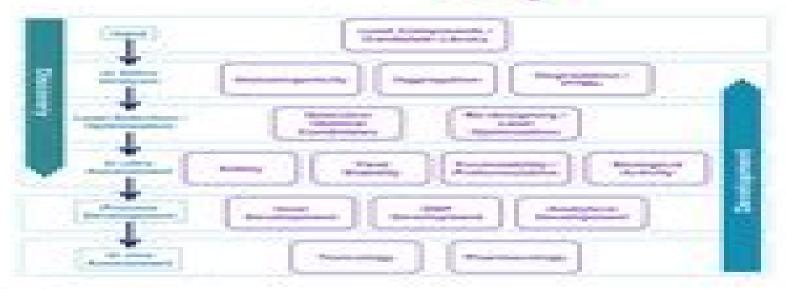
# DEVELOPABILITY OF BIOTHERAPEUTICS

Computational Approaches

Sandeep Kumar Satish Kumar Singh







# <u>Developability Biotherapeutics Computational Sandeep</u> <u>Kumar</u>

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**Developability of Biotherapeutics** Sandeep Kumar, Satish Kumar Singh, 2015-11-18 Biopharmaceuticals are emerging as frontline medicines to combat several life threatening and chronic diseases However such medicines are expensive to develop and produce on a commercial scale contributing to rising healthcare costs Developability of Biotherapeutics Computational Approaches describes applications of computational and molecular **Progress and challenges in** computational structure-based design and development of biologic drugs Traian Sulea, Sandeep Kumar, Daisuke **Biopharmaceutical Informatics** Sandeep Kumar, Andrew Nixon, 2025-01-22 Despite the Kuroda.2024-03-25 phenomenal clinical success of antibody based biopharmaceuticals in recent years discovery and development of these novel biomedicines remains a costly time consuming and risky endeavor with low probability of success To bring better biomedicines to patients faster we have come up with a strategic vision of Biopharmaceutical Informatics which calls for syncretic use of computation and experiment at all stages of biologic drug discovery and pre clinical development cycles to improve probability of successful clinical outcomes Biopharmaceutical Informatics also encourages industry and academic scientists supporting various aspects of biotherapeutic drug discovery and development cycles to learn from our collective experiences of successes and more importantly failures The insights gained from such learnings shall help us improve the rate of successful translation of drug discoveries into drug products available to clinicians and patients reduce costs and increase the speed of biologic drug discovery and development Hopefully the efficiencies gained from implementing such insights shall make novel biomedicines more affordable for patients This unique volume describes ways to invent and commercialize biomedicines more efficiently Calls for digital transformation of biopharmaceutical industry by appropriately collecting curating and making available discovery and pre clinical development project data using FAIR principles Describes applications of artificial intelligence and machine learning AIML in discovery of antibodies in silico DAbI starting with antigen design constructing inherently developable antibody libraries finding hits identifying lead candidates and optimizing them Details applications of AIML physics based computational design methods and other bioinformatics tools in fields such as developability assessments formulation and excipient design analytical and bioprocess development and pharmacology Presents pharmacokinetics pharmacodynamics PK PD and Quantitative Systems Pharmacology QSP models for biopharmaceuticals Describes uses of AIML in bispecific and multi specific formats Dr Sandeep Kumar has also edited a collection of articles dedicated to this topic which can be found in the Taylor and Francis journal mAbs Bioprocessing, Bioengineering and Process Chemistry in the Biopharmaceutical Industry Kumar Gadamasetti, Stephen A. Kolodziej, 2024-11-23 This book outlines how advances in the diverse scientific and engineering disciplines of synthetic biology DNA synthesis production of protein therapeutics and bioinformatics have led to the commercialization of new complex biotherapeutic modalities in modern era including monoclonal and multi specific antibodies antibody drug

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