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KEY=DISEASE - MICAH MALDONADO

CORNEA AND EXTERNAL EYE DISEASE

CORNEAL ALLOTRANSPLANTATION, ALLERGIC DISEASE AND TRACHOMA

Springer Science & Business Media **The 8 recurring volumes of the "Essentials in Ophthalmology" series cover the most recent developments in one of eight subspecialties in Ophthalmology. With four volumes published per year, each subspecialty is newly visited every 24 months, with a distinct focus on recent developments. By bridging the gap between original research and medical textbooks, the transfer of this developing knowledge into daily practice is greatly enhanced.**

CORNEAL TRANSPLANTATION

Springer **This textbook reviews the novel techniques employed in corneal transplantation. It will assist fellows and corneal surgeons in using these techniques to best effect and in selecting patients for surgical procedures, taking into account the benefits and risks. Until 15 years ago the state-of-the art type of corneal transplantation was penetrating keratoplasty. Since the start of this millennium, however, important advances have been made in developing new surgical techniques. Today, the vast majority of keratoplasty procedures are performed as delicate lamellar procedures, either with the assistance of fine microkeratomes or femtosecond lasers or using very advanced surgical dissection procedures. Corneal Transplantation provides detailed information on these and other advances, which have helped patients undergoing keratoplasty to achieve a much faster visual recovery and a more stable eye with less risk of rejection episodes.**

CORNEA, E-BOOK

Elsevier Health Sciences **The only reference available that synthesizes this vast subspecialty into a single trustworthy resource, Cornea, 5th Edition, provides state-of-the-art coverage of the expanding range of contemporary corneal surgery, new diagnostic and imaging technologies, and medical management of corneal and external disease as well as ocular surface disease. Drs. Mark J. Mannis, Edward J. Holland, and a team of more than 200 global experts keep you up to date with both common and more obscure diseases and disorders and the best route to effective treatment and management, making this two-volume text a must-have resource for residents and fellows, general ophthalmologists, and seasoned cornea specialists. Features more than 2,300 exceptionally clear illustrations, diagnostic images, and step-by-step surgical photographs that offer superb visual guidance. Contains 14 new chapters, including Nanothin DSAEK, Aqueous Deficiency Dry Eye Syndrome, Evaluation of Recurrent Corneal Erosions, Evaluation of the Corneal Ulcer, Contemporary Approaches to the Biosynthetic Cornea, and Topography Guided Photorefractive Keratectomy, and more. Includes more than 80 video clips of current corneal surgery techniques, including new clips of the application of cryopreserved amniotic membrane in the treatment of acute stevens , penetrating keratoplasty, DM rupture management in STALK and in the keratonconus patient, and KAMRA corneal inlay implantation. Covers the latest developments in ocular surface transplantation, including new chapters on Conjunctival Limbal Autograft (CLAU); Living Related Conjunctival Limbal Allograft (Lr-CLAL); Keratolimbal Allograft; Cultivated Limbal Epithelial Transplantation; Simple Limbal Epithelial Transplantation; and Outcomes of Ocular Surface Transplantation. Provides key point overviews in each chapter that offer easier access to crucial information.**

CORNEA, 2-VOLUME SET

Elsevier **The only reference available that synthesizes this vast subspecialty into a single trustworthy resource, Cornea,**

5th Edition, provides state-of-the-art coverage of the expanding range of contemporary corneal surgery, new diagnostic and imaging technologies, and medical management of corneal and external disease as well as ocular surface disease. Drs. Mark J. Mannis, Edward J. Holland, and a team of more than 200 global experts keep you up to date with both common and more obscure diseases and disorders and the best route to effective treatment and management, making this two-volume text a must-have resource for residents and fellows, general ophthalmologists, and seasoned cornea specialists. Features more than 2,300 exceptionally clear illustrations, diagnostic images, and step-by-step surgical photographs that offer superb visual guidance. Contains 14 new chapters, including Nanothin DSAEK, Aqueous Deficiency Dry Eye Syndrome, Evaluation of Recurrent Corneal Erosions, Evaluation of the Corneal Ulcer, Contemporary Approaches to the Biosynthetic Cornea, and Topography Guided Photorefractive Keratectomy, and more. Includes more than 80 video clips of current corneal surgery techniques, including new clips of the application of amniotic membrane penetrating keratoplasty, Descemet rupture management in DALK, and endothelial keratoplasty among others. Covers the latest developments in ocular surface transplantation, including new chapters on Conjunctival Limbal Autograft (CLAU); Living Related Conjunctival Limbal Allograft (Lr-CLAL); Keratolimbal Allograft; Cultivated Limbal Epithelial Transplantation; Simple Limbal Epithelial Transplantation; and Outcomes of Ocular Surface Transplantation. Provides key point overviews in each chapter that offer easier access to crucial information. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

