Curriculum vitae

Jun-ichi Sawada, Doctor of Engineering

Personal:

Affiliation: Center for Drug Discovery,
School of Pharmaceutical Sciences, University of Shizuoka
Position: Associate Professor
Mailing address: 52-1 Yada, Suruga-ku, Shizuoka, 422-8526, Japan
E-mail address: jisawada@u-shizuoka-ken.ac.jp
Telephone & Fax: +81-54-264-5230
Date of Birth: February 13, 1970
Nationality: Japan by birth

Gender and Marital status: Male & married

Current research fields:

Chemical screening for mitotic inhibitors

Chemical biology in mitotic regulation of cell cycle

Education:

Doctor of Engineering, Graduate School of Bioscience and Biotechnology,
Tokyo Institute of Technology, held in 1997
Supervised by Dr. Hiroshi Handa

Master of Engineering, Graduate School of Bioscience and Biotechnology,
Tokyo Institute of Technology, held in 1994

Bachelor of Engineering, Faculty of Engineering,
Tokyo Institute of Technology, held in 1992

Position:

Apr. 1997 to Jul. 1997 Postdoctoral fellow of Prof. Handa's Lab.,
Tokyo Institute of Technology Research
fellow of Prof. Suzuki's Lab., National
Institute for Basic Biology

Aug. 1997 to Mar. 1998	Research officer of Venture Business Lab., Tokyo Institute of Technology
Apr. 1998 to Mar. 2001	Research fellow of the Japan Society for the promotion of Science, Prof. Handa's Lab., Frontier Collaborative Research Center, Tokyo Institute of Technology
Jan. 2000 to May 2004	Postdoctoral fellow of Prof. Nakatani's Lab., Dana-Farber Cancer Institute, Harvard Medical School
Jun. 2004 to Present	Associate Professor, Center for Drug Discovery University of Shizuoka

Selected publications:

1. Carbajales C, Sawada J, Marzaro G, Sotelo E, Escalante L, Marta A SD, Garcia-Mera X, Asai A, Coelho A. 2017. "Multicomponent assembly of the Kinesin Spindle Protein inhibitor CPUYJ039 and analogues as antimitotic agents." *ACS Comb. Sci.* 19: 153–160.
2. Sawada J, Osawa A, Takeuchi T, Kaneda M, Oishi S, Fuji N, Asai A, Tanino K, Namba K. 2016. "Functional 1,3a,6a-triazapentalene scaffold: Design of fluorescent probes for kinesin spindle protein (KSP)." *Bioorg. Med. Chem. Lett.* 26: 5765–5769.
3. Ogo N, Ishikawa Y, Sawada J, Matsuno K, Hashimoto A, and Asai A. 2015. "Structure-guided design of novel L-cysteine derivatives as potent KSP inhibitors." *ACS Med. Chem. Lett.* 6: 1004–1009.
4. Yokoyama H#, Sawada J#, Katoh S, Matsuno K, Ogo N, Ishikawa Y, Hashimoto H, Fujii S, and Asai A. 2015. "Structural basis of new allosteric inhibition in Kinesin spindle protein Eg5." *ACS Chem. Biol.* 10: 1128–1136.
5. Takeuchi T, Oishi S, Kaneda M, Ohno H, Nakamura S, Nakanishi I, Yamane, M, Sawada J, Asai A, and Fujii N. 2014. "Kinesin spindle protein inhibitors with diaryl amine scaffolds: Crystal packing analysis for improved aqueous solubility." *ACS Med. Chem. Lett.* 5: 566–571.
6. Ohno K, Sawada J, Takiya S, Kimoto M, Matsumoto A, Tsubota T, Uchino K, Hui CC, Sezutsu H, Handa H, and Suzuki Y. 2013. "Silk gland factor-2, involved in fibroin gene transcription, consists of LIM homeodomain, LIM-interacting, and single-stranded DNA-binding proteins." *J. Biol. Chem.* 288: 31581–31591.
7. Takeuchi T, Oishi S, Watanabe T, Ohno H, Sawada J, Matsuno K, Asai A, Asada N, Kitaura K, Fujii N. 2011. "Structure-Activity Relationships of

Carboline and Carbazole Derivatives as a Novel Class of ATP-Competitive Kinesin Spindle Protein Inhibitors." *J. Med. Chem.* 54, 4839-4846.

