Stem Cells In Aesthetic Procedures Art Science And Clinical Techniques

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Aesthetic Surgery of the Facial Mosaic - Dimitrije E. Panfilov 2007-08-16

This authoritative reference book assembles the experience of an international faculty of authors, each of whom has performed several thousand facelifts, i.e. procedures to rejuvenate and harmonize the human face. The authors share their experience, including tips and tricks, as well as ways to avoid complications and pitfalls. All procedures in this regard are covered and the text is accompanied by extensive artwork and photographs. A kaleidoscope of 363 important aspects, tips and tricks in facial plastic surgery rounds up the presentation.

Gene Therapy in Reconstructive and Regenerative Surgery - Giorgio Giatsidis 2018-08-02

This book offers an updated overview of the most recent research advances in the field, a comparison of established techniques and methods, a discussion on current experimental and translational challenges, and a commentary on potential opportunities and future directions. Dedicated chapters address and review the preclinical and clinical state-of-the-art of gene therapies for the reconstructive and regenerative surgery of skin and wounds, pathological scars, cartilage, tendons, skeletal muscles, and bio-engineered flaps. A brief guide to developing gene therapy clinical trials in the context of reconstructive and regenerative surgery is also provided. Biomedical and technological innovations are transforming our capacity to use gene therapies to safely and effectively repair, reconstruct, and regenerate tissues that are deficient or have been damaged by trauma and diseases. The targeted and controlled modulation of gene expression in tissues represents a game-changing, next-generation therapeutic tool for the modern reconstructive surgeon, expanding the horizon of regenerative surgery and tissue engineering. Through gene therapies, surgeons can direct (stem) cell differentiation and cell function, modulate the release of growth/transcriptional factors, affect the biological properties of regenerative scaffolds, control tissue inflammation, or induce immune-suppression in composite tissue allotransplants and xenotransplants. Written by renowned reconstructive surgeons and leading experts in each of these fields - from top academic institutions around the globe, the book provides an initial practical guide for veteran and newcomer surgeons alike, as well as for researchers interested in exploring the latest gene-based therapeutic strategies for reconstructive and regenerative surgery.

Regenerative Medicine and Plastic Surgery - Dominik Duscher 2019-11-27

This book presents the latest advances in the field of regenerative medicine in plastic surgery.

It is the first authoritative reference documenting all the ways that plastic surgical practice and regenerative medicine science overlap or provide a road map for the future of both specialties. The Editors have provided a valuable service by gathering in one place the leading voices in these two fields in clear and concise manner.The first part introduces readers to essential principles of skin and soft tissue regeneration, e.g. the possibility of using mesenchymal stem cells for wound healing. Since bone serves as a supportive tissue in most of the body, bone regeneration is an important aspect of regenerative medicine; accordingly, the second part discusses the novel bone implants, activated bone grafts and bone tissue engineering. The book's third part, focusing on cartilage regeneration, includes chapters on e.g. stem cells and ear regeneration. In turn, part four addresses muscle and tendon regeneration: from tendon to bone and tendon to muscle, as well as aging in the realm of muscle regeneration. Lastly, part five highlights nerve regeneration, deepening surgeons' knowledge to help them successfully treat injuries to the peripheral neural system. Written by leading experts this book is an invaluable resource for researchers, students, beginners and experienced clinicians in a range of specialties. "With beautiful clinical images and artwork, this book will be a central companion to both practicing plastic surgeons who wish to remain abreast of oncoming technologic advances and regenerative medicine researchers who wish to understand the current state of the art of surgical reconstruction." - Geoffrey C. Gurtner, MD, FACS Johnson and Johnson Distinguished Professor of Surgery Professor (by courtesy) of Bioengineering and Materials Science Inaugural Vice Chairman of Surgery for Innovation Stanford University School of Medicine

*Plastic and Aesthetic Regenerative Surgery and Fat Grafting*Amin Kalaaji 2022-05-23