CORNEAL GRAFT FAILURE

John Wiley & Sons **The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia, in which groups of leading scientists from a range of topics across biology, chemistry and medicine assembled to present papers and discuss results. The Novartis Foundation, originally known as the Ciba Foundation, is well known to scientists and clinicians around the world.**

DSEK

WHAT YOU NEED TO KNOW ABOUT ENDOTHELIAL KERATOPLASTY

SLACK Incorporated **"DSEK: What You Need to Know About Endothelial Keratoplasty provides a comprehensive background of EK, where it is today, and where it is headed in the future. Francis W. Price, MD. who was the first to complete DSEK in the United States, along with Marianne Price, PhD, have designed this text to offer a special emphasis on how to perform surgeries along with preventing and managing complications. In addition, a diverse group of contributing authors provides a wide array of insights and tips for better patient outcomes."--BOOK JACKET.**

MEDICAL ATLAS OF CORNEA AND EXTERNAL DISEASES IN MIDDLE EASTERN POPULATIONS

IGI Global **Disease and pathologies can differ based on geographic area as well as social conditions of life. This is no less true for the treatment of cornea and external diseases. It is important for ophthalmologists to remain updated on the best practices for treatment of unique cases that may be rare in other countries, as well as vigilant as to the best course of treatment for specific demographics. Medical Atlas of Cornea and External Diseases in Middle Eastern Populations details the unique cases of cornea and external diseases in the Middle East, providing a comprehensive collection of cases that are very rare in other regions of the world. This atlas presents over 800 pictures of different corneal pathologies and external diseases, including before and after treatment, over ten years of clinical practice. The atlas focuses on Middle Eastern patients with all diagnoses and treatment performed by the author at Malayan Eye Center in Yerevan, Armenia. Covering topics such as corneal surgeries, eyelid diseases, and congenital disorders, this book is the ideal resource for ophthalmologists, junior practitioners, medical residents and students, professors, hospital administration, researchers, and academicians.**

CORNEAL REGENERATION

THERAPY AND SURGERY

Springer **This text provides expert instruction on the varying surgical techniques currently employed for the regeneration of the ocular surface. Corneal Regeneration: Therapy and Surgery begins with a thorough discussion of current research based on data obtained in clinical human studies, and discusses the potential clinical implications for this promising new stage of eye surgery. Sections devoted to the stem cell, regenerative surgery and therapy of the ocular surface epithelium, corneal stroma, and corneal endothelium follow, each section comprehensively covering applied anatomy, current therapy and regenerative techniques, with a look to future directions of the field including eventual cell therapy. Corneal Regeneration: Therapy and Surgery is the first book of its kind, systematically covering the developments the medical community has achieved in corneal regeneration from all angles. Written and edited by leading experts in the field, researchers and ophthalmologists alike will find this to be a unique source of information on corneal regeneration, as well as a thoughtful reflection on potential applications of regenerative surgery in ophthalmology as a whole.**

OCULAR SURFACE DISEASE: CORNEA, CONJUNCTIVA AND TEAR FILM

EXPERT CONSULT - ONLINE AND PRINT

Elsevier Health Sciences **Ocular Surface Disease: Cornea, Conjunctiva and Tear Film incorporates current research and the**

latest management strategies as well as classification systems and treatment paradigms for all forms of ocular surface disease. This is the first comprehensive resource that helps you to meet ocular surface disease challenges effectively using today's best medical and surgical approaches. Get the complete, evidence-based guidance you need to provide optimal care for your patients with ocular surface disease. Implement the latest drug treatments and surgical interventions to provide better outcomes with fewer complications. Hone and expand your surgical skills by watching videos of leading experts performing advanced procedures including ocular surface transplantation techniques; amniotic membrane transplantation; pterygium surgery; lamellar keratoplasty (DALK) in ocular surface disease; and keratoprosthesis surgery. Visualize how to proceed by reviewing detailed, full-color images and consulting new classification systems and treatment paradigms for mild to severe forms of ocular surface disease. Take it with you anywhere! Access the full text, downloadable image library, video clips, and more online at expertconsult.com.

