



Drug Release Mechanisms Elucidated by Imaging Techniques: Visualizing the Invisible!

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Message from the Guest Editor

Dear colleagues,

This Special Issue collects publications elucidating the power of versatile imaging techniques to explain mass transport mechanisms from drug delivery devices of any kind.

Drug release mechanisms can be highly complex especially with controlled delivery devices, such as coated or matrix systems for delayed and sustained release or drug delivery devices for improved bioavailability of insoluble drugs. Understanding the underlying mass transport mechanisms can often be misinterpreted when only theoretical methods are applied. A profound understanding of the fate of the drug molecule within the dosage form during dissolution can be gained by rendering the drug visible during its way out of the device. Analytical spectroscopic, microscopic, tomographical, or other imaging techniques can be used to do so, for example. They allow to paint a clear picture on what is going on within diverse drug delivery devices during dissolution and thus help development of reliable dosage forms.

Dr. Susanne Muschert
Guest Editor





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Message from the Editor-in-Chief

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