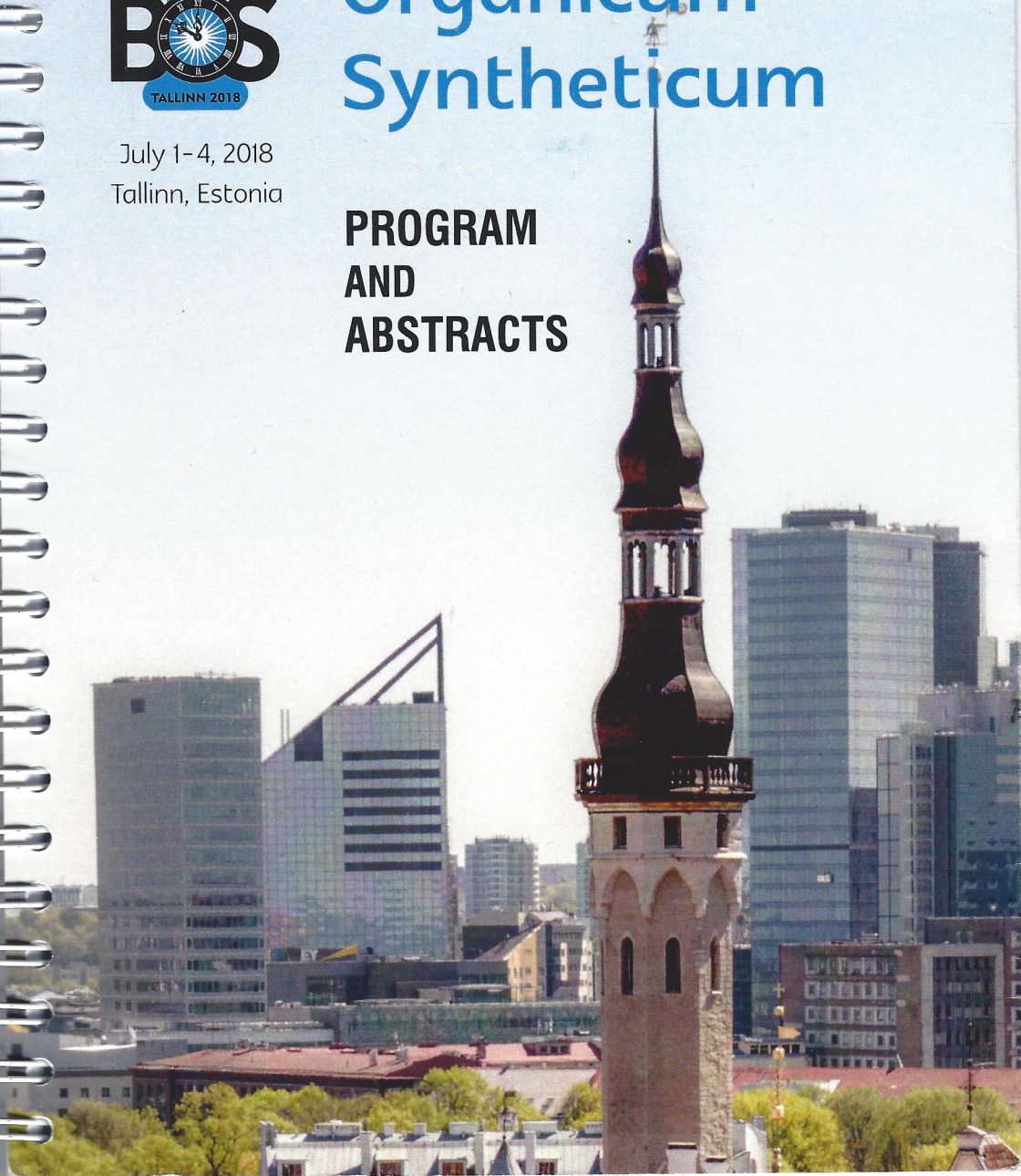


July 1-4, 2018  
Tallinn, Estonia

# Balticum Organicum Syntheticum

**PROGRAM  
AND  
ABSTRACTS**







## PROGRAM

### Sunday, July 1

From 11:00	Registration
11:30-13:30	Walking Tour in Old Town
13:15-13:45	Coffee
13:45-14:00	BOS committee welcome
14:00-15:00	PL1 <b>Karl Scheidt</b>
15:00-16:00	PL2 <b>Joshua Dunetz</b>
16:00-16:30	Coffee
16:30-17:30	PL3 <b>Veronique Gouverneur</b>
17:30-19:30	Welcome Reception

