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Pyrimidino-pyranoside: A scaffold for drug discovery

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The use of carbohydrate-based scaffolds for the construction of biologically active compounds is now a well-accepted concept. Our work consists of constructing a bicyclic glucosidic scaffold and studying its potential functionalization for the peptidomimetic design. Starting from methyl α -D-mannopyranoside, we

describe rapid access to chiral bicyclic sugar scaffold and its functionalization via Palladio-catalyzed reactions (Suzuki and Stille). The cleavage of benzylidene acetal was carried out by acidic hydrolysis and different alkylation methods with alkyl halides were investigated. This work will provide rapid access to small libraries of new analogs of peptidic receptor ligands (RGD) implied in pathology like cancer and thrombosis.

Biography

Issa is currently working as a Senior Lecturer in Organic and Bioorganic Chemistry, Head of the Chemistry Department and Head of the Organic and Therapeutic Chemistry Research Team at the Alioune DIOP Bambey

University of Senegal. Issa has done PhD in Molecular Chemistry and Physico-Chemistry from the Henri Poincare University (UHP) in Nancy. He is also an Associate researcher at the Institute of Chemistry of Nice, UMR 7272, CNRS of Nice and the Research Institute of Chemistry Paris, UMR-CNRS 8247, ENSCP, ParisTech. His research activities include Synthesis of new biologically active molecules for the creation of new drugs, Chemistry and Processes for Sustainable Development and Reactions to Atomic Economy and Respectful of the Environment. He has done his Postdoc research at the Institute of Chemistry of Nice (ICN), UMR 7272 CNRS of Nice Cote d'Azur University financed by a French Cooperation Grant in 2018, the Institute of Chemistry and Materials Paris-East (ICMPE), Temporary Attaché of Education and Research (ATER)- IUT Vitry-Creteil of the University of Paris-East Créteil Val de Marne (UPEC) from 2012-2013 and at the Paris Chemistry Research Institute (IRCP)-UMR-CNRS 8247 – ENSCP, ParisTech. ANR-CNRS from 2009-2012.

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