



Synthetic Biology, 3 Teile

By Smolke, Christina / Lee, Sang Yup

Condition: New. Publisher/Verlag: Wiley-VCH | Parts, Devices and Applications | A review of the interdisciplinary field of synthetic biology, from genome design to spatial engineering. Written by an international panel of experts, Synthetic Biology draws from various areas of research in biology and engineering and explores the current applications to provide an authoritative overview of this burgeoning field. The text reviews the synthesis of DNA and genome engineering and offers a discussion of the parts and devices that control protein expression and activity. The authors include information on the devices that support spatial engineering, RNA switches and explore the early applications of synthetic biology in protein synthesis, generation of pathway libraries, and immunotherapy. Filled with the most recent research, compelling discussions, and unique perspectives, Synthetic Biology offers an important resource for understanding how this new branch of science can improve on applications for industry or biological research. Advanced Biotechnology Biotechnology is a broad, interdisciplinary field of science, combining biological sciences and relevant engineering disciplines, that is becoming increasingly important as it benefits the environment and society as a whole. Recent years have seen substantial advances in all areas of biotechnology, resulting in the emergence of brand new fields. To reflect this progress, Sang-Yup Lee (KAIST,...



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