

CURRICULUM VITAE

NAME

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EDUCATIONAL HISTORY

Ph.D. (2009)	Yokohama City University
M.S. (2006)	Yokohama City University
B.S (2004)	Rikkyo University

EMPLOYMENT HISTORY

University of Shizuoka

Research Assistant Professor, 2016-present

Sanford-Burnham-Prebys Medical Discovery Institute

Post-doctoral fellow, 2014-2016

Yokohama City University

Research Assistant Professor, 2012-2014

Post-doctoral fellow, 2009-2012

PUBLICATIONS

- 1) Yanagi T, Tachikawa K, Wilkie-Grantham RP, **Hishiki A**, Nagai K, Toyonaga E, Chivukula P, Matsuzawa SI. Lipid nanoparticle-mediated siRNA transfer against

- PCTAIRE1/PCTK1/Cdk16 inhibits in vivo cancer growth. **Mol Ther Nucleic Acids**. (2016) vol. 5 (6), e327
- 2) Godoi PH, Wilkie-Grantham RP, **Hishiki A**, Sano R, Matsuzawa Y, Yanagi H, Munte CE, Chen Y, Yao Y, Marassi FM, Kalbitzer HR, Matsuzawa SI, Reed JC. Orphan Nuclear Receptor NR4A1 binds a novel protein interaction site on anti-apoptotic B-cell lymphoma gene-2 family proteins. **J Biol Chem** (2016) vol. 291 (27) pp.14072-14084
 - 3) Ikegaya Y, Hara K, **Hishiki A**, Yokoyama H, Hashimoto H. Crystallographic study of a novel DNA-binding domain of human HLTF involved in the template-switching pathway to avoid the replication arrest caused by DNA damage. **Acta Crystallogr F Struct Biol Commun** (2015) vol. 71 (Pt 6) pp. 668-670
 - 4) **Hishiki A**, Hara K, Ikegaya Y, Yokoyama H, Shimizu T, Sato M, Hashimoto H. Structure of a Novel DNA-binding Domain of Helicase-like Transcription Factor (HLTF) and Its Functional Implication in DNA Damage Tolerance. **J Biol Chem** (2015) vol. 290 (21) pp. 13215-13223
 - 5) Inoue A, Kikuchi S, **Hishiki A**, Shao Y, Heath R, Evison BJ, Actis M, Canman CE, Hashimoto H, Fujii N. A small molecule inhibitor of monoubiquitinated Proliferating Cell Nuclear Antigen (PCNA) inhibits repair of interstrand DNA cross-link, enhances DNA double strand break, and sensitizes cancer cells to cisplatin. **J Biol Chem** (2014) vol. 289 (10) pp. 7109-7120
 - 6) Masuda Y, Suzuki M, Kawai H, **Hishiki A**, Hashimoto H, Masutani C, Hishida T, Suzuki F, Kamiya K. En bloc transfer of polyubiquitin chains to PCNA in vitro is mediated by two different human E2-E3 pairs. **Nucleic Acids Res** (2012) vol. 40 (20) pp. 10394-10407
 - 7) Punchihewa C, Inoue A, **Hishiki A**, Fujikawa Y, Connelly M, Evison B, Shao Y, Heath R, Kuraoka I, Rodrigues P, Hashimoto H, Kawanishi M, Sato M, Yagi T, Fujii N. Identification of small molecule proliferating cell nuclear antigen (PCNA) inhibitor that disrupts interactions with PIP-box proteins and inhibits DNA replication. **J Biol Chem** (2012) vol. 287 (17) pp. 14289-14300

- 8) Iwamoto M, **Hishiki A**, Shimada T, Imasaki T, Tsuda J, Kita K, Shimizu T, Sato M, Hashimoto H. Crystallization and X-ray diffraction studies of DNA-free and DNA-bound forms of EcoO109I DNA methyltransferase. **Acta Crystallogr Sect F Struct Biol Cryst Commun** (2010) vol. 66 (Pt 11) pp. 1528-1530
- 9) Hashimoto H, Hara K[#], **Hishiki A**[#] ([#] equally contribution), Kawaguchi S, Shichijo N, Nakamura K, Unzai S, Tamaru Y, Shimizu T, Sato M. Crystal structure of zinc-finger domain of Nanos and its functional implications. **EMBO Rep** (2010) vol. 11 (11) pp. 848-853
- 10) **Hishiki A**, Hashimoto H, Hanafusa T, Kamei K, Ohashi E, Shimizu T, Ohmori H, Sato M. Structural basis for novel interactions between human translesion synthesis polymerases and proliferating cell nuclear antigen. **J Biol Chem** (2009) vol. 284 (16) pp. 10552-10560
- 11) **Hishiki A**, Shimizu T, Hanafusa T, Ohmori H, Sato M, Hashimoto H. Initial crystallographic study of human PCNA in complex with a peptide containing the noncanonical PIP-box sequence of human DNA polymerase iota. **Acta Crystallogr Sect F Struct Biol Cryst Commun** (2008) vol. 64 (Pt 10) pp. 954-956
- 12) **Hishiki A**, Shimizu T, Serizawa A, Ohmori H, Sato M, Hashimoto H. Crystallographic study of G178S mutant of human proliferating cell nuclear antigen. **Acta Crystallogr Sect F Struct Biol Cryst Commun** (2008) vol. 64 (Pt 9) pp. 819-821