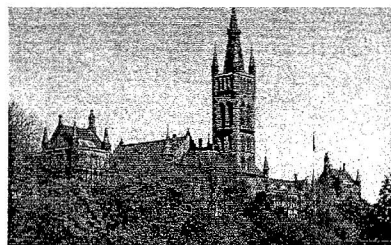
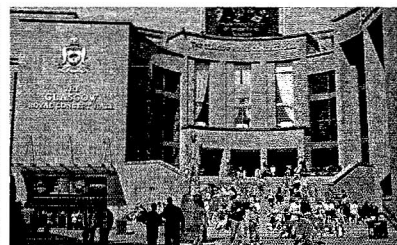
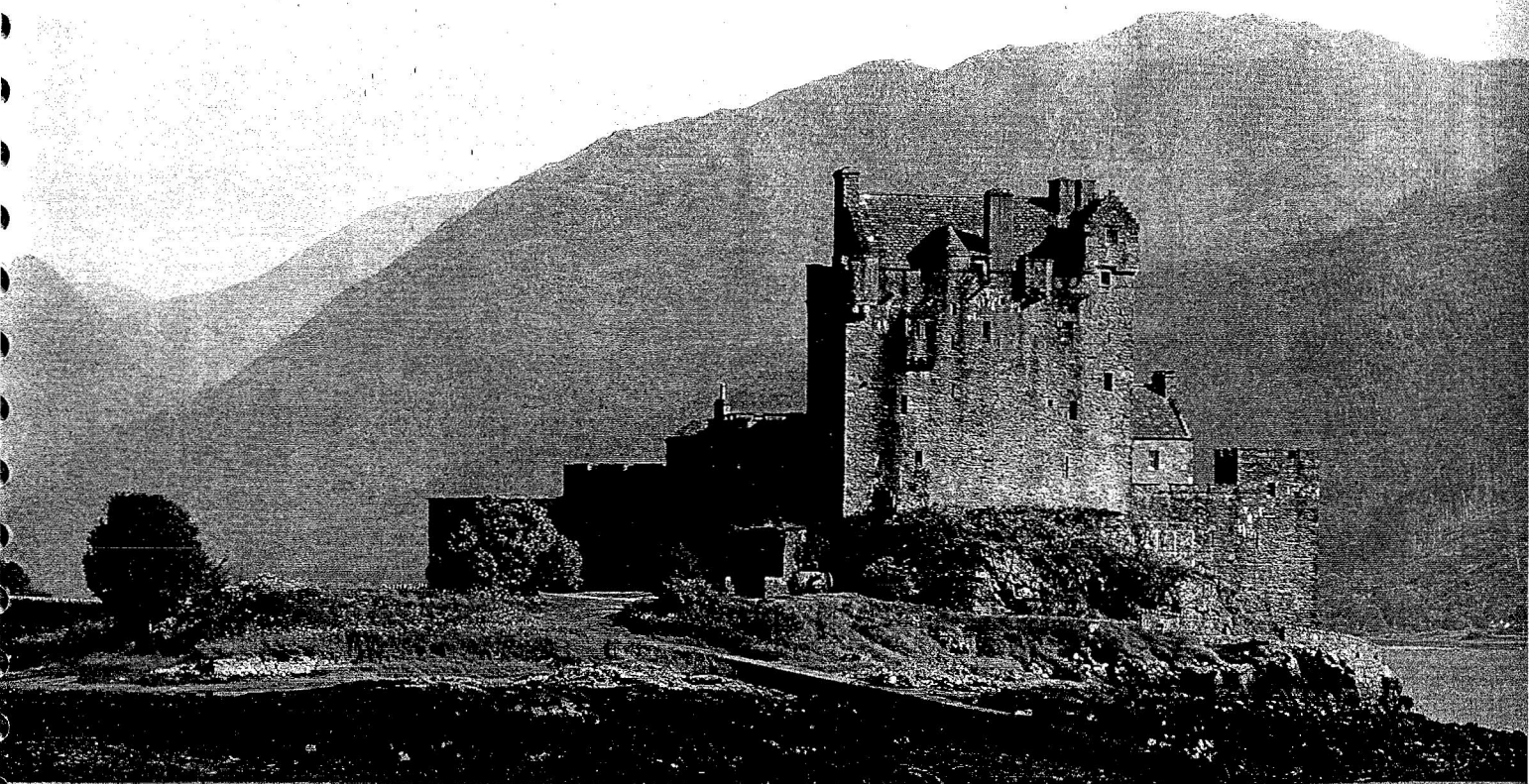


15TH IUPAC INTERNATIONAL SYMPOSIUM
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ABSTRACT BOOK



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Copper- and Ruthenium-Catalyzed "Clicking" of Carbohydrate Derivatives

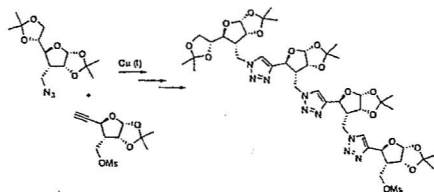
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In less than 10 years since definition of "Click Chemistry" by K. B. Sharpless,¹ the CuAAC² has become a widely used chemical tool for modifying various molecular scaffolds. On the other hand, RuAAC provides a possibility for the synthesis of highly functionalized 1,5-disubstituted 1,2,3-triazoles³.

Besides the evaluation of their biological activity,⁴ 1,4- and 1,5-disubstituted 1,2,3-triazoles were studied as peptidomimetics,^{5,6} nucleotide and DNA analogues,^{7,8} and carbohydrate arrays.⁹

In our work, we present Cu(I) and Ru(II) catalyzed synthesis of triazole-linked sugars as peptidosaccharide mimetics. Performance of various catalytic systems (precatalyst, ligands, additives) as well as secondary structures of obtained products will be reported.



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