1.	Record Nr.	UNISA996465919803316
	Titolo	DNA Computing and Molecular Programming [[electronic resource]] : 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. .