

1. Record Nr.	UNINA9910484872903321
Titolo	DNA Computing and Molecular Programming : 23rd International Conference, DNA 23, Austin, TX, USA, September 24–28, 2017, Proceedings / / edited by Robert Brijder, Lulu Qian
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-66799-8
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XII, 267 p. 76 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10467
Disciplina	006.3842
Soggetti	Computer science Algorithms Bioinformatics Artificial intelligence Artificial intelligence - Data processing Computer science - Mathematics Discrete mathematics Theory of Computation Computational and Systems Biology Artificial Intelligence Data Science Discrete Mathematics in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Algorithms and models for computation with biomolecular systems -- Computational processes in vitro and in vivo -- Molecular motors and molecular robotics -- Studies of fault-tolerance and error correction -- Software tools for analysis, simulation, and design -- Synthetic biology and in vitro evolution -- Applications in engineering, physics, chemistry, biology, and medicine.
Sommario/riassunto	This book constitutes the refereed proceedings of the 23th International Conference on DNA Computing and Molecular

Programming, DNA 23, held Austin, TX, USA, in September 2017. The 16 full papers presented were carefully selected from 23 submissions. Research in DNA computing aims to draw together mathematics, computerscience, physics, chemistry, biology, and nanotechnology to address the analysis, design, and synthesis of information-based molecular systems. The papers address all areas related to biomolecular computing such as: algorithms and models for computation with biomolecular systems; computational processes in vitro and in vivo; molecular motors and molecular robotics; studies of fault-tolerance and error correction; software tools for analysis, simulation, and design; synthetic biology and in vitro evolution; applications in engineering, physics, chemistry, biology, and medicine. .

---