Aalto University
School of Chemical Technology

School of Chemical Technology
http://chem.aalto.fi/fi/
Tel. +358 50 5222 381, Kati Sumu

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New methods for natural products synthesis

Title of the dissertation	Practical Methodologies for Amino Alcohol Based Natural Products Synthesis
Contents of the dissertation	Natural products are important molecules of Nature. Besides having exact roles in various organisms, many natural products and their modified analogs have been developed into drugs for human use. The science of natural product synthesis (total synthesis) has entered the new direction of development. In the 21st century it is increasingly important not to just make biologically active natural products in any number of steps, but to make them in as few steps as possible in innovative way. The goal is to move closer to ideal synthesis. The only way to achieve such new levels of efficiency is via invention and development of new synthesis technologies. This dissertation describes the development of three new methods for the purpose of short synthesis of amino alcohol based natural products. Some of these developed methods have been applied for the short synthesis of natural products not only in our laboratory, but also in other laboratories around the world hence highlighting their usefulness.
Field of the dissertation	Organic chemistry
Doctoral candidate	M.Sc. Andrejs Pelss born. 13.4.1982
Time of the defence	28.6.2014 at 12 noon
Place of the defence	Aalto University School of Chemical Technology, Department of Chemistry, Auditorium Ke2 (Komppa Auditorium), Kemistintie 1, (entrance from Biologinkuja), Espoo
Opponent	Professor Istvan Markó, Catholique University of Louvain, Belgium
Supervisor	Professor Ari Koskinen, Aalto University School of Chemical Technology, Department of Chemistry
Web address of the dissertation	https://aaltodoc.aalto.fi/handle/123456789/51
Doctoral candidate's contact information	M.Sc. Andrejs Pelss andrejs.pelss@aalto.fi +37125601399