

Special Issue

Quality by Design in Pharmaceutical Manufacturing

Message from the Guest Editors

Ensuring quality in pharmaceutical manufacturing is essential to producing drug products that meet safety and efficacy standards. By emphasizing a deeper understanding of the process and identifying critical quality attributes early, Quality by Design (QbD) enables the control of key variables, ensuring product consistency while minimizing risks to both patients and manufacturers. As an integrated approach, QbD incorporates analytical tools to design, analyze, and control manufacturing processes throughout the product lifecycle, along with modern methodologies such as modeling and simulation to gain a deeper understanding of the clinical impact of product and process variables. This Special Issue focuses on exploring the practical application of QbD principles in pharmaceutical manufacturing, highlighting the latest developments and trends in the field, with particular emphasis on studies that demonstrate how QbD enhances process robustness, optimizes product quality, and accelerates the development of new therapeutic solutions.

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