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**Adjuvant effect of glycopospholipid analogues on the immune responses to ovalbumin in mice**

**Bonam Srinivasa Reddy, M C Preethi Pallavi, Debabrata Bhunia and H M Sampath Kumar**  
CSIR-Indian Institute of Chemical Technology, India

Synthetic adjuvants are one of the emerging trends in vaccine research. In an effort to develop a new class of vaccine adjuvant, we designed a focused library of synthetic glycopospholipids as immune potentiators. The *in vitro* preliminary evaluation has paved way for a lead molecule which was taken up for detailed *in vivo* adjuvant studies with a model antigen ovalbumin. Efficacy of a vaccine is based on stimulating both innate immunity and adaptive immunity. Therefore the antigen specific IgG response and its isotypes (IgG1 and IgG2a) were evaluated, followed by cytokines for humoral and cell-based immune responses were studied. Immunophenotyping of cells were also quantified proving the efficacy of glyco-lipid analogue as more desirable adjuvant.

**Biography**

Bonam Srinivasa Reddy is currently pursuing PhD in AcSIR, working in Vaccine Immunology Laboratory, NPC Division of Indian Institute of Chemical Technology Hyderabad. He has completed M Pharmacy (Pharmacology) from Acharya Nagarjuna University. He worked as a trainer for the ICMR sponsored "Workshop on Experimental Pharmacology" (2012) and is a recipient of AAPS travel award from CIPS for attending IPSCON-2012, at Nagpur. He has published 3 research articles in reputed international journals and filed a patent. He also chaired the CIPS-AAPS student chapter and currently holding professional life memberships with Society of Toxicology (STOX), Laboratory Animal Scientists Association (LASA), Indian Pharmacological Society (IPS), Indian Pharmaceutical Society (IPA) and Academy of Sciences for Animal Welfare (ASAW). He has made several oral and poster presentations in various national and international conferences.

[bsrpharmacy80@gmail.com](mailto:bsrpharmacy80@gmail.com)

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