Readers will discover the relatively new and rapidly growing field of regenerative surgery and fat grafting, valuable for numerous plastic surgery, reconstructive, and aesthetic/cosmetic essentials. Though many books have covered specific areas or topics in regenerative surgery, the market lacks a work that tackles the full spectrum of regenerative surgery and its clinical application. This book responds to that need and presents chapters written by the best: world-renowned surgeons in their field. After an introduction that reflects basic research, most of the book focuses on clinical experience as it relates to applied techniques of processing fat and on the different uses from head to toe. Readers will learn about the history of regenerative surgery, important definitions and background information, and the evidence supporting the use of regenerative surgery. Practitioners will also find valuable guidance regarding the application of stem cells, evaluation of patient needs, and operative techniques for fat transfer. Subsequent chapters address topics such as graft types, the skin, wound healing, scar treatment, osteoarthritis, burns, scleroderma, hair rejuvenation, facial enhancement combined with facelift, chin augmentation with fat, and breast argumentation or reconstruction with fat. Particular attention is paid to gluteal augmentation with fat, body contouring, genital male and female rejuvenation, and upper and lower extremity regenerative surgery. Surgical anatomy and complications treatment and prevention were emphasized when applied. This resulted is two volumes that encompass 114 chapters, with multiple figures, and video clips, written by 242 authors (including 72 female colleagues) from five continents. Highly informative and carefully structured, this book provides invaluable insight for beginners and experienced plastic surgeons alike, while benefitting advanced surgeons, specialists, and undergraduate and graduate students.

Methods in Stem Cell Biology - Part B - 2022-08-09

Methods in Cancer Stem Cell Biology: Part B, Volume 171 in the Methods in Cell Biology series highlights advances in the field, with this new volume presenting interesting chapters on timely topics, including Orthotopic brain tumor models derived from glioblastoma stem-like cells, RNA sequencing in hematopoietic stem cells, Generation of inducible pluripotent stem cells from human dermal fibroblasts, In vitro preparation of dental pulp stem cell grafts combined with biocompatible scaffolds for tissue engineering, Gene expression knockdown in chronic myeloid leukemia stem cells,

Identification and isolation of slow-cycling GSCs, Assessment of CD133, EpCAM, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Includes the latest information on the topic of Methods in Cancer Stem Cell Biology

Art, Aesthetics, and the Brain - Joseph P. Huston 2015

What neural processes underlie the appreciation of painting, music, and dance? How did such processes evolve? This book brings together experts in genetics, psychology, neuroimaging, neuropsychology, art history, and philosophy to explore these questions. It sets the stage for a cognitive neuroscience of art and aesthetics.

The Projected and Prophetic: Humanity in Cyberculture, Cyberspace, and Science Fiction - Jordan J. Copeland 2020-03-31

The papers collected in this volume document the exchange and development of ideas that comprised the 5th Global Conference on Visions of Humanity in Cyberculture, Cyberspace, and Science Fiction, hosted at Mansfield College, Oxford, United Kingdom, in July 2010.

Aesthetic Medicine - Peter M. Prendergast 2011-09-23

The Aesthetic Medicine: Art and Techniques provides step-by-step instructions in the procedures and techniques commonly employed in aesthetic medicine. The book is divided into four parts, the first two of which offer an introduction to aesthetic medicine and discuss preoperative assessment and treatment. Detailed guidance is then given on a wide range of cutaneous procedures, including the use of botulinum toxins, dermabrasion and microdermabrasion, cryotherapy, chemical peel skin resurfacing, laser treatments, mesotherapy, sclerotherapy, capacitive radiofrequency treatment, and the use of dermarollers. The final part of the book is devoted to techniques employed in shaping the face and body, such as breast and facial augmentation, penile enhancement, liposuction, and management of hair loss or excess hair. All procedures are depicted with the aid of numerous high-quality illustrations and color photographs. This book will serve as an excellent guide for both beginners and experienced practitioners.

Aesthetic Science - Arthur P. Shimamura 2012-01-02

What do we do when we view a work of art? What does it mean to have an 'aesthetic' experience? Are such experiences purely in the eye of the beholder? This book addresses the nature of aesthetic experience from the perspectives of philosophy psychology and neuroscience.

Adipose-Derived Stem Cells - Jeffrey M. Gimble 2011-08-24

During the past decade, a wide range of scientific disciplines have adopted the use of adipose-derived stem/stromal cells (ASCs) as an important tool for research and discovery. In Adipose-Derived Stem Cells: Methods and Protocols, experts from the field, including members of the esteemed International Federation of Adipose Therapeutics and Science (IFATS), provide defined and established protocols in order to further codify the utilization of these powerful and accessible cells. With chapters organized around approaches spanning the discovery, pre-clinical, and clinical processes, much of the emphasis is placed on human ASC, while additional techniques involving small and large animal species are included. As a volume in the highly successful Methods in Molecular BiologyTM series, the detailed contributions include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, Adipose-Derived Stem Cells: Methods and Protocols serves as a vital reference text for experienced researchers as well as new students on the path to further exploring the incredible potential of ASCs.

