

CURRICULUM VITAE

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Personal Information

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Education and Research Positions

9/2011-Present: Assistant professor, School of Pharmaceutical Sciences
University of Shizuoka (Professor T. Kan Group)
4/2011-8/2011: Assistant professor, Faculty of Pharmaceutical Sciences
Tokushima Bunri University (Professor T. Tsunoda Group)
4/2010-3/2011: Postdoctoral Fellow, Faculty of Pharmaceutical Sciences
Tokushima Bunri University (Professor Tetsuto Tsunoda)
4/2009-3/2010: Uehara Memorial Foundation, Postdoctoral Fellow Department of Chemistry
Colorado State University (Professor Robert M. Williams)
4/2006-3/2009: D. S., School of Pharmaceutical Sciences
University of Shizuoka (Professor Toshiyuki Kan)

Society Membership

The Pharmaceutical Society of Japan
The Society of Synthetic Organic Chemistry, Japan

Ph. D. Thesis

Total Synthesis of Myriocin (Under the direction of Professor Toshiyuki Kan)

Publication

2015

(31) "Stereocontrolled Total Syntheses of Optical Active Furofuran Lignans" Inai, M.; Ishikawa, R.; Yoshida, N.; Akao, Y.; Kawabe, Y.; Shirakawa, N.; Asakawa, T.; Egi, M.; Hamashima, Y.; Kan, T. *Synthesis* **2015**, *47*, 3513–3521.

(30) "Ecteinascidins. A Review of the Chemistry, Biology and Clinical Utility of Potent Tetrahydroisoquinoline Antitumor Antibiotics" Le, V.; Inai, M.; Williams, R. M.; Kan, T. *Nat. Prod. Rep.* **2015**, *32*, 328–347.

2014

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(28) "Total Syntheses of (+)-Sesamin and (+)-Sesaminol" Ishikawa, R.; Yoshida, N.; Akao, Y. Kawabe, Y. Inai, M.; Asakawa, T.; Hamashima, Y.; Kan, T. *Chem. Lett.* **2014**, *43*, 1572–1574. [Editor's choice and open access article]

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(25) "Practical Total Synthesis of Acromelic acid A and B" Ouchi, H.; Asahina, A.; Asakawa, T.; Inai, M.; Hamashima, Y.; Kan, T. *Org. Lett.* **2014**, *16*, 1976–1979.

(24) "Total Synthesis of (–)-SB-203207" Hirooka, Y.; Ikeuchi, K.; Kawamoto, Y.; Akao, Y.; Furuta, T.; Asakawa, T.; Inai, M.; Wakimoto, T.; Fukuyama, T.; Kan, T. *Org. Lett.* **2014**, *16*, 1646–1649.

(23) "Practical Synthesis of Kainoids: A New Chemical Probe Precursor and a Fluorescent Probe" Sasaki, S.; Suzuki, H.; Ouchi, H. Asakawa, T.; Inai, M.; Sakai, R.; Shimamoto, K.; Hamashima, Y.; Kan, T. *Org. Lett.* **2014**, *16*, 564–567.

(22) "Synthetic study of Flavonoid and its Chemical Probes" Hiza, A.; Tsukaguchi, Y.; Ogawa, T.; Inai, M.; Asakawa, T.; Hamashima, T.; Kan, T. *Heterocycles* **2014**, *88*, 1371–1396.

2013

(21) "A Facile Method to Prepare Optically Active Acyclic Ketones by Thermodynamically Controlled Deracemization" Kaku, H.; Imai, T.; Kondo, R.; Mamba, S.; Watanabe, Y.; Inai, M.; Nishii, T.; Horikawa, H.; Tsunoda, T. *Eur. J. Org. Chem.* **2013**, 8208–8213.

(20) "Stereocontrolled total synthesis of sphingofungin E" Ikeuchi, K.; Hayashi, M.; Yamamoto, T.; Inai, M.; Asakawa, T.; Hamashima, Y.; Kan, T. *Eur. J. Org. Chem.* **2013**, 6789–6792.

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(18) "Xanthouroleuconaphin: a yellowish pigment from the aphid *Uroleucon nigrotuberculatum* and its total synthesis" Nishimura, T.; Horikawa, M.; Yamada, K.; Sogabe, A.; Nishii, T.; Kaku, H.; Inai, M.; Tanaka, M.; Takahashi, S.; Tsunoda, T. *Tetrahedron* **2013**, *69*, 1808–1814.

