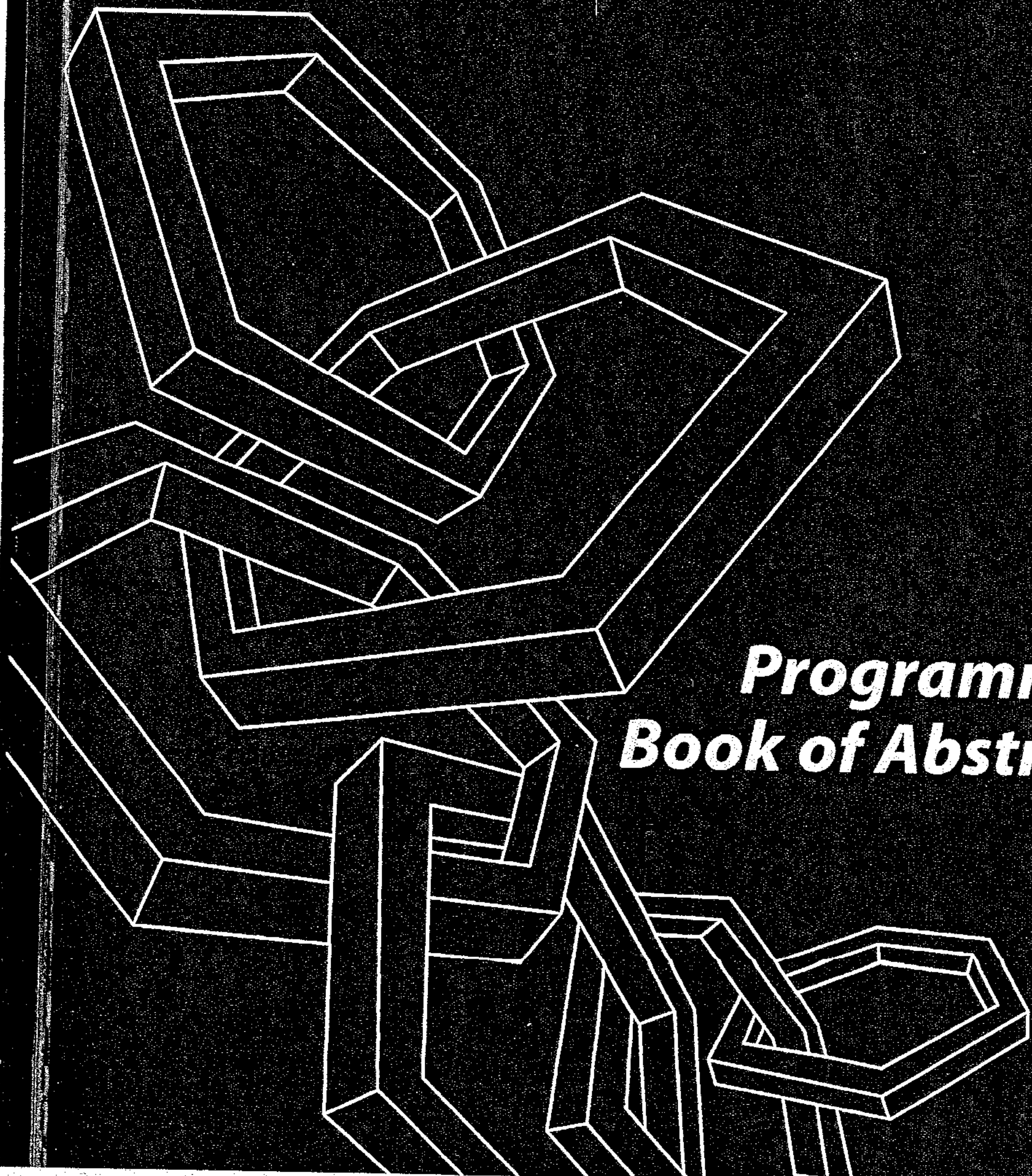


# **BOSS** | *XII*

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# PEPTIDOSACCHARIDES AND THEIR TRIAZOLE ISOSTERES

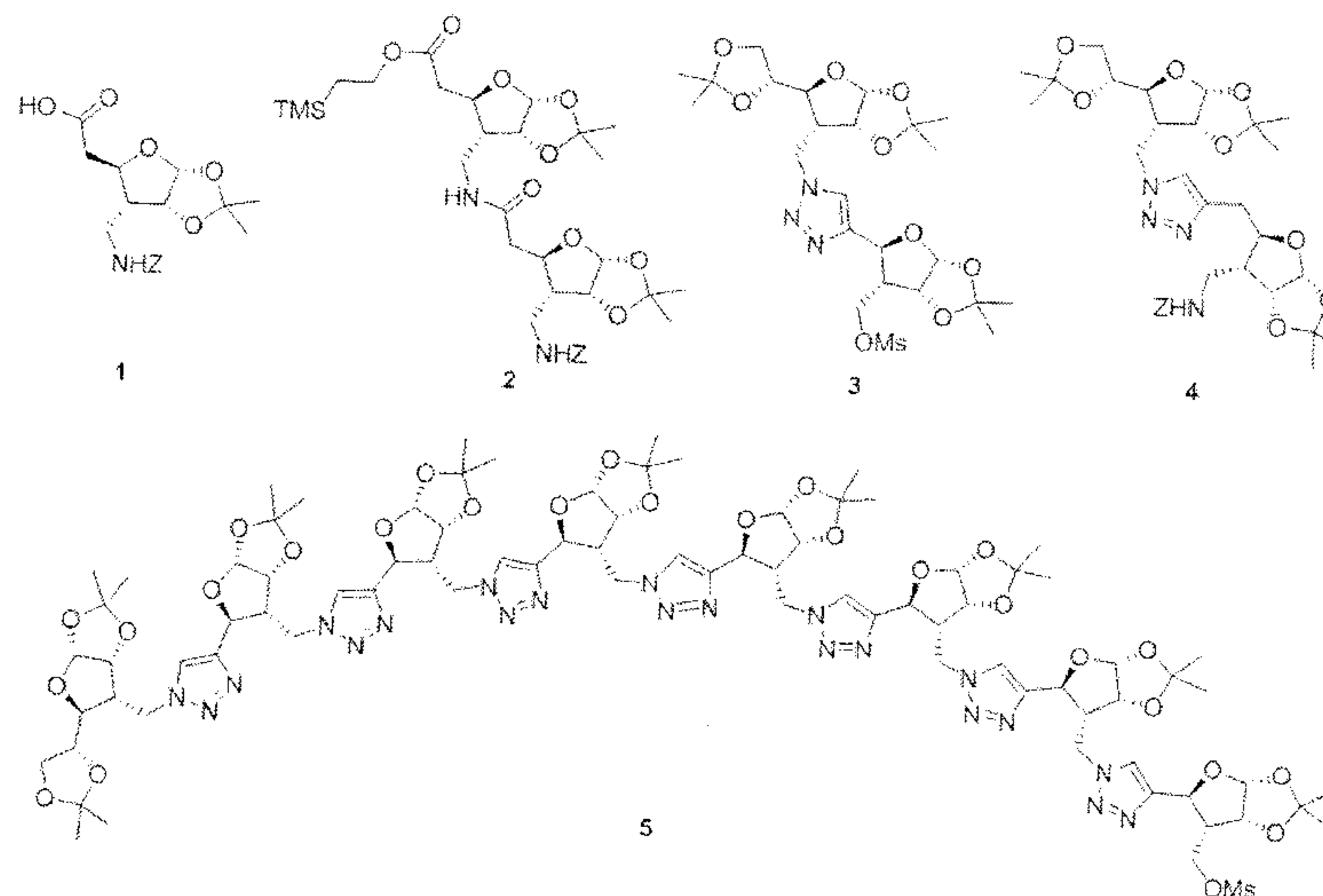
Vitālijs Riabovs and Māris Turks\*

Faculty of Material Science and Applied Chemistry, Riga Technical University, Riga, LV-1007, Latvia  
maris\_turks@ktf.rtu.lv

Combination of amino and carboxylic functionalities in the carbohydrate template – the sugar amino acids (SAAs) – have attracted a lot of attention in last decades<sup>1</sup> mainly because of possible biological activities as it could be presumed by analogy with sialic and neuraminic acids. Oligopeptides arising from synthetic SAAs exhibited interesting self assembling structures in solution, and were intensively studied as peptidomimetics.<sup>2</sup>

Later, after the discovery of click synthesis of 1,2,3-triazoles,<sup>3</sup> triazoles were studied as amide bond isosteres and showed similarities in the spatial arrangement and geometry.<sup>4</sup>

Here, we present synthesis of novel sugar amino acid **1** and its dipeptide **2** as well as synthesis of triazole-linked disaccharides **3** and **4** and oligosaccharide **5**. Different synthesised triazoles **3** and **4** are being compared to the dipeptide **2** and oligomer **5** was studied by means of NMR and CD spectra for possible secondary structure formation.



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