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Dublin, IrelandHiroaki Sasai, J Org Inorg Chem 2018, Volume 4
DOI: 10.21767/2472-1123-C4-010**NOVEL ENANTIOSELECTIVE ORGANOCATALYTIC
TRANSFORMATIONS INVOLVING RAUHUT CURRIER
REACTION****HIROAKI SASAI****THE INSTITUTE OF SCIENTIFIC AND INDUSTRIAL RESEARCH, OSAKA UNIVERSITY, JAPAN**

Novel enantioselective organocatalytic transformations involving Rauhut Currier (RC) reaction will be presented. The reaction started from symmetrical cyclohexadienones and allenates to give tetrahydrobenzofuranones bearing a chiral tetrasubstituted stereogenic center in up to 96% ee with high diastereo-, regio-, and chemo-selectivity. In addition, a facile method for the construction of methylened lactams will also be introduced. The reaction proceeds via an amidation/RC reaction sequence starting from symmetrical cyclohexadienone derivatives and acryloyl chloride promoted by a newly developed chiral acid-base type organocatalyst.

Biography

Hiroaki Sasai pursued PhD in 1985 from Keio University, Tokyo, Japan. After working as an Assistant Professor at Hokkaido University, he moved to the University of Tokyo (Lecturer and then Associate Professor) in 1992 and then moved to the current position in 1997. He is a recipient of 1995 PSJ Award for young scientists and the Fluka Prize "Reagent of the Year 1996". He also received CSJ Award for Creative Work in 2006, the Molecu-

lar Chirality Award in 2011, Synthetic Organic Chemistry Award in 2016 and Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Japan in 2018. His research interests lie in enantioselective catalysis and conceptually new functional materials.

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