(17) "Synthesis of Theaflavins via Biomimetic Oxidative Coupling Reaction" Kawabe, Y.; Aihara, Y.; Hirose, Y.; Sakurada, A.; Yoshida, A.; Inai, M.; Asakawa, T.; Hamashima, Y.; Kan, T. *Synlett* **2013**, *24*, 479–482.

2012

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(15) "A Total Synthesis of Yellowish Aphid Pigment Furanaphin through Fries Rearrangement Assisted by Boron Trifluoride-Acetic Acid Complex" Nishimura, T.; Iwata, T.; Maegawa, M.; Nishii, T.; Matsugasako, M.; Kaku, H.; Horikawa, M.; Inai, M.; Tsunoda, T. *Synlett* **2012**, *23*, 1789–1792.

(14) "Construction of an Asymmetric Quaternary Carbon by Asymmetric Aza-Claisen Rearrangement and its Application to a Total Synthesis of (+)- α -Cuparenone" Nishii, T.; Miyamae, F.; Yoshizuka, M.; Kaku, H.; Horikawa, M.; Inai, M.; Tsunoda, T. *Tetrahedron: Asymmetry* **2012**, *23*, 739–741.

(13) "Megouraphin Glucoside: Two Yellowish Pigments from the Aphid *Megoura crassicauda* Mordvilko" Horikawa, M.; Kikuchi, D.; Imai, T.; Tanaka, M.; Kaku, H.; Nishii, T.; Inai, M.; Takahashi, S.; Tsunoda, T. *Heterocycles* **2012**, *85*, 95–101.

2011

(12) "Promotion of Asymmetric Aza-Claisen Rearrangement of *N*-Allylic Carboxamides Using Excess Base" Yoshizuka, M.; Nishii, T.; Sasaki, H.; Kitakado, J.; Ishigaki, N.; Okugawa, S.; Kaku, H.; Horikawa, M.; Inai, M.; Tsunoda, T. *Synlett* **2011**, 2967–2970.

(11) "Viridaphin A₁ Glucoside, a Green Pigment Possessing Cytotoxicity and Antibacterial Activity from the Aphid *Megoura crassicauda* Mordvilko" Horikawa, M.; Hoshiyama, T.; Matsuzawa, M.; Shugyo, T.; Tanaka, M.; Suzuki, S.; Sato, M.; Ito, T.; Asakawa, Y.; Kaku, H.; Nishii, T.; Inai, M.; Takahashi, S.; Tsunoda, T. *J. Nat. Prod.* **2011**, *74*, 1812–1816.

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2010

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thermodynamically controlled deracemization" Kaku, H.; Nakamaru, A.; Inai, M.; Nishii, N.; Horikawa, M.; Tsunoda, T. *Tetrahedron* **2010**, *66*, 9450–9455.

2009

(5) "Solid Support Synthesis of Artificial Phospholipids" Furuta, T.; Onuki, H.; Mochizuki, M.; Ito, M.; Inai, M.; Wakimoto, T.; Kan, T. *Synlett* **2009**, 3373–3374.

(4) "Concise Synthesis of Chafurosides A and B" Furuta, T.; Nakayama, M.; Suzuki, H.; Tajimi, H.; Inai, M.; Nukaya, H.; Wakimoto, T.; Kan, T. *Org. Lett.* **2009**, *11*, 2233–2236.

(3) "Identification and characterization of flavonoids as sialyltransferase inhibitors" Hidari, K. I. P. J.; Oyama, K.; Ito, G.; Nakayama, M.; Inai, M.; Goto, S.; Kanai, Y.; Watanabe, K.; Yoshida, K.; Furuta, T.; Kan, T.; Suzuki, T. *Biochem. Biophys. Res. Commun.* **2009**, 609–613.

2008

(2) "Stereocontrolled total synthesis of (–)-myriocin" Inai, M.; Goto, T.; Furuta, T.; Wakimoto, T.; Kan, T. *Tetrahedron: Asymmetry* **2008**, *19*, 2771–2773.

2007

(1) "A Practical Total Synthesis of (+)-Antimycin A₉" Nishii, T.; Inai, M.; Kaku, H.; Horikawa, H.; Tsunoda, T. *J. Antibiot.*, **2007**, *60*, 65–72.