A Textbook of Advanced Oral and Maxillofacial Surgery - Mohammad Hosein Motamedi 2016-08-31

Advanced oral and maxillofacial surgery encompasses a vast array of diseases, disorders, defects, and deformities as well as injuries of the mouth, head, face, and jaws. It relates not only to treatment of impacted teeth, facial pain, misaligned jaws, facial trauma, oral cancers, jaw cysts, and tumors but also to facial cosmetic surgery and placement of dental and facial

implants. This specialty is evolving alongside advancements in technology and instrumentation. Volume 1 has topped 132,000 chapter downloads so far, and Volume 2 is being downloaded at the same pace! Volume 3 is basically the sequel to Volumes 1 and 2; 93 specialists from nine countries contributed to 32 chapters providing comprehensive coverage of advanced topics in OMF surgery.

Advanced Aesthetic Rhinoplasty - Melvin A. Shiffman 2013-04-19

Aesthetic rhinoplasty is among the most common aesthetic operations in the field of facial aesthetic plastic surgery, but it is also viewed as one of the most complex. This comprehensive book provides a wealth of up-to-date information on advanced aesthetic rhinoplasty techniques. After discussion of anatomy, psychological issues, and preoperative planning, a wide range of primary and secondary rhinoplasty techniques are described clearly and in detail with the aid of numerous high-quality color illustrations. The use of fillers in rhinoplasty, ethnic variations in anatomy and techniques, and possible risks and complications are all clearly explained. This book is intended primarily for experienced surgeons in the fields of plastic surgery, cosmetic surgery, general surgery, otolaryngology, ophthalmology, oral maxillofacial surgery, and cosmetic surgical subspecialties. It will also be an invaluable resource for residents and fellows.

Mesenchymal Stem Cell Therapy - Lucas G. Chase 2012-12-12

Over the past decade, significant efforts have been made to develop stem cell-based therapies for difficult to treat diseases. Multipotent mesenchymal stromal cells, also referred to as mesenchymal stem cells (MSCs), appear to hold great promise in regards to a regenerative cell-based therapy for the treatment of these diseases. Currently, more than 200 clinical trials are underway worldwide exploring the use of MSCs for the treatment of a wide range of disorders including bone, cartilage and tendon damage, myocardial infarction, graft-versus-host disease, Crohn's disease, diabetes, multiple sclerosis, critical limb ischemia and many others. MSCs were first identified by Friendenstein and colleagues as an adherent stromal cell population within the bone marrow with the ability to form clonogenic colonies in vitro. In regards to the basic biology associated with MSCs, there has been tremendous progress towards understanding this cell population's phenotype and function from a range of tissue sources. Despite enormous progress and an overall increased understanding of MSCs at the molecular and cellular level, several critical questions remain to be answered in regards to the use of these cells in therapeutic applications. Clinically, both autologous and allogenic approaches for the transplantation of MSCs are being explored. Several of the processing steps needed for the clinical application of MSCs, including isolation from various tissues, scalable in vitro expansion, cell banking, dose preparation, quality control parameters, delivery methods and numerous others are being extensively studied. Despite a significant number of ongoing clinical trials, none of the current therapeutic approaches have, at this point, become a standard of care treatment. Although exceptionally promising, the clinical translation of MSC-based therapies is still a work in progress. The extensive number of ongoing clinical trials is expected to provide a clearer path forward for the realization and implementation of MSCs in regenerative medicine. Towards this end, reviews of current clinical trial results and discussions of relevant topics association with the clinical application of MSCs are compiled in this book from some of the leading researchers in this exciting and rapidly advancing field. Although not absolutely all-inclusive, we hope the chapters within this book can promote and enable a better understanding of the translation of MSCs from bench-to-bedside and inspire researchers to further explore this promising and quickly evolving field.

Autologous Fat Transfer - Melvin A. Shiffman 2009-12-16

This book covers all aspects of autologous fat transfer including the history of fat transfer, the history of autologous fat survival, a variety of aesthetic and plastic procedures of the face and body, noncosmetic applications of fat transfer, preoperative care, complications, and medical-legal aspects. The contributors are international experts in the field of autologous fat transfer.

