Tentative Outline

Special Issue for Current Nanomedicine

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Title: Nanopharmaceutical Development using Quality by Design: A State-of-the Art Approach

Aims & Scope: As per the US Food & Drug Administration (FDA), nanopharmaceuticals are the specialized pharmaceutical products with particle size in the nanometric range. A wide range of systems are available with nanosized dimensions with their applications in medicine including dentistry, drug delivery, diagnostic imaging, etc. for the treatment and management of diverse diseases. The development of nanopharmaceutical products is a fastidious process and tends to encounter lot of variables for converting the raw materials into the finished products. This involves high degree of variability in attaining the finished products with poor quality consistency. In order to establish a pharmaceutical quality system, FDA instituted the concept of Quality by Design (QbD) as a proactive approach for augmenting the product quality. Vast research reports have been published on extreme usefulness of the QbD paradigms in nano-based product development. In this regard, the current special issue will particularly focus on the vital QbD precepts and prospects for the development of nanopharmaceuticals with additional emphasis on regulatory updates. The experts including academic and industrial scientists will be the potential contributors for this issue who will share their experience on the focused area.

Key words: Quality by Design; Nanomedicines; Product variability; Robustness; Optimization

Subject coverage: Topics areas include, but not limited to:

Quality by Design Approach for the Development of

1. Polymeric nanoparticles
2. Lipidic nanoparticles
3. Liposomal products
4. Nanotopical products
5. Nanotransdermal products
6. Nanomaterials & nanocomposites
7. Regulatory perspectives

Schedule:
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