), **phytochemical analysis** in herbal medicine (LC-UV, *Thermo Fisher Scientific*).*
- 07.2013-07.2014** **Research Assistant**
Supervisor: **Dr. Quan Bin Han**
School of Chinese Medicine, Hong Kong Baptist University – Constructed phytochemical compound database and perform pharmaceutical product analysis
- 2012-2013** **Part time project helper**
Department of Health (Chinese medicine), HKSAR - Promoted the registration of proprietary Chinese medicines.

Awards and certifications

- 2016 **Conference Grant Award for Research Postgraduate Students 2016** - The University of Hong Kong
- 2012 **Certificate of Proficiency in Putonghua** (Grade Two, Level A) - Hong Kong Polytechnic University PSC
- 2005 - 2006 **Putonghua Shui Ping Ce Shi (Credit Performance)** - Hong Kong Education Authority
- 2004-2005 **The awards of best member Of Hong Kong Red Cross YU36B** - Hong Kong Red Cross

Professional qualifications

- 2010 **Bronze medallion of Life saving**- The Hong Kong Life Saving Society
- 2010 **Certificate in First Aid** - The Hong Kong Life Saving Society
- 2010 **Certificate in Aquatic First Aid** - The Hong Kong Life Saving Society
- 2010 **Pool Lifeguard Award** - The Hong Kong Life Saving Society
- 2010 **Certificate in Acupressure in First Aid** - The Hong Kong Life Saving Society

Conference attendance:

- 1 Hong Kong Society of Mass Spectrometry (HKSMS) Symposium (2017-2019)
- 2 **64th ASMS Conference on Mass Spectrometry & Allied Topics (2016) - Poster presentation**
- 3 The 23rd Symposium on Chemistry Postgraduate Research in Hong Kong (Hong Kong Polytechnic University) **(2016) - Poster presentation**
- 4 Hong Kong Society of Mass Spectrometry (HKSMS) Symposium (2014)

List of publications

Peer-reviewed journal articles

- 1 Y.-H. Cheng, T. S. -C. Tam, **S.-L. Chau**, S. K.-M. Lai, H.-W. Tang, C.N. Lok, C.-W. Lam and K.-M. Ng
Plasmonic gold nanoparticles as multifaceted probe for tissue imaging. *Chemical Communications*, 55 (2019), 2761-2764.
- 2 **S. -L Chau**, H.-W Tang, Y. -H Cheng, C. -N Lok, and K. -M Ng.
Chemical Printing of Biological Tissue by Gold Nanoparticle-Assisted Laser Ablation." *ACS Omega*, no. 9 (2017): 6031-6038. [Cited: 1]
- 3 **S.-L. Chau**, H.-W. Tang, K.-M. Ng
Gold nanoparticles bridging infra-red spectroscopy and laser desorption/ionization mass spectrometry for direct analysis of over-the-counter drug and botanical medicines, *Analytica Chimica Acta*, 919 (2016) 62-69.[Cited: 8]
- 4 **S.-L. Chau**, Z.-B. Huang, Y.-G. Song, R.-Q. Yue, A. Ho, C.-Z. Lin, W.-H. Huang and Q.-B. Han.
Comprehensive Quantitative Analysis of SQ Injection Using Multiple Chromatographic Technologies, *Molecules* 21.8 (2016): 1092. [Cited: 3]
- 5 Y. -H. Cheng, Y. Zhang, **S.-L. Chau**, S. K. -M. Lai, H.-W. Tang, K.-M. Ng
Enhancement of Image Contrast, Stability, and SALDI-MS Detection Sensitivity for Latent Fingerprint Analysis by Tuning the Composition of Silver–Gold Nanoalloys. *ACS Applied Materials & Interfaces*, 8(43), (2016) 29668-29675. [Cited: 13]

- 6 K.-M. Ng, **S.-L. Chau**, H.-W. Tang, X.-G. Wei, K.-C. Lau, F. Ye, A.M.-C. Ng
Ion-Desorption Efficiency and Internal-Energy Transfer in Surface-Assisted Laser
Desorption/Ionization: More Implication(s) for the Thermal-Driven and
Phase-Transition-Driven Desorption Process, *The Journal of Physical Chemistry C*, 119 (2015)
23708-23720. [Cited: 17]
- 7 T.-B. Zhang, R.-Q. Yue, J. Xu, H.-M. Ho, D.-L. Ma, C.-H. Leung, **S.-L. Chau**, Z.-Z. Zhao,
H.-B. Chen, Q.-B. Han
Comprehensive quantitative analysis of Shuang-Huang-Lian oral liquid using UHPLC–
Q-TOF-MS and HPLC-ELSD, *Journal of Pharmaceutical and Biomedical Analysis*, 102
(2015) 1-8. [Cited: 16]
- 8 M. Liu, L. Tao, **S.-L. Chau**, R. Wu, H. Zhang, Y. Yang, D. Yang, Z. Bian, A. Lu, Q. Han,
H. Xu
Folding fan mode counter-current chromatography offers fast blind screening for drug
discovery. Case study: Finding anti-enterovirus 71 agents from Anemarrhena asphodeloides,
Journal of Chromatography A, 1368 (2014) 116-124. [Cited: 11]
- 9 M.-S. Liu, **S.-L. Chau**, D.-L. Ma, C.-H. Leung, Z.-X. Bian, A.-P. Lu, H.-X. Xu, Q.-B. Han
Using two-phase solvent systems for sample pretreatment increases yield of counter-current
chromatography: Anemarrhena asphodeloides saponins, a case study, *Separation and
Purification Technology*, 138 (2014) 138-143. [Cited: 4]