Tissue Regeneration - Hussein Abdelhay

Essayed Kaoud 2018-06-06
Tissue regeneration is a vast subject, with many different important aspects to consider. Regenerative medicine is a new branch of medicine that tries to change the course of chronic diseases and, in many cases, regenerates the organ systems that fail due to age, disease, damage, or genetic defects. The main purpose of this book is to point out the interest of some important topics of tissue regeneration and the progress in this field as well as the variety of different surgical fields and operations. This book includes 7 sections and 11 chapters that provide an overview of the essentials in tissue regeneration science and their potential applications in surgery. The authors of each chapter have given consolidated information on ground realities and attempted to provide a comprehensive knowledge of tissue engineering and regeneration. This book will be useful to researchers and students of biological and biomedical sciences (medical and veterinarian researchers).

Liposuction Jin Yong Park 2018-03-06
This book provides easy-to-understand descriptions of high-quality liposuction techniques applicable to different parts of the body, including the face, abdomen, breasts, arms, buttocks, thighs, and calves. The coverage also encompasses the liposuction treatment of osmidrosis and fat injection techniques (facial, breast, and stem cell). Drawing on his extensive experience of more than ten thousand cases of liposuction and fat and stem cell transplantation, the author presents important new theoretical perspectives and novel surgical approaches that he has personally developed. These include the MDMP technique (multi-direction, multi-position), which is straightforward to perform and offers significant benefits. All procedures are described step by step, from preparation through to completion. The book is superbly illustrated throughout, with a wealth of informative photographs that will aid the practitioner. It will be of high value for experienced plastic and cosmetic surgeons and also for residents and fellows.

Cosmetic Breast Cases - Michael J. Higgs 2017-08-25
This well-illustrated book presents one hundred and eighty cases that have been consulted on by an international breast group (organized and run by Dr. Michael Higgs) that comprises experts in breast surgery and is dedicated to the solution of problems associated with aesthetic breast surgery. The focus of the book is accordingly on actual pre- and postsurgical problems in breast surgery. Each case study includes the history of the breast problem, photos, questions, recommendations for treatment, and discussions of relevant subjects from a variety of specialists. Outcomes of the selected treatments are also presented. The book is unique in covering the multitude of complications that can arise with breast surgery from the perspective of international experts. It will enable readers to identify appropriate methods of handling specific problems and to implement the recommendations in their practice.

The SAGE Encyclopedia of Stem Cell Research - Eric E. Bouhassira 2015-06-15
The SAGE Encyclopedia of Stem Cell Research, Second Edition is filled with new procedures and exciting medical breakthroughs, including executive orders from the Obama administration reversing barriers to research imposed under the Bush administration, court rulings impacting NIH funding of research based on human embryonic stem cells, edicts by the Papacy and other religious leaders, and the first success in cloning human stem cells. Stem cell biology is clearly fueling excitement and potential in traditional areas of developmental biology and in the field of regenerative medicine, where they are believed to hold much promise in addressing any number of intractable medical conditions. This updated second edition encyclopedia will expand on information that was given in the first edition and present more than 270 new and updated articles that explore major topics in ways accessible to nonscientists, thus bringing readers up-to-date with where stem cell biology stands today, including new and evolving ethical, religious, legal, social, and political perspectives. This second edition reference work will serve as a universal resource for all public and academic libraries. It is an excellent foundation for anyone who is interested in the subject area of stem cell biology. Key Features: Reader's Guide, Further Readings, Cross References, Chronology, Resource Guide, Index A Glossary will elucidate stem cell terminology for the nonscientist

Statistics and selected reprints of major journal articles that pertain to milestones achieved in stem cell research Documents from Congressional Hearings on stem cells and cloning Reports to the President's Council on Bioethics, and more

Guidelines for Human Embryonic Stem Cell Research - National Research Council 2005-09-15

Since 1998, the volume of research being conducted using human embryonic stem (hES) cells has expanded primarily using private funds because of restrictions on the use of federal funds for such research. Given limited federal involvement, privately funded hES cell research has thus far been carried out under a patchwork of existing regulations, many of which were not designed with this research specifically in mind. In addition, hES cell research touches on many ethical, legal, scientific, and policy issues that are of concern to the public. This report provides guidelines for the conduct of hES cell research to address both ethical and scientific concerns. The guidelines are intended to enhance the integrity of privately funded hES cell research by encouraging responsible practices in the conduct of that research.

