Tentative Outline

Special/Thematic Issue for the journal: Current Pharmaceutical Design - CPD

Tentative Title: Lyophilization/freeze drying for the stabilization of biotherapeutics Guest Editor: Arun Butreddy

Scope of the Thematic Issue:

The scope of this issue is to enumerate the Lyophilization process in Protein/small molecule Product development. Over the years, lyophilization process has been an emerging technology for the stabilization of bio-therapeutics including vaccines, monoclonal antibodies, enzymes, anti-body drug conjugates, gene therapy products, and small molecule drug products. This issue will largely focus on emergence of Lyophilization process in Pharmaceutical product development prospective from protein formulation development, process analytical techniques, excipients, scale-up considerations, recent advances in lyophilization process.

Keywords: Lyophilization, scale-up, stabilization, proteins, small molecules, Process analytical tools, excipients.

Sub-topics:

- Stabilization of protein formulations via lyophilization process
- Scale-up considerations for lyophilization
- Process analytical tools in optimization of lyophilization
- Excipients for use in lyophilized formulations
- Anti-body drug conjugates: Lyophilization considerations

Tentative titles of the articles:

- Stabilization of protein formulations via lyophilization process: Advances, challenges
- Excipients for use in lyophilized formulations
- A review on analytical techniques in lyophilized proteins formulations
- Scale-up considerations of lyophilization process
- Lyophilization of exosomal formulations
- Stabilization of nanoparticles loaded proteins/peptides.

Schedule:

♦ Complete Thematic issue submission deadline: 30.12.2022

Details of Guest Editors:

Guest Editor Name: Arun Butreddy, Ph.D.

Affiliation: Scientist-I, Protein Pharmaceutical Development, Biogen Inc, Cambridge,

Massachusetts- 02142

Email: butreddyarun@gmail.com