Vaccine Adjuvant Formulations: A Pharmaceutical Perspective
P. Malyala
1Andhra University
Role of formulation science is often times an overlooked aspect in the field of vaccinology and a pharmaceutical perspective on these complex molecules will help us understand if vaccines are indeed amenable to platform approaches. Antigen-adjuvant relationship impacts immune response, more so with increased complexity of antigen and adjuvant formulations. Hence, a well characterized robust formulation is critical to ensure robust and reproducible results throughout preclinical and clinical studies. Key attributes need to be identified for generation of well characterized adjuvant formulations. Challenges and opportunities of five well established vaccine adjuvant platforms: Alum, Emulsions, Liposomes, PLG particulate systems, in addition to immune stimulatory molecules will be covered.