

## **Proteomics for the Drug Development Process**

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Drug discovery is a real interdisciplinary endeavour, and Proteins are the principal targets for the drug development process. A multitude of competitive techniques are applied for the ultimate approach to develop a „successful“ drug. Proteomics is a discipline with a powerful tool-box to investigate proteins, and it is in competition to deliver relevant information with techniques used in genomics, transcriptomics and metabolomics. What is a successful drug, and what is the impact of proteomics for the drug development process? In the attempt to describe it, a brief discussion of the drug discovery process will focus on preclinical research. The identification of small-molecule modulators of protein function and the process to transform hits into optimized leads are the key activities in modern drug discovery. Project timelines are extremely tight and each step has to progress effectively in order to support the pharma value chain.