

Wong Tak Hin (Dicky) – CV

Personal

Name Tak Hin WONG (Dicky)
Language English (native), Cantonese (native), French (A2/B1), German (A1), Mandarin (native)
Place of Birth Hong Kong

Address

Chemin de la Ramière 22, 1028 Prévèrenge, Switzerland
Email: tak.wong@epfl.ch

Education

2022 – Now Ph.D. in Chemistry (Advisor: Prof. Kay Severin)
École Polytechnique Fédérale de Lausanne (Lausanne, Switzerland)
Needham Scholar (2022 – Now)

2020 Exchange Student (Advisor: Prof. Erick M. Carreira)
ETH Zürich (Zürich, Switzerland)
Kanya Lee Scholarship (2019-2020)

2017-2021 B.Sc. (1st Class Honour) in Chemistry (International Research Enrichment Track) (Advisor: Prof. Yong Huang)
Hong Kong University of Science and Technology (Hong Kong)
HKSAR Government Scholarship Fund (2019-2020)

Employment

08/2021 – 07/2022 Junior Research Associates (Advisor: Prof. Wai Lung Billy Ng)
School of Pharmacy, Faculty of Medicine
Chinese University of Hong Kong (Hong Kong)

06/2021 – 08/2021 Honourary Junior Research Assistant (Advisor: Prof. Wai Lung Billy Ng)
School of Pharmacy, Faculty of Medicine
Chinese University of Hong Kong (Hong Kong)

Honours and Awards

2022-2026 Joseph Needham Merit Scholarship
2020 Kanya Lee Scholarship
2020 HKSAR Government Scholarship Fund
2018-2019 Dean's List of School of Science (2018-19 Fall, Spring) (HKUST)
2018 Undergraduate Research Opportunities Program – Full Stipend (HKUST)
2017 Business Flyer 2017 – Overall Best Performance (Hong Kong Outstanding Students' Association)
2017 Wu Chien Shiong Science Camp 2017 – Bronze medal (7/100)
2017 Xueersi Chinese National Physics Olympiad – Absolute winner

Publications

1. P. Varava, **T. H. Wong**, Z. Dong, A. Gitlina, A. Sienkiewicz, W. Feuerstein, R. Scopelliti, F. Faraci-Tirani, K. Severin. "Head-to-Tail Dimerization of *N*-Heterocyclic Diazoolefins." *Angew. Chem. Int. Ed.* **2023**, e202303375
2. X. Jiang[†], X. He[†], J. Wong[†], S. Scheeff, Sam C. -K. Hau, **T. H. Wong**, Y. Qin, C. H. Fan, B. Ma, N. L. Chung, J. Huang, J. Zhao, Y. Yan, M. Xiao, Tony K. C. Hui, Z. Zuo, William K. -K. Wu, H. Ko, Kim H. -M. Chow, Billy W. -L. Ng. "Lactone-to-Lactam Editing Alters the Pharmacology of Bilobalide." *JACS Au* **2024**, *4*, 3537-3546 [Highlighted in *Synfacts* **2024**, 1091]
3. (Submitted) **T. H. Wong**, P. Varava, F. Faraci-Tirani, R. Scopelliti, K. Severin. "Ambiphilic Reactivity of Iridium Complexes with *N*-Heterocyclic Vinylidene Ligands."

- (Manuscript in preparation) **T. H. Wong**, D. W. Chen, F. Faraei-Tirani, R. Scopelliti, K. Severin. "Synthesis and Reactivity of a CAAC-Derived N-Heterocyclic Olefin."
- (Manuscript in preparation) **T. H. Wong**, P. Varava, F. Faraei-Tirani, K. Severin. "Intra/Inter-Ligand C-H Activation in Reactions of N-Heterocyclic Diazoolefin with Iridium and Rhodium Complexes."

Skills

- Organic/organometallic synthesis and purification techniques
- Use of glovebox and maintenance
- NMR (including 2D NMR), LC/GCMS, IR, CV and EPR techniques and analysis
- Photochemical reactor
- Use of special gas line and maintenance
- Solvent system maintenance
- Basic DFT computations (Gaussian)
- SciFinder and Reaxys database searching
- ChemDraw

Conference

- T. H. Wong**, P. Varava, F. Faraei-Tirani, K. Severin
Poster: Head-to-Tail Dimerization of N-Heterocyclic Diazoolefins
SCS Fall Meeting 2023, Bern, Switzerland (24-25/8/2023)
- T. H. Wong**, P. Varava, F. Faraei-Tirani, K. Severin
Poster: Head-to-Tail Dimerization of N-Heterocyclic Diazoolefins
4th International Symposium on Carbene and Nitrene Chemistry 2023, Amsterdam, the Netherlands (25-28/7/2023)
- T. H. Wong**
Poster: Textile Wastewater Treatment by Soybean Seedcoat Peroxidases [2nd Runner-up Presentation and Poster Prize]
Wu Chien-Shiong Education Foundation 2017, Changhua, Taiwan (31/7-5/8/2017)

Acknowledged Contributions

- [For the synthesis of reagent 6] T. Sandmeier, N. Sievertsen, E. M. Carreira. "Derailed Ohira-Bestmann Reaction of γ,δ -Unsaturated Aldehydes for the Stereoselective Synthesis of Cyclopenta[c]pyrazoles." *Helv. Chim. Acta.* **2020**, *103*, e2000058
- [For the contribution in CV measurement] D. Cavalli, J. Waser. "Organic Dye Photocatalyzed Synthesis of Functionalized Lactones and Lactams via a Cyclization-Alkynylation Cascade" *Org. Lett.* **2024**, *26*, 4235-4239

Reference

- Prof. Dr. Kay Severin (EPFL) email: kay.severin@epfl.ch
- Prof. Wai Lung Billy Ng (Chinese University of Hong Kong) email: billyng@cuhk.edu.hk
- Prof. Yong Huang (Hong Kong University of Science and Technology) email: yonghuang@ust.hk
- Prof. Dr. Erick M. Carreira (ETH Zürich) email: erickm.carreira@org.chem.ethz.ch