### Monday, July 2

From 8:30	Registration
9:00-10:00	Opening ceremony
10:00-11:00	PL4 <b>Dzmitry Kananovich</b>
11:00-12:00	PL5 <b>Virgil Percec</b>
12:00-12:30	Group photo
12:30-14:00	Lunch
14:00-15:00	PL6 <b>Paolo Melchiorre</b>
15:00-16:00	PL7 <b>Lauren Sirois</b>
16:00-16:30	Coffee
16:30-17:30	PL8 <b>Huw Davies</b>
17:30-19:00	Poster session I
19:00-21:00	Walking Tour in Old Town

### Tuesday, July 3

8:45-9:00	Welcome and updates
9:00-10:00	PL9 <b>Pavel Arsenyan</b>
10:00-11:00	PL10 <b>Robert Grubbs</b>
11:00-11:25	Coffee
11:25-11:35	Thieme presentation
11:35-12:35	Thieme lecturer: <b>Ruben Martin</b>
12:35-13:30	Lunch
13:30-14:30	PL11 <b>Martin Maier</b>
14:30-15:30	PL12 <b>Cheng Yi Chen</b>
15:30-16:00	CAS SciFinder coffee break
16:00-17:00	PL13 <b>Jeffrey Seeman</b>
17:00-18:30	Poster session II
19:30	Banquet at the House of the Blackheads

### Wednesday, July 4

8:45-9:00	Welcome and updates
9:00-10:00	PL14 <b>Vytautas Getautis</b>
10:00-11:00	PL15 <b>Martin Eastgate</b>
11:00-11:30	Thieme Poster Prizes
11:30-13:00	Lunch
13:00-14:00	PL16 <b>Jean Marie Lehn</b>
14:00-15:00	PL17 <b>Thomas Colacot</b>
15:00-16:00	PL18 <b>Antonio Togni</b>
16:00-16:30	Closing



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## Novel Method for the Synthesis of 6-Azido-2-sulfonylpurine Derivatives

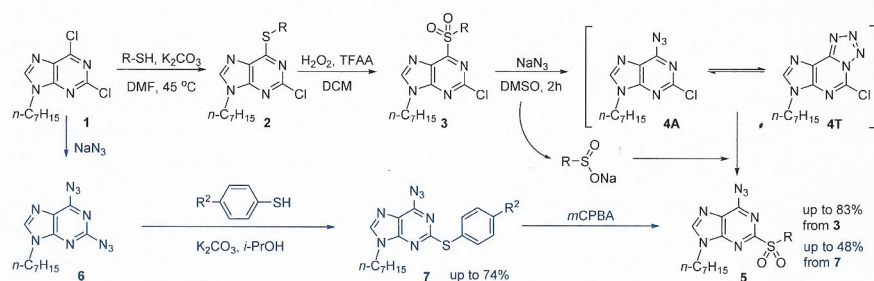
Jānis Mikelis Zakis, Andris Jeminejs, Kristers Ozols, Ērika Bizdēna, Irina Novosjolova, Māris Turks

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Purine derivatives are widely studied due to their biological properties and application in medicine. Thiopurine derivatives are already being used in treatment of cancer and autoimmune disorders.<sup>1</sup>

We have observed a sulfonyl group dance when substrate **3** was treated with NaN<sub>3</sub>. The transformation which lead to product **5** can be explained by azido-tetrazolo tautomerism. The latter activates purine cycle towards S<sub>N</sub>Ar reaction at C2. Reaction conditions were optimized and the best results were achieved using NaN<sub>3</sub> and DMSO. Under these conditions sulfonyl group dance both with alkyl and aryl sulfones gave good yields.

Additionally, a different synthetic approach for the synthesis of 6-azido-2-arylthiopurine derivatives **7** was developed. The optimized reaction conditions (*i*-PrOH solution) provide arylthioderivatives **7** with good yields up to 74%. Further oxidation lead to 2-arylsulfonyl-derivatives **5**.



### References:

1. Sahasranaman, S., Howard D., Roy S. *Eur. J. Clin. Pharmacol* **2008**, 64, 753–767.