Encyclopedia of Aesthetic Rejuvenation Through Volume Enhancement - Charles K. Herman 2014-05-30

Covering popular body rejuvenating techniques in plastic surgery, including injectables, implants, and fat grafts, Encyclopedia of Aesthetic Rejuvenation Through Volume Enhancement is a comprehensive reference that features procedures for all areas of the body. This accessible text provides plastic surgeons with one core reference they can easily consult before performing a procedure. Key Features: Provides online access to videos of the latest volume enhancement techniques Covers current hot topics of stem cell therapies and regenerative medicine Enhanced by hundreds of full -color, high-quality illustrations and photographs Written and edited by renowned experts on body rejuvenation in plastic surgery Several techniques are presented for each procedure, allowing surgeons to choose the one that best suits the patient. Plastic surgeons, dermatologic surgeons, facial plastic surgeons, and their residents will find this encyclopedia to be an invaluable guide to performing the latest volume enhancing techniques.

Skin Tissue Engineering and Regenerative Medicine - Mohammad Albanna 2016-01-14

The skin is the largest human organ system. Loss of skin integrity due to injury or illness results in a substantial physiologic imbalance and ultimately in severe disability or death. From burn victims to surgical scars and plastic surgery, the therapies resulting from skin tissue engineering and regenerative medicine are important to a broad spectrum of patients. Skin Tissue Engineering and Regenerative Medicine provides a translational link for biomedical researchers across fields to understand the inter-disciplinary approaches which expanded available therapies for patients and additional research collaboration. This work expands on the primary literature on the state of the art of cell therapies and biomaterials to review the most widely used surgical therapies for the specific clinical scenarios. Explores cellular and molecular processes of wound healing, scar formation, and dermal repair Includes examples of animal models for wound healing and translation to the clinical world Presents the current state of, and clinical opportunities for, extracellular matrices, natural biomaterials, synthetic biomaterials, biologic skin substitutes, and adult and fetal stem and skin cells for skin regenerative therapies and wound management Discusses new innovative approaches for wound healing including skin bioprinting and directed cellular therapies

Cosmetic Surgery - Melvin A. Shiffman 2012-09-05

Cosmetic Surgery: Art and Techniques is an atlas of general cosmetic surgery that provides precise step-by-step descriptions of the full range of techniques, supported by photographs and illustrations of the highest standard. The book is comprehensive in its scope, covering the diverse procedures performed on the head and neck, breast, abdomen, buttocks, and extremities as well as other techniques such as labioplasty, penile enhancement, and total body lift. Risks and complications are fully explained, with clear advice on how to avoid and to treat them. All of the contributors are internationally recognized experts with extensive knowledge of their subject. This book will be of value to

beginners, and experienced practitioners in not only cosmetic surgery but also plastic surgery, general surgery, oral maxillofacial surgery, neurosurgery, dermatology, otolaryngology, and ophthalmology.

Textbook of Orthopedic Rheumatology - Manish Khanna 2021-07-09

Stem Cells in Aesthetic Procedures - Melvin A. Shiffman 2014-07-21

Interest in the use of stem cells in aesthetic procedures has been increasing rapidly, reflecting the widespread acknowledgment of the tremendous potential of stem cell fat transfer. This is, however, the first book to be devoted entirely to the subject. The book opens by reviewing the history of the development of pluripotent stem cells and the results of research into the biochemistry and physiology of stem cells. Adipose tissue anatomy and survival are discussed and the wide range of aesthetic procedures involving stem cell fat transfer are then described in detail. These procedures relate to the face, breast, buttocks, legs, hands, penis and Poland syndrome. In addition, potential risks and complications are identified. The book has been written by leading experts and will be an invaluable source of information for students, beginners and experienced surgeons in a range of specialties.

Breast Reconstruction - Melvin A. Shiffman 2015-10-30

This book, written by leading international experts in the field, offers a comprehensive overview of the latest developments in breast reconstruction. A particular feature is the presentation of a multitude of new clinical techniques, with high-quality supporting illustrations. The opening sections document the history of breast reconstruction, describe the anatomy of the pectoral muscles, pectoral nerves and perforator flaps and provide guidance on preoperative imaging and planning. After full documentation of techniques (including use of autogenous tissues and prosthetic implants), further sections are devoted to the effects of chemotherapy and radiation, the role of angiography and thermography, monitoring, quality of life outcomes and complications and their management. The book will be invaluable both for residents and fellows and for practicing and highly experienced cosmetic surgeons, plastic surgeons, general surgeons, and those in cosmetic surgical subspecialties.

