

Stanford



Bibudha Parasar

Postdoctoral Scholar, Neurobiology

Bio

PROFESSIONAL EDUCATION

- Bachelor of Chemistry, Unlisted School (2015)
- Doctor of Philosophy, Cornell University (2021)
- Master of Science, Indian Institute of Science Education and Research (2015)
- Master of Science, Cornell University (2017)
- Bachelor of Science, Indian Institute of Science Education and Research (2015)
- Doctor of Philosophy, Cornell University , Chemistry and Chemical Biology (2021)
- Dual BS-MS, Indian Institute of Science Education and Research (IISER) - Kolkata , Chemistry (2015)

STANFORD ADVISORS

- Longzhi Tan, Postdoctoral Faculty Sponsor

PATENTS

- Bibudha Parasar, Lin Han, Pamela V Chang. "United States Patent 17/231, 432 Compositions and methods for profiling of gut-microbiota associated bile salt hydrolase (BSH) activity"

Publications

PUBLICATIONS

- **Lifelong restructuring of 3D genome architecture in cerebellar granule cells.** *Science (New York, N.Y.)*
Tan, L., Shi, J., Moghadami, S., Parasar, B., Wright, C. P., Seo, Y., Vallejo, K., Cobos, I., Duncan, L., Chen, R., Deisseroth, K.
2023; 381 (6662): 1112-1119
- **BSH-TRAP: Bile salt hydrolase tagging and retrieval with activity-based probes.** *Methods in enzymology*
Parasar, B., Chang, P. V.
2022; 664: 85-102
- **Engineered Th17 Cell Differentiation Using a Photoactivatable Immune Modulator** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*
Parasar, B., Chang, P.
2020; 142 (42): 18103-18108
- **Integrated Regulation of HuR by Translation Repression and Protein Degradation Determines Pulsatile Expression of p53 Under DNA Damage** *ISCIENCE*
Guha, A., Ahuja, D., Das Mandal, S., Parasar, B., Deyasi, K., Roy, D., Sharma, V., Willard, B., Ghosh, A., Ray, P.
2019; 15: 342-+
- **Chemoproteomic Profiling of Gut Microbiota-Associated Bile Salt Hydrolase Activity** *ACS CENTRAL SCIENCE*

Parasar, B., Zhou, H., Xiao, X., Shi, Q., Brito, I. L., Chang, P.
2019; 5 (5): 867-873

- **Chemical optogenetic modulation of inflammation and immunity** *CHEMICAL SCIENCE*
Parasar, B., Chang, P. V.
2017; 8 (2): 1450-1453
- **Deconvoluting host-gut microbiota co-metabolism.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Chang, P., Parasar, B., Zhao, H., Xiao, X., Shi, Q., Brito, I.
2022; 36 Suppl 1
- **BSH-TRAP: Bile salt hydrolase tagging and retrieval with activity-based probes** *CHEMICAL MICROBIOLOGY, PT A*
Parasar, B., Chang, P. V.
edited by Carlson, E. E.
2022; 664: 85-102
- **Finding the Sweet Spot for Breast Cancer Detection** *ACS CENTRAL SCIENCE*
Parasar, B., Chang, P. V.
2020; 6 (12): 2123-2125
- **Microwave assisted cross-coupling reactions using palladium nanoparticles in aqueous media** *SYNTHETIC COMMUNICATIONS*
Dhara, K., Parasar, B., Patil, A. J., Dash, J.
2019; 49 (6): 859-868
- **Bipyridine Facilitates Regioselective Dimerization of Alkynes in the Absence of Transition Metal** *CHEMISTRYSELECT*
Midya, G., Parasar, B., Maiti, S., Dash, J.
2017; 2 (18): 5032-5037
- **Transcript degradation and noise of small RNA-controlled genes in a switch activated network in Escherichia coli** *NUCLEIC ACIDS RESEARCH*
Arbel-Goren, R., Tal, A., Parasar, B., Dym, A., Costantino, N., Munoz-Garcia, J., Court, D. L., Stavans, J.
2016; 44 (14): 6707-6720
- **Chiral carbon dots derived from guanosine 5'-monophosphate form supramolecular hydrogels** *CHEMICAL COMMUNICATIONS*
Ghosh, A., Parasar, B., Bhattacharyya, T., Dash, J.
2016; 52 (74): 11159-11162
- **A copper based catalyst for poly-urethane synthesis from discarded motherboard** *RSC ADVANCES*
Barman, S., Parasar, B., Kundu, P., Roy, S.
2016; 6 (79): 75749-75756
- **MICRO-OPTOMECHANICAL MOVEMENTS (MOMs) WITH SOFT OXOMETALATES (SOMs): CONTROLLED MOTION OF SINGLE SOFT OXOMETALATE PEAPODS USING EXOTIC OPTICAL POTENTIALS** *JOURNAL OF MOLECULAR AND ENGINEERING MATERIALS*
Roy, B., Ghosh, N., Panigrahi, P. K., Banerjee, A., Sahasrabudhe, A., Parasar, B., Roy, S.
2014; 2 (1)
- **Ligand mediated iron catalyzed dimerization of terminal aryl alkynes: scope and limitations** *ORGANIC & BIOMOLECULAR CHEMISTRY*
Midya, G., Parasar, B., Dhara, K., Dash, J.
2014; 12 (11): 1812-1822
- **pH dependent multifunctional and multiply-configurable logic gate systems based on small molecule G-quadruplex DNA recognition** *CHEMICAL COMMUNICATIONS*
Bhowmik, S., Das, R., Parasar, B., Dash, J.
2013; 49 (18): 1817-1819
- **Reduction of organic azides to amines using reusable Fe₃O₄ nanoparticles in aqueous medium** *CATALYSIS SCIENCE & TECHNOLOGY*
Pagoti, S., Surana, S., Chauhan, A., Parasar, B., Dash, J.
2013; 3 (3): 584-588