

Glycobiology World Congress

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Novel carbohydrate-based ligands with immunostimulatory properties

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We are interested in the synthesis and biological evaluation of new carbohydrate structures with the capacity to act as immunomodulators. Towards these ends we have synthesized molecules as mimics of capsular saccharides. These highly simplified saccharide structures have been shown to act as TLR4 agonists and to elicit the secretion of the proinflammatory cytokines at concentrations lower than the known agonist, *E. coli* lipopolysaccharide. In this presentation, we will discuss the synthetic efforts towards a lead compound and the preliminary biological data obtained for this compound. Efforts to elucidate the mechanism of action of this molecule will be discussed in this presentation.

Biography

Cecilia H Marzabadi has completed her PhD at the University of Missouri-St. Louis and carried out her Postdoctoral studies at Hunter College- CUNY. She has been at Seton Hall University for the past 15 years and has been a Visiting Professor at Harvard University Medical School and a Visiting Researcher at Memorial Sloan Kettering Cancer Center. She has published numerous papers in the carbohydrate literature and currently serves as a Member at Large for the ACS Division of Carbohydrate Chemistry.

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