Cosmeceuticals E-Book - Zoe Diana Draelos 2014-09-26

Improve your knowledge and treat patients with confidence using today's most advanced cosmeceutical treatments and expert guidance from author Zoe Diana Draelos, MD. Cosmeceuticals, 3rd Edition, a volume in the Procedures in Cosmetic Dermatology Series, covers cutting-edge content, keeping you up to date with developments in this rapidly-moving field so you can offer your patients the latest cosmeceutical therapies with optimal results. Consult this title on your favorite e-reader. Stay on top of more than "just the basics" concerning cosmetics and skin care and deliver the state-of-the-art expertise your patients are looking for. Expand your repertoire and refine your skills with a wealth of color illustrations and photographs depicting cases as they appear in practice. Learn new uses for botanicals, including soy and green tea, as well as vitamin antioxidants, peptides, growth factors, and stem cells. Find what you need quickly with new summaries and keypoints at the start of each chapter.

Mesenchymal Stem Cell Derived Exosomes - Yaoliang Tang 2015-09-02

Mesenchymal stem cell-derived exosomes are at the forefront of research in two of the most high profile and funded scientific areas – cardiovascular research and stem cells. Mesenchymal Stem Cell Derived Exosomes provides insight into the biofunction and molecular mechanisms, practical tools for research, and a look toward the clinical applications of this exciting phenomenon which is emerging as an effective diagnostic. Primarily focused on the cardiovascular applications where there have been the greatest advancements toward the clinic, this is the first compendium for clinical and biomedical researchers who are interested in integrating MSC-derived exosomes as a diagnostic and therapeutic tool. Introduces the MSC-exosome mediated cell-cell communication Covers the major functional benefits in current MSC-derived exosome studies Discusses strategies for the use of MSC-derived exosomes in

cardiovascular therapies

Aesthetic and Regenerative Gynecology - Preeti Jindal 2022

Aesthetic or cosmetic gynecology is a rapidly expanding and much in demand field worldwide. This book covers all aspects of cosmetic gynecology in great details and interdisciplinary fields. It provides information and practical tips on the new evolving and fast growing branch of aesthetic and regenerative gynecology. The book covers basics along with illustrations, practical tips and troubleshooting points. Chapters include anatomy, physiology, pathology and comprehensive management of diseases in relation to cosmetic gynecology. The book explains the basics of techniques and devices used in this field such as several energy based and high tech devices like lasers, Hifu, HIFEM, their safety profile, scope and uses in an easy to understand language supported by illustrations. It also covers complications, controversies and medicolegal issues surrounding this field. The book includes chapters from national and international experts of each technique and helps in systematic evidence based learning. The book serves as a comprehensive book for postgraduates and consultants in gynecology, plastic surgery, dermatology, urogynecology, vascular surgery, general surgery, for cosmetologists and those interested in regenerative sciences.

Stem Cells in Aesthetic Procedures - Melvin A. Shiffman 2016-08-23

Interest in the use of stem cells in aesthetic procedures has been increasing rapidly, reflecting the widespread acknowledgment of the tremendous potential of stem cell fat transfer. This is, however, the first book to be devoted entirely to the subject. The book opens by reviewing the history of the development of pluripotent stem cells and the results of research into the biochemistry and physiology of stem cells. Adipose tissue anatomy and survival are discussed and the wide range of aesthetic procedures involving stem cell fat transfer are then described in detail. These procedures relate to the face, breast, buttocks, legs, hands, penis and Poland syndrome. In addition, potential risks and complications are identified. The book has been written by leading experts and will be an invaluable source of information for students, beginners and experienced surgeons in a range of specialties.

New Frontiers in Plastic and Cosmetic Surgery - Melvin A Shiffman 2015-06-10

Edited by a recognised team of experts from the USA and Italy, New Frontiers in Plastic and Cosmetic Surgery is an innovative, authoritative, and richly illustrated guide to the most recent procedures in plastic and cosmetic surgery, and their potential for future use. The book is divided into six clear sections, covering stem cells, liposuction, head and neck, breast, body and extremities. The first section on stem cells covers current and future applications of tissue engineering in plastic and reconstructive surgery, including the growth of tissues and organs. The extensive section on liposuction outlines the effectiveness of current techniques in reducing limb volume, with good cosmetic and functional outcomes and a low rate of complications. Several cosmetic breast surgery techniques are covered, including a new approach to male breast contouring after massive weight loss. A new technique using radiofrequency energy for tissue tightening is also covered. The final section on extremities includes anatomy, symptoms, examination, types of treatment, and prognosis of carpal tunnel syndrome. Enhanced by nearly 580 full colour illustrations and images, New Frontiers in Plastic and Cosmetic Surgery is at the leading edge of this rapidly developing field, making it invaluable for plastic reconstructive, maxillofacial and cosmetic surgeons. Key Points Innovative guide to latest advances in plastic and cosmetic surgery International editorial team from US and Italy 579 full colour illustrations and images

Regenerative Medicine Procedures for Aesthetic Physicians - Hernán Pinto 2019-08-02

This book presents the state-of-art in regenerative procedures currently applied by aesthetic physicians, plastic surgeons and dermatologists. It is divided into two parts, the first of which provides a detailed introduction to aesthetic medicine and the aging process. The second part, in turn, addresses the current status of techniques and technologies with regard to autologous grafts, covering fat transfer, blood grafts, skin grafts and stem cells.

