



**Balticum Organicum Syntheticum 2024**

July 7 - 10 | Riga, Latvia

# Abstract Book

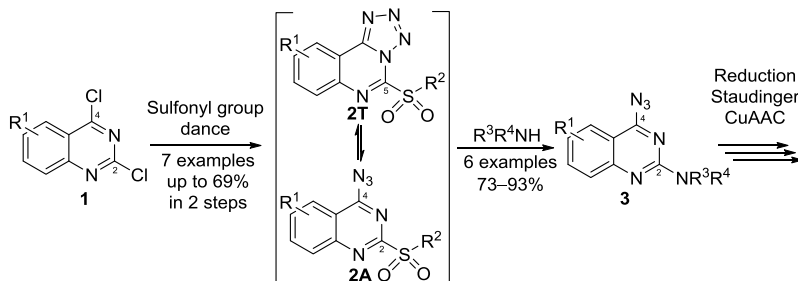
# Targeted C2 Modification of Quinazolines Using Azide-Tetrazole Tautomerism

**Dāgs Dāvis Līpiņš, Irina Novosjolova**

Riga Technical University, Faculty of Natural Sciences and Technology,  
Institute of Chemistry and Chemical Technology, Latvia  
*dags-davis.lipins@rtu.lv*

Several methods for the modification of quinazoline C4 position are known, but the modification of the C2 position still poses a challenge.<sup>1</sup>

We report the use of the sulfonyl group dance<sup>2</sup> for the synthesis of 4-azido-2-sulfonylquinazolines **2**, which obey selective C2 substitution in S<sub>N</sub>Ar reactions. We show further modification of products **3** in Staudinger and CuAAC reactions, as well as in reduction reactions for the synthesis of α<sub>1</sub>-blockers terazosin and prazosin.



## Acknowledgements

This work was supported by the Latvian Council of Science grant No. LZP-2020/1-0348.

## References

- Karan, R.; Agarwal, P.; Sinha, M.; Mahato, N. *ChemEngineering* **2021**, *5*.
- Zaķis, J. M.; Ozols, K.; Novosjolova, I.; Vilškersts, R.; Mishnev, A.; Turks, M. *J. Org. Chem.* **2020**, *85*, 4753.