CORNEA

Cornea, edited by Drs. Krachmer, Mannis and Holland, is the only truly comprehensive clinical reference available that covers external disease, anterior uveitis, and the expanding range of contemporary corneal surgery. In this 3rd edition, state-of-the-art coverage, 25 brand-new chapters, and 45 new videos provide expert guidance on performing femtosecond-assisted penetrating keratoplasty, DSAEK, deep anterior lamellar keratoplasty, and many other cutting-edge techniques.

CORNEAL BIOMECHANICS

FROM THEORY TO PRACTICE

Kugler Publications **While lecturing in recent months at a number of prominent institutions, I asked some of the residents and fellows whether and how they might benefit from a book on corneal biomechanics. The typical response was the look of a deer caught in the headlights as they tried to intuit the “appropriate” answer, but had little understanding or insight as to why this would be an important and useful knowledge base for them now, or in the future. I then posed the question differently. “Would a book that explained corneal biomechanical principles and testing devices and their application in detecting eyes at risk for developing keratoconus and post-LASIK ectasia, understanding the biomechanical impact of specific types of keratorefractive surgery and riboflavin UV-A corneal collagen cross-linking, and the impact of corneal biomechanics on the fidelity of intraocular pressure measurement and risk for glaucoma progression be of interest?” Framed in this context, the answer I got was a resounding, “Yes!” Therein lies a fundamental disconnect that highlights both the opportunity and need to educate all ophthalmologists about this nascent field. This comprehensive book is strengthened by the breadth of contributions from leading experts around the world and provides an important resource for ophthalmologists at all levels of training and experience. It gives a panoramic snapshot of our understanding of corneal biomechanics today, bridging the gap between theoretical principles, testing devices that are commercially available and in development as well as current and potential future clinical applications. While there has been a long-held appreciation that all types of keratorefractive surgery have an impact and interdependence on corneal biomechanics and wound healing, the initial finite element analyses that were applied to understand radial keratotomy were limited by incorrect assumptions that the cornea was a linear, elastic, homogenous, isotropic material.1 With the advent of excimer laser vision correction, critical observations indicated that Munnerlyn’s theoretic ablation profiles did not account for either lower or higher order (e.g. spherical aberration) refractive outcomes,2 suggesting that there were important components missing from the equation—e.g., corneal biomechanics and wound healing. In a seminal editorial, Roberts3 pointed out that the cornea is not a piece of plastic, but rather a material with viscoelastic qualities. Since that time, much has been learned about spatial and depth-related patterns of collagen orientation and interweaving, as well as the biomechanical response to different keratorefractive surgeries that sever tension-bearing lamellae, as the cornea responds to and redistributes stress induced by IOP, hydration, eye rubbing, blinking and extraocular muscle forces.3-6 The first reports of post-LASIK ectasia7 highlighted the need to identify a biomechanical signature of early keratoconus as well as corneas at high risk of developing ectasia irrespective of their current topography or tomography. The introduction of two instruments into clinical use—the Ocular Response Analyzer (ORA) and the Corneal Visualization Scheimpflug Technology (Corvis ST)—that allow measurement of various biomechanical metrics further catapulted the field. The availability of these instruments in routine clinical settings allowed the systematic study of the effect of age, collagen disorders, collagen cross-linking, corneal rings, flaps of various depths, contour, sidecut angulation, pockets, and flockets, just to name of few. Future application of biomechanics to the sclera may improve our understanding of the development and prevention of myopia, as well as scleral surgeries and treatments under development for presbyopia. It was appreciated by Goldmann and Schmidt that corneal thickness and curvature would influence the measurement of applanation tonometry. The recent ability to measure some corneal biomechanical metrics have led to IOP measurement that may be more immune both to their influence and the impact of central corneal thickness (CCT). Certain chapters in this book explain how a thin cornea could be stiffer than a thick one and that stiffness is also impacted by IOP, thereby precluding simplistic attempts to adjust IOP measurements using nomograms based upon CCT alone. Also highlighted is how corneal hysteresis, the ability of the cornea to absorb and dissipate energy during the bidirectional applanation response to a linear Gaussian air puff, appears to be an independent risk factor for glaucoma progression and rate of progression.9,10 This comprehensive book starts out with a section devoted to outlining basic biomechanical principles and theories, teaching us the language of what Dupps11 has referred to as “mechanospeak”, thus providing a context and common vocabulary to better comprehend the following chapters. By first defining basic concepts such as stress-strain relationships and creep, this theoretical basis is later applied to**

