



Phenotypic Screening in Drug Discovery

Guest Editor:

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Message from the Guest Editor

Dear colleagues,

This Special Issue invites contributions from the field of complex in vitro disease models and phenotypic screening—including high content screening approaches. The focus should be on cell- and tissue-based, physiologically-relevant model systems for a broad spectrum of diseases. Ideally, some of the aspects that make up functional tissues should be addressed and included, such as the extracellular matrix and the interaction of various cell types that recapitulate various characteristics of normal or diseased tissue architectures. The contributions can include three-dimensional cell culture and co-culture methods, microfluidics, and tools for the quantitative assessment of phenotypic characteristics, such as automated image analyses and/or machine learning tools for computational image analyses.

We aim towards including a relatively broad spectrum of technical, but also biological novelties in the field, which will contribute to the future development of phenotypic (drug) screens in applied and academic research.

Prof. Matthias Nees

Guest Editor



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Special Issue