The book examines the surgical applications of these grafts, as well as potential side effects and limitations. Therapy combinations and outcomes round out the coverage. Aesthetic physicians, plastic surgeons and dermatologists interested in performing regenerative procedures for aesthetic purposes will find this book to be a valuable guide.

Female Genital Plastic and Cosmetic Surgery Michael P. Goodman 2016-02-03

Female genital plastic surgery has become an increasingly sought-after option for women seeking improvement in genital appearance, relief from discomfort, and increased sexual pleasure. These surgeries are a combination of gynecologic, plastic, and cosmetic procedures. Every year sees a higher demand for physicians properly trained and able to perform them. This unique text from the acknowledged experts in the field covers; the anatomy of the area the specific surgical procedures and all their variations patients' rationales for surgery training guidelines and ethical issues outcome statistics sexual issues patient selection potential risks and complications. Examining the issues from individual patient's perspectives, it is written in an academic but easy-to-read style with understandable and unambiguous drawings and photographs. It contains a step-by-step surgical approach, how to best select the right surgical candidates, how to treat this select group of patients, the sexual issues involved, how to individualize techniques for each specific patient, how to deal with criticism from colleagues or journalists, psychosexual issues, and patient protection.

Adipose Stem Cells and Regenerative Medicine - Yves-Gerard Illouz 2011-09-07

The therapeutic potential of the use of adipose stem cells in regenerative medicine has been increasingly recognized, and in recent years concrete clinical benefits have accrued as these cells have been explored for a variety of applications. This readable and informative textbook tracks the progress that has been made in this fascinating new area of biomedicine. All aspects of the subject are considered, with particular attention to adipose cell biology, adipose tissue engineering strategies, and the diverse clinical applications of adipose stem cells. Funding issues, industrial approaches, regulatory challenges, and future directions are also examined. The two editors have vast experience in the field and have chosen leading experts from different countries to write on each topic. This book will excite the interest of all researchers, clinicians, and students wishing to gain an in-depth understanding of adipose stem cells and their flourishing role in regenerative medicine.

Textbook on Scar Management - Luc Téot 2020-12-07

This text book is open access under a CC BY 4.0 license. Written by a group of international experts in the field and the result of over ten years of collaboration, it allows students and readers to gain to gain a detailed understanding of scar and wound treatment – a topic still dispersed among various disciplines. The content is divided into three parts for easy reference. The first part focuses on the fundamentals of scar management, including assessment and evaluation procedures, classification, tools for accurate measurement of all scar-related elements (volume density, color, vascularization), descriptions of the different evaluation scales. It also features chapters on the best practices in electronic-file storage for clinical reevaluation and telemedicine procedures for safe remote evaluation. The second section offers a comprehensive review of treatment and evidence-based technologies, presenting a consensus of the various available guidelines (silicone, surgery, chemical injections, mechanical tools for scar stabilization, lasers). The third part evaluates the full range of emerging technologies offered to physicians as alternative or complementary solutions for wound healing (mechanical, chemical, anti-proliferation). Textbook on Scar Management will appeal to trainees, fellows, residents and physicians dealing with scar management in plastic surgery, dermatology, surgery and oncology, as well as to nurses and general practitioners

Practical Manual for Laparoscopic & Hysteroscopic Gynecological Surgery - Ibrahim Alkatout 2019-08-31

Stem Cells in Aesthetic Procedures - Melvin A. Shiffman 2014-08-08

Interest in the use of stem cells in aesthetic

procedures has been increasing rapidly, reflecting the widespread acknowledgment of the tremendous potential of stem cell fat transfer. This is, however, the first book to be devoted entirely to the subject. The book opens by reviewing the history of the development of pluripotent stem cells and the results of research into the biochemistry and physiology of stem cells. Adipose tissue anatomy and survival are discussed and the wide range of aesthetic procedures involving stem cell fat transfer are then described in detail. These procedures relate to the face, breast, buttocks, legs, hands, penis and Poland syndrome. In addition, potential risks and complications are identified. The book has been written by leading experts and will be an invaluable source of information for students, beginners and experienced surgeons in a range of specialties.

