

1. Record Nr.	UNINA9910454507103321
Autore	Brandt Siegmund
Titolo	The harvest of a century [[electronic resource]] : discoveries in modern physics in 100 episodes / / Siegmund Brandt
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2009
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Descrizione fisica	1 online resource (515 p.)
Disciplina	530.0904
Soggetti	Physics - History - 20th century Physics - Research - History - 20th century Discoveries in science - History - 20th century Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Contents; Preface; Prologue - The Nineteenth-Century Heritage; 1 Rontgen's X Rays (1895); 2 Becquerel Discovers Radioactivity (1896); 3 Zeeman and Lorentz - A First Glimpse at the Electron (1896); 4 The Discovery of the Electron (1897); 5 Marie and Pierre Curie - Polonium and Radium (1898); 6 Alpha, Beta, and Gamma Rays (1899); 7 Max Planck and the Quantum of Action (1900); 8 Rutherford Finds the Law of Radioactive Decay (1900); 9 The Transmutation of Elements (1902); 10 Einstein's Light-Quantum Hypothesis (1905); 11 Einstein Creates the Special Theory of Relativity (1905) 12 Nernst and the Third Theorem of Thermodynamics (1905)13 Observing a Single Particle - The Rutherford-Geiger Counter and Later Electronic Detectors (1908); 14 Jean Perrin and Molecular Reality (1909); 15 Millikan's Oil-Drop Experiment (1910); 16 The Atomic Nucleus (1911); 17 Tracks of Single Particles in Wilson's Cloud Chamber (1911); 18 Kamerlingh Onnes - Liquid Helium and Superconductivity (1911); 19 Hess Finds Cosmic Radiation (1912); 20 Max von Laue - X Rays and Crystals (1912); 21 Bragg Scattering (1912); 22 J. J. Thomson Identifies Isotopes (1912); 23 Bohr's Model of the Atom (1913)

24 Moseley and the Periodic Table of Elements (1913) 25 The Franck-Hertz Experiment (1914); 26 Einstein Completes the General Theory of Relativity (1915); 27 Sommerfeld - Spatial Quantization and Fine Structure (1916); 28 Nitrogen is Turned into Oxygen (1919); 29 Astronomers Verify General Relativity (1919); 30 Stern and Gerlach Observe Spatial Quantization (1922); 31 The Compton Effect - The Light Quantum Gains Momentum (1923); 32 Matter Waves Proposed by de Broglie (1923); 33 Bose and Einstein - A New Way of Counting (1924); 34 Bothe and Geiger - Coincidence Experiments (1925) 35 Pauli's Exclusion Principle (1925) 36 Spin (1925); 37 Heisenberg and the Creation of Quantum Mechanics (1925); 38 Dirac's Mechanics of q Numbers (1925); 39 Schrodinger Creates Wave Mechanics (1926); 40 Born's Probability Interpretation of Quantum Mechanics (1926); 41 Fermi-Dirac Statistics - Yet Another Way of Counting (1926); 42 Heisenberg's Uncertainty Principle and Bohr's Complementarity (1927); 43 Quantum Mechanics and Relativity - The Dirac Equation (1928); 44 The Band Model of Conductors and Semiconductors (1928-31); 45 Hubble Finds that the Universe is Expanding (1929) 46 Pauli Presents His Neutrino Hypothesis (1930) 47 Lawrence and the Cyclotron (1931); 48 Chadwick Discovers the Neutron (1932); 49 Anderson Discovers the Positron (1932); 50 Nuclear Reaction Brought About by Machine (1932); 51 Heisenberg on Nuclear Forces: Isospin (1932); 52 The Proton Displays an 'Anomalous' Magnetic Moment (1933); 53 Fermi's Theory of Beta Rays (1933); 54 Irene and Frederic Joliot-Curie - Artificial Radioactivity (1934); 55 Fermi Produces Radioactivity with Neutrons (1934); 56 Cherenkov Radiation Discovered (1934) and Explained (1937) 57 Prediction of the Meson (1934) - Discovery of the Muon (1937)

Sommario/riassunto

Physics was the leading science of the twentieth century and the book retraces important discoveries, made between 1895 and 2001, in 100 self-contained Episodes. Each is a short story of the scientists involved, their time and their work. The book is richly illustrated by about 600 portraits, photographs and figures. - ;Physics was the leading science of the twentieth century and the book retraces important discoveries, made between 1895 and 2001, in 100 self-contained episodes. Each is a short story of the scientists involved, their time, and their work. Together they form a mosaic of modern

2. Record Nr.	UNINA9910253905803321
Titolo	Dental Stem Cells: Regenerative Potential / / edited by Barbara Zavan, Eriberto Bressan
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ISBN	3-319-33299-6
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (IX, 287 p. 39 illus., 34 illus. in color.)
Collana	Stem Cell Biology and Regenerative Medicine, , 2196-8985
Disciplina	612.31
Soggetti	Regenerative medicine Tissue engineering Stem cells Biomedical engineering Dentistry Biomaterials Regenerative Medicine/Tissue Engineering Stem Cells Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Dental stem cell (DSC): classification and properties -- 2. Protocols for DSC isolation, amplification and differentiation -- 3. Isolation and Cryopreservation of Stem Cells from Dental Tissues -- 4. Epigenetics of Dental Stem Cells -- 5. Dental Stem Cells and Growth Factors -- 6. Nano surface & Stem Cells for Implants -- 7. Dental Pulp Stem Cells and Hydrogel in Pulp Regeneration -- 8. Dental stem cells for pulp regeneration -- 9. Stem cells for periodontal regeneration -- 10. Dental stem cells for tooth regeneration -- 11. Dental stem cells for bone regeneration -- 12. Neuronal properties of Dental Stem Cells -- 13. MSCs and Biomaterials -- 14. DSC As A New Cellular Resource For Corneal Stromal Regeneration -- 15. DSC-differentiated hepatocytes for treatment of liver diseases.
Sommario/riassunto	This book focuses on the basic aspects of dental stem cells (DSCs) as

well as their clinical applications in tissue engineering and regenerative medicine. It opens with a discussion of classification, protocols, and properties of DSCs and proceeds to explore DSCs within the contexts of cryopreservation; epigenetics; pulp, periodontal, tooth, bone, and corneal stroma regeneration; neuronal properties, mesenchymal stem cells and biomaterials; and as sources of hepatocytes for liver disease treatment. The fifteen expertly authored chapters comprehensively examine possible applications of DSCs and provide invaluable insights into mechanisms of growth and differentiation. Dental Stem Cells: Regenerative Potential draws from a wealth of international perspectives and is an essential addition to the developing literature on dental stem cells. This installment of Springer's Stem Cell Biology and Regenerative Medicine series is indispensable for biomedical researchers interested in bioengineering, dentistry, tissue engineering, regenerative medicine, cell biology and oncology.
