



Subash Jonnalagadda

Associate Professor

Chemistry & Biochemistry/Molecular & Cellular Biosciences

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Education:

BS (Chemistry), Pondicherry University, India

MS (Chemistry), University of Hyderabad, India

PhD (Organic Chemistry), Purdue University

Postdoctoral (Organic Chemistry), University of Pennsylvania

Postdoctoral (Medicinal Chemistry), University of Minnesota

Research Expertise:

Organic & Medicinal Chemistry | Organoboron Chemistry | Alternate Energy Materials

Medicinal Chemistry: We have been developing novel aza- and bora-heterocyclic compounds and betulin-based natural product derivatives as anti-cancer agents. In collaboration with Rowan School of Osteopathic Medicine, we have also identified few Withaferin-serotonin conjugates as potential therapeutic options for the treatment of Alzheimers' Disease.

Value Added Chemicals from Biomass: Recent efforts in this area have included the development of new protocols for the effective conversion of biomass derived cellulosic materials into chemicals such as hydroxymethyl furfural and furan dicarboxylic acid for applications as bio-based polymers.

Honors and Awards:

Rowan University Wall of Fame Teaching Award, 2013, 2016

Eli Lilly International Graduate Scholar, 2000-2005, Purdue University

Member of:

American Chemical Society (www.acs.org)

Recent Publications:

Suman P, Patel A, Solano LN, Jampana G, Gardner Z, Holt CM, Jonnalagadda SC (2017) Synthesis and cytotoxicity of Baylis-Hillman template derived betulinic acid-triazole conjugates. *Tetrahedron*. 73:4214-4226.

Alam MA, Arora K, Gurrupu S, Jonnalagadda SK, Nelson GL, Kiprof P, Jonnalagadda SC, Mereddy VR (2016) Synthesis and evaluation of functionalized benzoboroxoles as potential anti-tuberculosis agents *Tetrahedron*. 72:3795-3801.

Suman P, Patel BP, Kasibotla AV, Solano LN, Jonnalagadda SC (2015) Synthesis and evaluation of functionalized amino-benzoboroxoles as potential anti-cancer agents. *J Organomet Chem*. 798:125-131.

Jain A, Jonnalagadda SC, Ramanujachary KV, Mugweru A (2015) Selective oxidation of 5-hydroxymethyl-2-furfural to furan-2,5-dicarboxylic acid over spinel mixed metal oxide catalyst, *Catalysis Commun*. 58:179-182.

Jain A, Shore AM, Jonnalagadda SC, Ramanujachary KV, Mugweru A (2015) Conversion of fructose, glucose and sucrose to 5-hydroxymethyl-2-furfural over mesoporous zirconium phosphate catalyst, *Appl Catalysis A*. 489:72-76.