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Computational Methods in Synthetic Biology

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Monika Heiner, Adelinde M. Uhrmacher



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Computational Methods in Systems Biology Monika Heiner, Adelinde M. Uhrmacher, 2008-10-05 This book constitutes the refereed proceedings of the 6th International Conference on Computational Methods in Systems Biology CMSB 2008 held in Rostock Germany in September 2008 The 21 revised full papers presented together with the summaries of 5 invited papers were carefully reviewed and selected from more than 60 submissions The papers cover theoretical or applied contributions that are motivated by a biological question focusing on modeling approaches including process algebra simulation approaches analysis methods in particular model checking and flux analysis and case studies

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Synthetic Biology, Part A Chris Voigt, 2011-07-08 Synthetic biology encompasses a variety of different approaches methodologies and disciplines and many different definitions exist This Volume of Methods in Enzymology has been split into 2 Parts and covers topics such as Measuring and Engineering Central Dogma Processes Mathematical and Computational Methods and Next Generation DNA Assembly and Manipulation Encompasses a variety of different approaches methodologies and disciplines Split into 2 parts and covers topics such as measuring and engineering central dogma processes mathematical and computational methods and next generation DNA assembly and manipulation

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Synthetic Biology Jeffrey Carl Braman, 2024-03-11 This second edition provides new and updated techniques and applications associated with synthetic biology Chapters guide readers through the creation and regulation of gene circuits manipulation of biochemical pathways genome editing and modification creating genome language and computing as well as molecular assembly Written in the highly successful *Methods in Molecular Biology* series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge *Synthetic Biology Methods and Protocols Second Edition* aims to ensure successful results in the further study of this vital field

Computational Intelligence Methods for Bioinformatics and Biostatistics Claudia Angelini, Paola MV Rancoita, Stefano Rovetta, 2016-07-30 This book constitutes the thoroughly refereed post conference proceedings of the 12th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2015 held in Naples Italy in September 2015 The 21 revised full papers presented were carefully reviewed and selected from 24 submissions They present problems concerning computational techniques in bioinformatics systems biology and medical informatics discussing cutting edge methodologies and accelerate life science discoveries as well as novel challenges with an high impact on molecular biology and translational medicine

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