

## *CURRICULUM VITAE*

### **Kenzo Yamatsugu**

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### **Education/Career**

- 2005**                                **B.Sc** in Department of Pharmaceutical Sciences,  
The University of Tokyo (Prof. Masakatsu Shibasaki)
- 2007**                                **M.Sc** in Graduate School of Pharmaceutical Sciences  
The University of Tokyo (Prof. Masakatsu Shibasaki)
- 2010**                                **Ph.D (Pharmaceutical Sciences)**  
in Graduate School of Pharmaceutical Sciences  
The University of Tokyo (Prof. Masakatsu Shibasaki)
- 2010-2011**                        **Postdoctoral Fellow**  
in Institute of Microbial Chemistry, Tokyo  
(Prof. Masakatsu Shibasaki)
- 2011-2012**                        **Postdoctoral Fellow**  
in Department of Chemistry  
University of Wisconsin-Madison (Prof. Laura Kiessling)
- 2012-**                                **ERATO Project Group Leader, Assistant Professor**  
in Graduate School of Pharmaceutical Sciences  
ERATO Kanai Life-Science Catalysis Project  
The University of Tokyo (Prof. Motomu Kanai)

### **Fellowships & Grants**

- 2007-2010                        Research Fellow of the Japan Society for the Promotion of Sciences (DC1)
- 2011-2012                        JSPS Postdoctoral Fellowships for Research Abroad

### **Publication List**

- 1) Komatsu, H.; Shindo, Y.; Kawashima, S. A.; Yamatsugu, K.; Oka K.; Kanai, M.  
“Intracellular activation of acetyl-CoA by an artificial reaction promoter and its fluorescent detection”  
*Chem. Commun.* **2013**, *49*, 2876.
- 2) Shibasaki, M.; Kanai, M.; Yamatsugu, K.  
“Recent Development in Synthetic Strategies for Oseltamivir Phosphate”  
*Israel J. Chem.* **2011**, *51*, 316.
- 3) Kimura, Y.; Yamatsugu, K.; Kanai, M.; Echigo, N.; Kuzuhara, T.; Shibasaki, M.  
“Design and Synthesis of Resin-Conjugated Tamiflu Analogs for Affinity Chromatography”  
*Bull. Korean. Chem. Soc.* **2010**, *31*, 588.
- 4) Yamatsugu, K.; Kanai, M.; Shibasaki, M.  
“An alternative synthesis of Tamiflu: a synthetic challenge and the identification of a ruthenium-catalyzed dihydroxylation route”  
*Tetrahedron* **2009**, *65*, 6017.
- 5) Tomita, D.; Yamatsugu, K.; Kanai, M.; Shibasaki, M.  
“Enantioselective synthesis of SM-130686 based on the development of asymmetric Cu(I)F catalysis to access 2-oxindoles containing a tetrasubstituted carbon”  
*J. Am. Chem. Soc.* **2009**, *131*, 6946.
- 6) Kimura, Y.; Yamatsugu, K.; Kanai, M.; Echigo, N.; Kuzuhara, T.; Shibasaki, M.  
“Design and synthesis of immobilized Tamiflu analog on resin for affinity chromatography”  
*Tetrahedron Lett.* **2009**, *50*, 3205.
- 7) Yamatsugu, K.; Yin, L.; Kamijo, S.; Kimura, Y.; Kanai, M.; Shibasaki, M.  
“A synthesis of Tamiflu based on a barium-catalyzed Diels-Alder-type reaction”  
*Angew. Chem. Int. Ed.* **2009**, *48*, 1070.
- 8) Ose, A.; Ito, M.; Kusuhara, H.; Yamatsugu, K.; Kanai, M.; Shibasaki, M.; Hosokawa, M.; Schuetz, J. D.; Sugiyama, Y.  
“Limited brain distribution of Ro 64-0802, a pharmacologically active form of oseltamivir, by active efflux across the blood–brain barrier mediated by organic anion transporter 3

- (Oat3/*Slc22a8*) and multidrug resistance-associated protein 4 (Mrp4/*Abcc4*)”  
*Drug. Metab. Dispos.* **2009**, *37*, 315.
- 9) Usami, A.; Sasaki, T.; Satoh, N.; Akiba, T.; Yokosima, S.; Fukuyama, T.; Yamatsugu, K., Kanai, M.; Shibasaki, M.; Matsuki, N.; Ikegaya, Y.  
“Oseltamivir enhances hippocampal network synchronization”  
*J. Pharmacol. Sci.* **2008**, *106*, 659.
- 10) Ose, A.; Kusuhara, H.; Yamatsugu, K.; Kanai, M.; Shibasaki, M.; Fujita, T.; Yamamoto, A.; Sugiyama, Y.  
“P-glycoprotein restricts the penetration of oseltamivir across the blood-brain barrier”  
*Drug. Metab. Dispos.* **2008**, *36*, 427.
- 11) Ishii, K.; Hamamoto, H.; Sasaki, T.; Ikegaya, Y.; Yamatsugu, K.; Kanai, M.; Shibasaki, M.; Sekimizu, K.  
“Pharmacologic action of oseltamivir on the nervous system”  
*Drug Discoveries & Therapeutics* **2008**, *2*, 24.
- 12) Morita, M.; Sone, T.; Yamatsugu, K.; Sohtome, Y.; Matsunaga, S.; Kanai, M.; Yasuyosi, W.; Shibasaki, M.  
“A method for the synthesis of an oseltamivir PET tracer”  
*Bioorg. Med. Chem. Lett.* **2008**, *18*, 600.
- 13) Yamatsugu, K.; Kamijo, S.; Suto, Y.; Kanai, M.; Shibasaki, M.  
“A concise synthesis of Tamiflu: third generation route via the Diels-Alder reaction and the Curtius rearrangement”  
*Tetrahedron Lett.* **2007**, *48*, 1403.
- 14) Yamatsugu, K.; Motoki, R.; Kanai, M.; Shibasaki, M.  
“Identification of potent, selective protein kinase C inhibitors based on a phorbol skeleton”  
*Chem. Asian. J.* **2006**, *1*, 314.
- 15) Kuramochi, A.; Usuda, H.; Yamatsugu, K.; Kanai, M.; Shibasaki, M.  
“Total synthesis of (+/-)-garsubellin A”  
*J. Am. Chem. Soc.* **2005**, *127*, 14200.