



**BALTICUM
ORGANICUM
SYNTHETICUM 2022**

In memory of Prof. Victor Sniečkus

July 3-6, 2022
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PROGRAM AND ABSTRACT BOOK



**HYBRID
EVENT**

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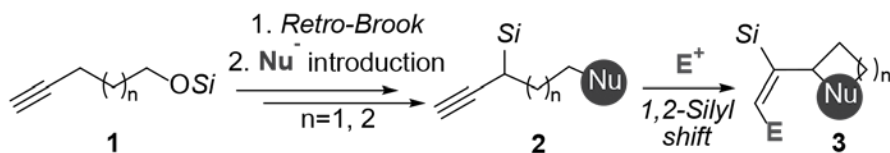
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HETEROCYCLIZATION OF TERMINALLY FUNCTIONALIZED PROPARGYL SILANES VIA 1,2-SILYL SHIFT

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Electrophilic activation of propargyl silanes has been known to induce the 1,2-silyl shift, generating allylic carbenium ions, stabilized by the β -silicon effect. In the absence of reactive nucleophiles silyl dienes as reaction products are obtained. Intramolecular Friedel–Crafts reactions in aryl-substituted propargylic systems, when activated by Brønsted acids, give access to silyl indenenes.^{1,2}

In this work we investigate the 1,2-silyl shift in propargyl silanes containing intramolecular O-, N- or S-nucleophile **2** and subsequent cyclization as a novel synthesis pathway towards 2-(1-trialkylsilyl) vinyl-substituted heterocycles **3**.



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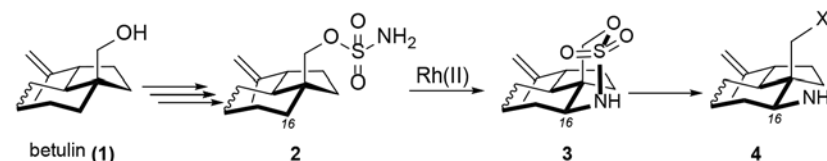
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C-H AMINATION OF PENTACYCLIC TRITERPENOIDS

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Betulin, erythrodiol and uvaol are pentacyclic triterpenoid natural products that are observed as secondary metabolites in many plants. These triterpenoids and their semi-synthetic analogs exhibit several important pharmacological properties such as antitumor, anti-inflammatory, antiparasitic, and anti-viral activities [1]. The aim of this work is to develop syntetical approach towards unexplored introduction of amino functionality at triterpenoid C(16).



For this purpose, precursors **2** bearing sulfamate ester moiety were obtained, and converted to oxathiazinanes **3** via Du Bois γ -C-H bond amination [2]. Key intermediates **3** are further converted into variously functionalized compounds **4** through the ring opening reactions.

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