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Development of Process Analytical Technologies (PAT) for Dairy and Infant Formula Manufacture

Guest Editor:

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Message from the Guest Editor

The new paradigm in the food industry is Quality by Design (QbD), inspired by the Process Analytical Technology (PAT) concept introduced originally for pharmaceutical manufacture. The hypothesis behind this paradigm shift is that the quality of the (food) products can and should be incorporated by process design and not by postproduction quality testing. Process Analytical Technology (PAT) is a framework for innovative process manufacturing and quality assurance through timely measurements (i.e., in-line monitoring) of critical quality attributes. The potential impact of PAT on product quality and safety, process efficiency and yields is tremendous. Smart sensing solutions can not only provide real-time quality assurance but also provide "big data" which facilitates increased product traceability as product batches can be referenced to their processing history. The aim of this Special Issue is to present an overview of the latest applications of feasible PAT tools for both the dairy industry and the academic community.







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Message from the Editor-in-Chief

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