1. Record Nr. UNINA9910404219003321

Autore	Joaquim Ramos de Carvalho
Titolo	Historia, Tecnologias Digitais e Mobile Learning: ensinar Historia na era digital
Pubbl/distr/stampa	Coimbra University Press, 2019
ISBN	989-26-1705-3
Descrizione fisica	1 online resource (216 p.)
Collana	Investigação
Lingua di pubblicazione	Portoghese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The book "History, Digital Technologies and Mobile Learning: Teaching History in the Digital Age" presents us with a set of reflections about the relationship between History, Education and Technologies, with particular attention to teaching History through mobile technologies. These are current, important and necessary reflections, especially when we consider the conditions we have experienced in the context of digital culture. Based on a theoretical-experimental study, the friends and researchers Sara Dias-Trindade and Joaquim Carvalho offer us an exquisite critical-reflexive and propositive analysis on some possibilities of incorporating digital information and communication technologies in the teaching-learning process in the area of Story. It is the coroation of an intense work and commitment of the authors to contribute as much to the area of Education and Technologies as to its base area: History. Certainly, with this fruit of their efforts, the scientific and educational community gained a lot. [Daniel Mill]

2. Record Nr. UNINA9910409699303321

Titolo	Advances in Synthetic Biology / / edited by Vijai Singh
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-0081-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIII, 349 p. 75 illus., 63 illus. in color.)
Disciplina	660.6
Soggetti	Bioinformatics Biotechnology Molecular genetics Medical genetics Electronic circuits Computational and Systems Biology Chemical Bioengineering Molecular Genetics Medical Genetics Electronic Circuits and Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Introduction to Synthetic Biology -- Chapter 2. Current progress in synthetic genetic networks -- Chapter 3. Current Progress and Limitations in the Design, Construction and Characterization of Synthetic Parts -- Chapter 4. Recent progress in DNA parts standardization and characterization -- Chapter 5. Current status and challenges of DNA sequencing -- Chapter 6. Biomimetic approaches in synthetic biology -- Chapter 7. Design principles of synthetic biological oscillators -- Chapter 8. SOFTWARE-AIDED DESIGN OF IDEALISED PROGRAMMABLE NUCLEIC ACID CIRCUITS -- Chapter 9. Digital Circuit Design for Biological and Silicon Computers -- Chapter 10. Engineering of riboregulators for gene regulation as a tool for synthetic biology -- Chapter 11. Recent advances, challenges and opportunities in riboswitches -- Chapter 12. Recent Advances in Gene and Genome Assembly: Challenges and Implications -- Chapter 13. Recent

advances, challenges and opportunities in synthetic genomes -- Chapter 14. Expansion of the genetic code -- Chapter 15. Expanding the potential of CRISPR-Cas9 technology for crops improvement -- Chapter 16. Synthetic biology at the hand of cell-free systems -- Chapter 17. Synthetic Biology for the Rapid, Precise and Compliant Detection of Microbes -- Chapter 18. Application and challenges of synthetic biology -- Chapter 19. Development and Application of Microfluidics in Synthetic Biology -- Chapter 20. The Ethics of Synthetic Biology Research and Development: A Principlist Approach. .

Sommario/riassunto

This book addresses the design of emerging conceptual tools, technologies and systems including novel synthetic parts, devices, circuits, oscillators, biological gates, and small regulatory RNAs (riboregulators and riboswitches), which serve as versatile control elements for regulating gene expression. Synthetic biology, a rapidly growing field that involves the application of engineering principles in biology, is now being used to develop novel systems for a wide range of applications including diagnostics, cell reprogramming, therapeutics, enzymes, vaccines, biomaterials, biofuels, fine chemicals and many more. The book subsequently summarizes recent developments in technologies for assembling synthetic genomes, minimal genomes, synthetic biology toolboxes, CRISPR-Cas systems, cell-free protein synthesis systems and microfluidics. Accordingly, it offers a valuable resource not only for beginners in synthetic biology, but also for researchers, students, scientists,clinicians, stakeholders and policymakers interested in the potential held by synthetic biology.