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9. Oikawa T, Unno Y, Matsuno K, Sawada J, Ogo N, Tanaka K, Asai A. 2010. "Identification of a small-molecule inhibitor of the interaction between Survivin and Smac/DIABLO." *Biochem. Biophys. Res. Commun.* 393, 253-258.
10. Matsuno K, Sawada J, Sugimoto M, Ogo N and Asai A. 2009. "Bis(hetero)aryl derivatives as unique kinesin spindle protein inhibitors." *Bioorg. Med. Chem. Lett.* 19: 1058-1061.
11. Ogo N, Oishi S, Matsuno K, Sawada J, Fujii N and Asai A. 2007. "Synthesis and biological evaluation of L-cysteine derivatives as mitotic kinesin Eg5 inhibitors." *Bioorg. Med. Chem. Lett.* 17: 3921-3924.
12. Groisman R, Polanowska J, Kuraoka I, Sawada J, Saijo M, Drapkin R, Kisselev AF, Tanaka K and Nakatani Y. 2003. "The ubiquitin ligase activity in the DDB2 and CSA complexes is differentially regulated by the COP9 signalosome in the response to DNA damage." *Cell.* 113: 357-367.
13. Shi Y, Sawada J, Sui G, Affar EB, Whetstine JR, F. Lan, H. Ogawa, M. P.-S. Luke, Y. Nakatani and Y. Shi. 2003. "Coordinated histone modification mediated by a CtBP co-repressor complex." *Nature.* 442: 735-738.
14. Sawa C, Yoshikawa T, Matsuda-Suzuki F, Delehouzee S, Goto M, Watanabe H, Sawada J, Kataoka K and Handa H. 2002. "YEAF1/RYBP and YAF-2 are functionally distinct members of a co-factor family for the YY1 and E4TF1/hGABP transcription factors." *J. Biol. Chem.* 277: 22484-22490.
15. Tomohiro T, Sawada J, Sawa C, Nakura H, Yoshida S, Kodaka M, Hatakeyama M, Kawaguchi H, Handa H, and Okuno H. 2002. "Total analysis and purification of cellular proteins binding to cisplatin-damaged DNA using submicron beads." *Bioconjugate Chem.* 13: 163–166.
16. Sawada J, Shimizu N, Suzuki F, Sawa C, Goto M, Hasegawa M, Imai T, Watanabe H and Handa H. 1999. "Synergistic transcription activation by hGABP and select members of the activation transcription factor/cAMP response element-binding protein family." *J. Biol. Chem.* 274: 35475-35482.
17. Suzuki F, Goto M, Sawa C, Watanabe H, Sawada J and Handa H.. 1998. "Functional interactions of transcription factor hGABP subunits." *J. Biol.*

Chem. 273: 29302-29308.

18. Sawa C, Goto M, Suzuki F, Watanabe H, Sawada J and Handa H. 1996. "Functional domains of transcription factor hGABPβ/E4TF1-53 required for nuclear localization and transcription activation." *Nucleic Acids Res.* 24: 4954-4961.
19. Sawada J, Goto M, Sawa C, Watanabe H and Handa H. 1994. "Transcriptional activation through the tetrameric complex formation of E4TF1 subunits." *EMBO J.* 13: 1396-1402.
20. Watanabe H, Sawada J, Yano K, Yamaguchi K, Goto M and Handa H. 1993. "cDNA cloning of transcription factor E4TF1 subunits with Ets and Notch motifs." *Mol. Cell. Biol.* 13: 1385-1391.