explain the pathogenesis of corneal diseases, e.g., explaining how a focal abnormality in corneal biomechanical properties precipitates a cycle of decompensation and localized thinning and steepening, clinically expressed as ectasia progression. These early chapters further detail biomechanical differences between in-vivo and ex-vivo testing, between human and animal corneas and sclera, and between methods of testing. The second section provides a thorough description of two FDA-approved devices to measure corneal biomechanics in the clinic (i.e., the ORA and the Corvis ST), as well as an overview of potential future technologies, including OCT with air puff stimulus, ocular pulse elastography, and Brilloiun microscopy. The third and final section of the book is a thorough treatise on how to interpret the metrics derived from the waveform provided by available clinical devices; their adjunct use in ectasia risk screening; the comparative biomechanical impact of various keratorefractive surgeries and corneal procedures such as PRK, LASIK, SMILE, and corneal collagen cross-linking; the impact of corneal biomechanics on IOP measurement; and potential biomechanical markers of enhanced susceptibility to glaucoma progression. This compendium of our current knowledge of corneal biomechanics, its measurement and application, provides a strong foundation to more fully understand advances in keratorefractive and corneal surgery, diseases, and treatments, all of which are interdependent on and influence inherent corneal biomechanical properties and behavior. Both the robust aspects and limitations of our current understanding are presented, including the challenge of creating accurate and predictive finite element models that incorporate the impact of IOP, corneal thickness, geometry, and scleral properties on corneal biomechanics. This book provides a key allowing clinical ophthalmologists and researchers to grasp the basics and nuances of this exciting field and to shape it as it evolves in the future.

CATARACT AND REFRACTIVE SURGERY

Springer Science & Business Media **-Cataract surgery is the most frequently performed surgical intervention worldwide, and the number of refractive surgery procedures, such as LASIK, is growing rapidly -All editors are internationally known experts in the field -Well structured text and design, quick and easy to read -Bridges the gap between primary literature and daily practice, indispensable for continuous education and advanced training -Every 2nd year each volume is updated to include timely information about new developments**

ESSENTIALS OF TISSUE AND CELLS BANKING

Springer Nature **It has been 10 years since the first edition of 'Essentials of Tissue Banking' has been published. There is still relatively little published on the technical and scientific principles on routine tissue and cell banking based on scientific principles. The 1st edition was very successful and, after a 10 year gap, there is a need of an update and an expansion of the book's remit. The format of the book follows that of the previous edition- split into 5 sections. Management of donors and the banking of common tissues and cells; Principles of storage and processing of tissues and cells; Ensuring the safety of the products by testing the donor, the tissues and the environment, supported by a quality system and an IT infrastructure- all working within the constraints of current regulatory and ethical environments. This edition however provides a significant update. Many the chapters have been completely rewritten by different experts. Like the 1st edition, they were given a free hand in the way they wrote their chapter, with a guideline that they had to be concise, clear and up to date. The authors were also asked to provide the scientific and technical basis that provides the rationale of the processes they describe. Also, the scope of the book has been somewhat extended. In view of the fact that many cellular therapies are now routinely practiced, 2 new chapters have been added: one on the banking of haematopoietic stem cells and one on human embryonic stem cells. They have been deliberately chosen to illustrate the extreme spectrum of cellular therapies from one of the simplest to one of the most complex. The intention of the book has remained the same: to cover and update banking of current practices in essential tissue and cell banking. It is therefore hoped that by keeping the book as concise and up to date as possible, it will find a place on the shelves of many tissue establishments.**

