

## Taiki Shimizu, Ph. D.

Postdoctoral Research Associate

### Education

April 2014- March 2018: Department of molecular cell science, Tohoku university, Japan.

Awarded the degree of Ph.D. for a thesis entitled "Investigation of novel functions of prolyl isomerase Pin1 via the regulation of phosphorylated proteins." Work supervised by Dr. Takafumi Uchida.

### Publications

1. Shimizu T., Fukuda K., Shimura C., Nakayama JI., Oki M., Shinkai Y. (2026) Chromatin Landscape of *Saccharomyces cerevisiae* Acquiring H3K9 Methylation and Its Reader Molecule HP1. *Genes Cells*. 31(1):e70072
2. Shimizu T., Hirose K., Uchida C., Uchida T. (2020) Growth arrest specific protein 7 inhibits tau fibrillogenesis. *Biochem. Biophys. Res. Commun.* 526:281-286
3. Shimizu T<sup>†</sup>, Kanai K<sup>†</sup>, Sugawara Y., Uchida C., Uchida T. (2018) Prolyl isomerase Pin1 directly regulates calcium/calmodulin-dependent protein kinase II activity in mouse brains. *Front. Pharmacol.* 9:1351
4. Shimizu T., Uchida C., Shimizu R., Motohashi H., and Uchida T. (2017) Prolyl isomerase Pin1 promotes proplatelet formation of megakaryocyte via tau. *Biochem. Biophys. Res. Commun.* 493:946-951
5. Shimizu T<sup>†</sup>, Bamba Y<sup>†</sup>, Kawabe Y<sup>†</sup>, Fukuda T., Fujimori F., Takahashi K., Uchida C., and Uchida T. (2016) Prolyl isomerase Pin1 regulates doxorubicin-inducible P- glycoprotein level by reducing Foxo3 stability. *Biochem. Biophys. Res. Commun.* 471:328-333
6. Hidaka M., Gotoh A., Shimizu T., Minamisawa K., Imamura H., and Uchida T. (2016) Visualization of NO<sub>3</sub><sup>-</sup>/NO<sub>2</sub><sup>-</sup> dynamics in living cells by fluorescence resonance energy transfer (FRET) imaging employing a rhizobial two-component regulatory system. *J. Biol. Chem.* 291:2260-2269
7. Takahashi K, Shimizu T, Kosaka K, Hidaka M, Uchida C, Uchida T. (2014) Role of prolyl isomerase Pin1 in pathogenesis of diseases and remedy for the diseases from natural products. *Curr. Drug Targets.* 15