

Stanford

Haoqing Wang

Postdoctoral Scholar, Molecular and Cellular Physiology

Bio

PROFESSIONAL EDUCATION

- BSc, Hong Kong University of Science and Technology , Molecular Biomedical Sciences (2013)
- PhD, California Institute of Technology , Biochemistry and Molecular Biophysics (2019)

STANFORD ADVISORS

- Brian Kobilka, Postdoctoral Faculty Sponsor

LINKS

- <http://wanghaoqing.github.io>: <http://wanghaoqing.github.io>

Publications

PUBLICATIONS

- **Structure-based Evolution of G protein-biased mu-opioid Receptor Agonists.** *Angewandte Chemie (International ed. in English)*
Gmeiner, P., Wang, H., Hetzer, F., Huang, W., Qu, Q., Meyerowitz, J., Kaindl, J., Hubner, H., Skiniotis, G., Kobilka, B. K.
2022
- **Foldable detergents for membrane protein study: Importance of detergent core flexibility in protein stabilization.** *Chemistry (Weinheim an der Bergstrasse, Germany)*
Ghani, L., Kim, S., Wang, H., Lee, H. S., Mortensen, J. S., Katsube, S., Du, Y., Sadaf, A., Byrne, B., Guan, L., Loland, C. J., Kobilka, B. K., Im, et al
2022
- **Glyco-steroidal amphiphiles (GSAs) for membrane protein structural study.** *ChemBiochem : a European journal of chemical biology*
Ehsan, M., Wang, H., Katsube, S., Munk, C. F., Du, Y., Youn, T., Yoon, S., Byrne, B., Loland, C. J., Guan, L., Kobilka, B. K., Chae, P. S.
2022
- **Sequential immunization of macaques elicits heterologous neutralizing antibodies targeting the V3-glycan patch of HIV-1 Env** *SCIENCE TRANSLATIONAL MEDICINE*
Escolano, A., Gristick, H. B., Gautam, R., DeLaitch, A. T., Abernathy, M. E., Yang, Z., Wang, H., Hoffmann, M. G., Nishimura, Y., Wang, Z., Koranda, N., Kakutani, L. M., Gao, et al
2021; 13 (621): eabk1533
- **Maltose-bis(hydroxymethyl)phenol (MBPs) and Maltose-tris(hydroxymethyl)phenol (MTPs) Amphiphiles for Membrane Protein Stability.** *ACS chemical biology*
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2021
- **Conformationally flexible core-bearing detergents with a hydrophobic or hydrophilic pendant: Effect of pendant polarity on detergent conformation and membrane protein stability.** *Acta biomaterialia*
Sadaf, A., Kim, S., Bae, H. E., Wang, H., Nygaard, A., Uegaki, Y., Du, Y., Munk, C. F., Katsube, S., Bae, J., Choi, C. W., Choi, H., Byrne, et al
2021
- **Construction, characterization, and immunization of nanoparticles that display a diverse array of influenza HA trimers** *PLOS ONE*
Cohen, A. A., Yang, Z., Gnanapragasam, P. P., Ou, S., Dam, K. A., Wang, H., Bjorkman, P. J.

2021; 16 (3): e0247963

- **Diastereomeric Cyclopentane-Based Maltosides (CPMs) as Tools for Membrane Protein Study.** *Journal of the American Chemical Society*
Das, M., Mahler, F., Hariharan, P., Wang, H., Du, Y., Mortensen, J. S., Patallo, E. P., Ghani, L., Gluck, D., Lee, H. J., Byrne, B., Loland, C. J., Guan, et al
2020
- **New Malonate-Derived Tetraglucoside Detergents for Membrane Protein Stability.** *ACS chemical biology*
Ehsan, M., Katsube, S., Cecchetti, C., Du, Y., Mortensen, J. S., Wang, H., Nygaard, A., Ghani, L., Loland, C. J., Kobilka, B. K., Byrne, B., Guan, L., Chae, et al
2020
- **Publisher Correction: Asymmetric opening of HIV-1 Env bound to CD4 and a coreceptor-mimicking antibody.** *Nature structural & molecular biology*
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2020
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2019
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Yang, Z., Wang, H., Liu, A. Z., Gristick, H. B., Bjorkman, P. J.
2019
- **A functional enrichment test for molecular convergent evolution finds a clear protein-coding signal in echolocating bats and whales.** *Proceedings of the National Academy of Sciences of the United States of America*
Marcovitz, A., Turakhia, Y., Chen, H. I., Gloudemans, M., Braun, B. A., Wang, H., Bejerano, G.
2019