

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
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Humana, , 2016
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.
