1. Record Nr. UNINA9910257423803321

Titolo	Dynamical Systems and Chaos [[electronic resource]] : Proceedings of the Sitges Conference on Statistical Mechanics Sitges, Barcelona/Spain September 5 – 11, 1982 / / edited by L. Garrido
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1983
ISBN	3-540-39594-6
Edizione	[1st ed. 1983.]
Descrizione fisica	1 online resource (XIV, 298 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 179
Disciplina	530.1
Soggetti	Mathematical physics Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Prologue Some ideas about strange attractors -- Chaotic dynamics in Hamiltonian systems with divided phase space -- Periodic and quasi-periodic orbits for twist maps -- Macroscopic behavior in a simple chaotic Hamiltonian system -- Quantum dynamics -- A universal transition from quasi-periodicity to Chaos — Abstract -- Self-generated diffusion and universal critical properties in chaotic systems -- Subharmonics and the transition to chaos -- Low dimensional dynamics and the period doubling scenario -- Strange attractors in fluid dynamics -- Experimental aspects of the period doubling scenario -- Entropy and smooth dynamics -- Imbedding of a one-dimensional endomorphism into a two-dimensional diffeomorphism. Implications -- Strange attractors for differential delay equations -- Stochastic perturbations of some strange attractors -- Solutions of stochastic differential equations and fractal trajectories -- Continuous bifurcation and dissipative structures associated with a soft mode recombination instability in semiconductors -- On the characterization of chaotic motions -- Complex bifurcations in a periodically forced normal form -- Topological entropy and scaling behaviour -- On the analytic structure of chaos in dynamical systems -- Type-III-intermittency in a smooth perturbation of the logistic system -- Irreversible evolution of dynamical systems -- Homoclinic and heteroclinic points in the henon

	map -- The simple periodic orbits in the unimodal maps -- Modulation properties in decaying processes of the correlation function in a family of t-D maps -- Relaxation times and randomness for a nonlinear classical system -- Topological entropy on rotation sequences -- The taylor-green vortex : Fully developed turbulence and transition to spatial chaos -- Anharmonic systems in external periodic fields with chaotic behaviour -- Renormalization of non-analytical unimodal maps -- Critical fluctuations in a thermo-chemical instability -- The second order Melnikov integral applied to detect quasi-randomness -- The Fokker-Planck equation as a dynamical system -- On integrability of quadratic area preserving mappings in the plane -- Resonances: Key elements to the understanding of non linear oscillations -- On systems passing through resonances -- The Lyapunov characteristic numbers and the number of isolating integrals in galactic models -- On the periodic orbits of the Contopoulos Hamiltonian -- Feasibility of calculating dimension and topological entropy -- Diffusions generated from dynamical systems -- Report on the driven Josephson equation.

2. Record Nr. UNINA9910624321003321

Titolo	Systems Biology of MicroRNAs in Cancer / / edited by Ulf Schmitz, Olaf Wolkenhauer, Julio Vera-González
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-08356-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (321 pages)
Collana	Advances in Experimental Medicine and Biology, , 2214-8019 ; ; 1385
Disciplina	572.88 616.994042
Soggetti	Cancer Tumor markers Non-coding RNA Cancers Tumour Biomarkers Non-coding RNAs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. The Role of MicroRNAs in Cancer Biology and Therapy from a Systems Biology Perspective -- Chapter 2. Circulating MicroRNAs as Cancer Biomarkers in Liquid Biopsies -- Chapter 3. Regulation of Immune Cells by MicroRNAs and MicroRNA-Based Cancer Immunotherapy -- Chapter 4. Machine-Learning-Based Methods and Best Practices of MicroRNA-Target Prediction and Validation -- Chapter 5. Turning Data to Knowledge: Online Tools, Databases and Resources in MicroRNA Research -- Chapter 6. Bioinformatics Methods for Modeling MicroRNA Regulatory Networks in Cancer -- Chapter 7. Analysis of the p53/MicroRNA Network in Cancer -- Chapter 8. Machine Learning Using Gene-Sets to Infer miRNA Function -- Chapter 9. miRNA:miRNA Interactions: A Novel Mode of miRNA Regulation and Its Effect on Disease -- Chapter 10. ClustMMRA v2: A Scalable Computational Pipeline for the Identification of MicroRNA Clusters Acting Cooperatively on Tumor Molecular Subgroups -- Chapter 11. 3D Modeling of Non-coding RNA Interactions.
Sommario/riassunto	This book provides an update on the latest development in the field of microRNAs in cancer research with an emphasis on translational research. Since the early 2000s, microRNAs have been recognized as important and ubiquitous regulators of gene expression. Soon it became evident that their deregulation can cause human diseases including cancer. This book focuses on the emerging opportunities for the application of microRNA research in clinical practice. In this context, computer models are presented that can help to identify novel biomarkers, e.g. in circulating microRNAs, and tools that can help to design microRNA-based therapeutic interventions. Other chapters evaluate the role of microRNAs in immunotherapy, immune responses and drug resistance. Covering key topics on microRNAs in cancer research this book is a valuable resource for both emerging and established microRNA researchers who want to explore the potential of microRNAs as therapeutic targets or co-adjuvants in cancer therapies.