

Publication

1. Sandhya S, Chengxiang Y, Chakraborty S, Winson T, Min P, Shabbir A, Sue-Anne T, Weiping H & Sugii S, "Oxidative stress mediates depot-specific functional differences of human adipose-derived stem cells", *Stem Cell Res Ther*, (2019) DOI: 10.1186/s13287-019-1240-y.
2. Sayed A*, Chakraborty S*, Leung KY, Sugii S, Mok YK, "Trxlp, a thioredoxin-like effector from *Edwardsiella piscicida* inhibits cellular redox signaling and nuclear translocation of NF- κ B", *Int J Biol Macromol*, (2020) DOI: 10.1016/j.ijbiomac.2020.01.114.
3. Chengxiang Y, Chakraborty S, Krishna KC, Subramanian S; Han W, Sugii S, "Fast Adipogenesis Tracking System (FATS) – A robust, high throughput, open-source adipogenesis quantification technique", *Stem Cell Res Ther*, (2019) DOI: 10.1186/s13287-019-1141-0
4. Chakraborty S and Kenney LJ, "A new role for OmpR in acid and osmotic stress in *Salmonella* and *E. coli*", (2018) *Front Microbiol* DOI: 10.3389/fmicb.2018.02656
5. Dev K, Dinish US, Chakraborty S, "Quantitative in vivo detection of adipose tissue browning using diffuse reflectance spectroscopy in near-infrared II window", *J Biophotonics*, (2018) DOI: 10.1002/jbio.201800135
6. Chakraborty S, Ricksen S Winardhi, Leslie K. Morgan, Yan Jie, Kenney LJ, "Non-canonical activation of OmpR drives acid and osmotic stress responses in single bacterial cells", *Nat Commun*, (2017) DOI: 10.1038/s41467-017-02030-0
7. Chakraborty S, Mizusaki H, Kenney LJ, "A FRET-based DNA biosensor tracks OmpR-dependent acidification of *Salmonella* during macrophage infection", *PLOS Biol*, (2015) DOI: 10.1371/journal.pbio.1002116
8. Chakraborty S, Sivaraman J, Leung KY, Mok YK Two-component, "PhoB-PhoR Regulatory System and Ferric Uptake Regulator Sense Phosphate and Iron to Control Virulence Genes", *J Biol Chem* (2011) DOI: 10.1074/jbc.M111.295188
9. Chakraborty S, Li M, Chatterjee C, Sivaraman J, Leung KY, Mok YK, "Temperature and Mg²⁺ Sensing by a Novel PhoP-PhoQ Two-component System for Regulation of Virulence in *Edwardsiella tarda*", *J Biol Chem*, DOI: 10.1074/jbc.M110.179150
10. Jobichen C, Chakraborty S, Li M, Zheng J, Joseph L, Mok YK, Leung KY, Sivaraman J, "Structural basis for the secretion of EvpC: a key type VI secretion system protein from *Edwardsiella tarda*", *PLoS One* DOI: 10.1371/journal.pone.0012910
11. Chatterjee C, Kumar S, Chakraborty S, Yih Wan Tan Y W, Leung K Y, Sivaraman J, and Mok Y K, "Crystal structure of the heteromolecular chaperone, AscE-AscG,

from the type III secretion system in *Aeromonas hydrophila*”, J Biol Chem, (2010)
DOI: 10.1371/journal.pone.0019208