

Tony Kung Ming SHING, The Chinese University of Hong Kong (CUHK)

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### Summary of Career

10/1996– present – Professor, Department of Chemistry, CUHK, Hong Kong

08/2011– 07/2014 – Department Chairman, Department of Chemistry, CUHK, Hong Kong

04/1993 – 09/1996 – Senior Lecturer, Department of Chemistry, CUHK, Hong Kong

08/1990 – 03/1993 – Lecturer, Department of Chemistry, CUHK, Hong Kong

10/1984 – 07/1990 – “New Blood” Lecturer, Department of Chemistry, University of Manchester, UK

09/1982 – 09/1984 – Postdoctoral Fellow (supervisor: Prof. G.W.J. Fleet), University of Oxford, UK

09/1981 – 08/1982 – Postdoctoral Fellow (supervisor: Prof. A.S. Perlin), McGill University, Canada

### Summary of Education

Ph.D. in Carbohydrate Chemistry, 09/1978–08/1981, Birkbeck College, University of London

M.Sc. (Distinction) in Analytical Chemistry, 09/1977–08/1978, Imperial College, University of London

B.Sc. (Hons.) in Chemistry with Biology, 09/1973–08/1976, University of Hong Kong

### Publications Summary

Total number of publications: 121

Books/book chapters: 6 book chapters

### Research Area Summary

The applicant was lecturer in chemistry at University of Manchester for 6 years before moving to Chinese University of Hong Kong in August 1990. He has been carrying out independent research in natural product synthesis for the past 29 years using carbohydrates, quinic acid, and simple terpenes as chiral starting materials. Enantio-selective/specific syntheses of 45+ natural products have been accomplished.

### Five Representative Publications

1. T.K.M. Shing, Wai-Lung Ng, J. Y.-W. Chan and C. B. S. Lau, “Design, Syntheses, and SAR Studies of Carbocyclic Analogues of Sergliflozin as Potent Sodium-Dependent Glucose Cotransporter 2 Inhibitors”, *Angew. Chem. Int. Ed.* 2013, **52**, 8401-8405.

2. T. K. M. Shing, K. H. So, “Facile and Enantiospecific Syntheses of (6*S*,7*R*)-6-Chloro-7-benzyloxy-, (7*S*)-Halo-, (7*S*)-Hydroxy-cocaine and Natural (–)-Cocaine from D-(–)-Ribose”, *Org. Lett.*, 2011, **13**, 2916-2919.

3. T. K. M. Shing, K. H. So and W. S. Kwok, “Carbocyclization of Carbohydrates: Diastereoselective Synthesis of (+)-Gabosine F, (–)-Gabosine O, and (+)-4-*epi*-Gabosine O”, *Org. Lett.*, 2009, **11**, 5070-5073.

4. T. K. M. Shing, Y. Y. Yeung, “Total Synthesis of (–)-Samaderine Y from (S)-(+)-Carvone” *Angew. Chem. Int. Ed.* 2005, **44**, 7981-7984.

5. T. K. M. Shing, C. S. K. Kwong, A. W. C. Cheung, S. H.-L. Kok, Z. Yu, J. Li, and C. H. K. Cheng “Facile, Efficient, and Enantiospecific Syntheses of 1,1’-*N*-linked-pseudodisaccharides as a New Class of Glycosidase Inhibitors.” *J. Am. Chem. Soc.* 2004, **126**, 15990-15992.

### Other Indicators of Esteem

- 2 Asian Core Program (ACP) Lectureship Awards from Thailand and Korea (12/2011).
- WuXi Apptec Life Science and Chemistry Third Award, China (12/2010).
- 2 Asian Core Program (ACP) Lectureship Awards from Japan and China (12/2009).
- Chairman, The Royal Society of Chemistry, Hong Kong Section (2008-present).
- Croucher Senior Research Fellowship, Hong Kong (03/2008).
- Asian Core Program (ACP) Lectureship Award from Taiwan (10/2006).
- Chartered Scientist (CSci), The Royal Society of Chemistry and The Science Council, UK (2004).
- D.Sc. degree awarded by University of London for contribution in Organic Synthesis (11/2002).
- Visiting Professor, Sophia University, Tokyo. (05–07/2015).
- Adjunct Professor, Xiamen University, China. (03–06/2013).
- Visiting Professor, Institute of Chemistry Research, Kyoto University (06–08/2010).
- Visiting Scholar, Department of Chemistry, Tokyo Institute of Technology (04–05/2009).
- Visiting Associate Professor, University of California, Irvine, U.S.A. (01–04/1990).
- Faculty Exemplary Teaching Award 2004 and 2012, The Chinese University of Hong Kong.
- Chartered Chemist (CChem) and Fellow of the Royal Society of Chemistry (FRSC) (1995)
- Member, International Advisory Panel, School of Chemistry, Bristol University, UK (2006-present).
- Supervision of 22 PhD graduates.