

平成 28 年度業績集

【英文原著】

1. Nongluk Sriwilaijaroen, Sadagopan Magesh, Akihiro Imamura, Hiromune Ando, Hideharu Ishida, Miho Sakai, Erika Ishitsubo, Takanori Hori, Setsuko Moriya, Takeshi Ishikawa, Kazuo Kuwata, Takato Odagiri, Masato Tashiro, Hiroaki Hiramatsu, Kenji Tsukamoto, Taeko Miyagi, Hiroaki Tokiwa, Makoto Kiso, and Yasuo Suzuki, A Novel Potent and Highly Specific Inhibitor against Influenza Viral N1–N9 Neuraminidases: Insight into Neuraminidase–Inhibitor Interactions, *Journal of medicinal chemistry* , 2016 May 26;59(10):4563-77
2. Ferdausi Ali, Keiichi Yamaguchi, Mayuko Fukuoka, Abdelazim Elhelaly, and Kazuo Kuwata, Logical design of an anti-cancer agent targeting the Plant Homeodomain (PHD) in Pygopus2, *Cancer Science*, 2016 Sep;107(9):1321-8
3. Kabir Aurangaze, Ryo P. Honda, Yuji O. Kamatari, Satoshi Endo, Mayuko Fukuoka, and Kazuo Kuwata, Effects of ligand binding on the stability of aldo-keto reductases (AKR), *Protein Science*, 2016 Sep 6. 25 (12) : 2132-41
4. Kabir Aurangaze, Satoshi Endo, Naoki Toyooka, Mayuko Fukuoka, Kazuo Kuwata, and Yuji O. Kamatari. Evaluation of compound selectivity of aldo-keto reductases using differential scanning fluorimetry. *Journal of Biochemistry* 2016 Dec 21. (2017) 161 (2): 215-222. doi: 10.1093/jb/mvw063.
5. Satoshi Endo, Sayaka Takada, Ryo P. Honda, Kathrin Müller, Jochen H. Weishaert, Peter M. Andersen, Albert C. Ludolph, Yuji O. Kamatari, Toshiyuki Matsunaga, Kazuo Kuwata, Ossama El-Kabbani, Akira Ikari, Instability of C154Y variant of aldo-keto reductase 1C3, *Chemico-Biological Interactions* 2016 Dec 23. pii: S0009-2797(16)30758-X. doi: 10.1016/j.cbi.2016.12.018. [Epub ahead of print] (2017)
6. Ryo P. Honda & Kazuo Kuwata, The native state of prion protein (PrP) directly inhibits formation of PrP-amyloid fibrils in vitro, *Scientific Reports* 7, Article number: 562 (2017), doi:10.1038/s41598-017-00710-x

【国内特別講演】

1. 桑田一夫：統合創薬ソフト NAGARA の開発、論理的創薬機医学の創始、及び論理的医療の実践、インシリコ創薬の展望セミナー 2016年4月15日 神戸臨床研究情報センター

【国内学会・シンポジウム一般講演、ポスター発表】

1. 桑田一夫、プリオント病治療薬の開発、日本アミロイドーシス研究会学術集会 2016年8月19日 KKR ホテル東京
2. Kei-ichi Yamaguchi, Ryo Honda, Abdelazim Elhelaly, Kazuo Kuwata: Continuous ultrasonic irradiation induces rapid aggregations of MoPrP depending on pH 第16回日本蛋白質科学会年会 2016年6月7日～6月9日 福岡国際会議場
(ポスター発表)

【国際学会一般講演、ポスター発表】

1. Kazuo Kuwata, Logical design of a therapeutic agent for prion diseases, PRION 2016 Tokyo, 一ツ橋ホール 東京 May 10-13, 2016
2. Ryo P. Honda, Kei-ichi Yamaguchi, Kazuo Kuwata, Folding and misfolding pathways of prion protein, PRION 2016 Tokyo, 一ツ橋ホール 東京 May 10-13, 2016
3. Toshinobu shida, Yuji O. Kamatari, Kazuo Kuwata, Motomasa Tanaka, A local conformation of natively disordered yeast prion monomer determines interspecies prion transmissibility, PRION 2016 Tokyo, 一ツ橋ホール 東京 May 10-13, 2016
4. Kei-ichi Yamaguchi, Junji Hosokawa-Muto, Yuji O. Kamatari, Kazuo Kuwata, Calibration of ultrasonic power and conformational analysis of MoPrP amyloid fibrils, PRION 2016 一ツ橋ホール 東京 May 10-13, 2016 〈ポスター発表〉
5. Baio Ma, Kei-ichi Yamaguchi, Mayuko Fukuoka, Kazuo Kuwata, Discovery of anti-prion agents using PyMOL plugin-based logical drug design platform NAGARA, PRION 2016 一ツ橋ホール 東京 May 10-13, 2016 〈ポスター発表〉
6. Yuji O. Kamatari, Kazuo Kuwata, Classification of anti-prion compounds based on the binding properties to prion proteins, PRION 2016 一ツ橋ホール 東京 May 10-13, 2016 〈ポスター発表〉

7. Motomasa Tanaka, Yumiko Ohhashi, Yoshiki Yamaguchi, Yuji O. Kamatari, Kazuo Kuwata, Latent structural variation in a yeast prion monomer determines strain phenotypes, PRION 2016 一ツ橋ホール 東京 May 10-13, 2016 〈ポスター発表〉
8. Satoshi Endo, Sayaka Takada, Ryo Honda, Kathrin Müller, Yuji O. Kamatari, Toshiyuki Matsunaga, Kazuo Kuwata, Jochen Weishaupt, Akira Ikari, Instability of C154Y variant of aldo-keto reductase 1C3 found in familial amyotrophic lateral sclerosis, 18th International Workshop on the Enzymology and Molecular Biology of Carbonyl Metabolism, July 12-17, 2016 Costa Brava, Spain 〈ポスター発表〉
9. Keiichi Yamaguchi, Yuji O Kamatari, Ryo P Honda, Kazuo Kuwata, Real-Time *In vitro* Conversion of Prion Protein Detected by NMR, XXVIIth International Conference on Magnetic Resonance in Biological Systems, August 21-26, 2016, Kyoto International Conference Center 〈ポスター発表〉

【和文総説】

桑田一夫：プリオൺ病治験体制の整備 臨床評価 Clinical Evaluation Vol.44, No.4, Feb.