The Aesthetic Animal - Henrik Hogh-Olesen 2018-08-17

The Aesthetic Animal answers the ultimate questions of why we adorn ourselves, embellish our things and surroundings, and produce art, music, song dance, and fiction. Humans are aesthetic animals that spend vast amounts of time and resources on seemingly useless aesthetic activities. However, nature would not allow a species to waste precious time and effort on activities completely unrelated to survival, reproduction, and the well-being of that species. Consequently, the aesthetic impulse must have some important biological functions. A number of observations indicate that the aesthetic impulse is an inherent part of human nature, and therefore a primary impulse in its own right with several important functions: The aesthetic impulse may guide us toward what is biologically good for us, and help us choose the right fitness enhancing items in our surroundings. It is a valid individual fitness indicator as well as a unifying social group marker, and aesthetically skilled individuals get more mating possibilities, higher status and more collaborative offers. The book is written in a lively and entertaining tone, with beautiful color illustrations. It covers a wide field of aesthetic behaviors from cave art, graffiti, tattoos, and piercings over fashion, design, music, song, and dance. It presents an original and comprehensive synthesis of the empirical field, synthesizing data from archeology, cave art, anthropology, biology, ethology, behavioral- and evolutionary psychology and neuro-aesthetics. It is a must-read for people interested in biology, psychology, anthropology, architecture, design, fashion, body culture, art, and the evolution of aesthetics.

Musculoskeletal Ultrasound-Guided Regenerative Medicine - Yasser El Miedany 2022-09-18

The book examines recent developments in regenerative medicine and the use of musculoskeletal ultrasound. Musculoskeletal regeneration has become a prominent research topic, no doubt due to the sociological and economic pressures imposed by the current ageing population. The ever expanding role of regenerative medicine and the identification as well as characterization of stem cells have introduced a major paradigm shift in the field of musculoskeletal and sports medicine as well as orthopaedic surgery. Whereas in the past, diseased tissue was replaced with allograft material, current trends in research revolve around regenerating damaged tissue. Specifically, regenerative medicine stands in contrast to the standard treatment modalities which impair the body’s natural abilities to facilitate endogenous repair mechanisms such as anti-inflammatory drugs; or destructive modalities (e.g., radiotherapy, nerve ablation, injections of botulinum toxin) and surgical interventions that permanently alter the functioning of a joint, bone or spine. When compared to other allopathic options (including knee and hip arthroplasty with a 90-day mortality rate of 0.7%), regenerative medicine treatment modalities have a lower incidence of adverse events with a growing body of statistically significant medical literature illustrating both their safety and efficacy. Focusing on the major values of regenerative medicine, this book with its 21 chapters is expected to fill an important void in the current literature. It will take that extra step to guide you in your day to day clinical practice. Featuring contributions from a large international group of leaders in regenerative medicine and musculoskeletal ultrasonography, this book is an authoritative reference for rheumatologists, physiatrists, sonographers, radiologists, physiotherapists and orthopaedic

specialists.

The Art and Science of Filler Injection - Giwoong Hong 2020-02-27

This highly illustrated book describes how to perform dermal filler procedures in a way that simultaneously takes into account esthetic and safety aspects in order to achieve optimal outcomes in individual patients. After discussion of filler materials and design considerations, the relevant basic and clinical anatomy is described, drawing on cadaveric examinations and imaging in living subjects. Step-by-step instruction is then provided on how to identify a safe injection plane and on injection using the pinch technique. The coverage includes guidance on injection procedures specific to different sites. A thorough and systemic description of potential side effects of filler injection, and the management of complications is also presented. The Art and Science of Filler Injection equips the reader with a sound knowledge of all aspects relevant to the achievement of pleasing esthetic results without side effects and will be of value for practitioners at all levels of experience.

Aesthetic Plastic Surgery of the Abdomen - Alberto Di Giuseppe 2015-10-21

This comprehensive book covers anatomy, recent techniques, postoperative care, possible complications and outcomes in aesthetic surgery of the abdomen. The extensive section on aesthetic procedures includes many important innovations in abdominoplasty. Detailed consideration is also given to the various potential complications, with guidance on their prevention, diagnosis, and management. The book is written by acknowledged experts in the topics on which they write. It will be of value for residents and fellows and more experienced surgeons in the fields of plastic surgery, general surgery, cosmetic surgery and general surgery.