RESEARCH GRANTS INDEX

EYE PATHOLOGY

AN ILLUSTRATED GUIDE

Springer **This book is a comprehensive, in-depth, and up-to-date resource on eye pathology that will be of great practical value for ophthalmic and general pathologists and ophthalmologists. Congenital abnormalities, inflammatory conditions, infections, injuries, degenerative diseases, and tumors are all covered with the aid of more than 700 images. In the case of tumors, the wide variety of neoplasms that occur in the eyelid, conjunctiva, retina, uveal tract, lacrimal gland and sac, orbit, and optic nerve are comprehensively reviewed, and the most recent knowledge on the relation between genetics and prognosis is presented. Entries on specific diseases are organized in a standard way, with information on etiology, epidemiology, clinical presentation, pathological characteristics, differential diagnosis, therapy, and prognosis. The authors are all recognized experts and members of the European and American ophthalmic pathology societies.**

RESEARCH AWARDS INDEX

CONCISE ENCYCLOPEDIA OF BIOMEDICAL POLYMERS AND POLYMERIC BIOMATERIALS

CRC Press **The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11-volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia. The carefully culled**

content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print. A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials. Acknowledging the evolving nature of the field, the encyclopedia also features newly added content in areas such as tissue engineering, tissue repair and reconstruction, and biomimetic materials.

CORNEA E-BOOK

Elsevier Health Sciences **Highly praised in its first three editions, Cornea has become a market-leading cornerstone text and the immediate go-to resource for anyone working in this hugely popular and evolving sub-specialty. Offered over two volumes and featuring the knowledge of over 200 experts worldwide, it presents state-of-the-art coverage of the expanding range of contemporary corneal surgery, new diagnostic technology, and medical management of corneal and external disease as well as ocular surface disease. This updated edition includes 20 brand-new chapters, while an enhanced focus on images provides key visual guidance in this challenging field. Exceptionally clear illustrations, diagnostic images, and step-by-step surgical photographs offer superb visual guidance. 20 brand-new chapters cover the latest advances in the field, such as DMEK, Ultra-Thin DSEK and DSAEK techniques; endothelial cell transplantation; keratoplasty and prosthokeratoplasty techniques; collagen cross-linking; and new refractive surgical techniques (presbyopic implants and SMILE surgery). Boasts over 170 chapters with unique, cutting-edge content, as well as 2,300 clear illustrations – 670 of which are new to this edition. Presents a detailed exposition of the growing number of techniques for lamellar keratoplasty, including outcomes. Includes new sections on the latest developments in the management of ocular surface disease. Key point overviews in each chapter offer easier access to crucial information.**

THE BIOLOGY OF THE LABORATORY RABBIT

Academic Press **After nearly 20 years, the publication of this Second Edition of The Biology of the Laboratory Rabbit attests to its popularity within the scientific community as well as to the need to update an expanding database on the rabbit as a major species in laboratory investigation. The principal aim of this text is to provide a comprehensive and authoritative source of scientifically based information on a major laboratory animal species. The text continues to emphasize the normal biology as well as diseases of the European (domestic) rabbit, Orytolagus cuniculus, especially the New Zealand White breed, with occasional reference to other rabbit species (Sylvilagus sp.) and hares (Lepus sp.). New topics have been added to this second edition in response to changing trends in biomedical research and product testing as well as to suggestions from readers. New chapters included on: Anesthesia and analgesia Models in infectious disease research Models in ophthalmology and vision research Polyclonal antibody production Toxicity and safety testing Drug doses and clinical reference data**

OCULAR TISSUE ENGINEERING

MDPI **This book is a printed edition of the Special Issue "Ocular Tissue Engineering" that was published in JFB**

OPHTHALMIC ANAESTHESIA

Oxford University Press **This Oxford Specialist Handbook is a concise, practical yet comprehensive guide to ophthalmic anaesthesia, covering anatomy, specific anaesthetic techniques and principles, and recent changes in the field.**

FOUNDATIONS OF CORNEAL DISEASE

PAST, PRESENT AND FUTURE

Springer Nature **The field of cornea has seen tremendous advances over the last 40 years—this uniquely comprehensive book will discuss the history of these advances, current best practices in important diseases of the cornea and ocular surface, and examine future directions in diagnosis and management. Written by leading experts, many of whom trained under Claes Henrik Dohlman, MD, PhD, whose influence and many invaluable contributions have defined and shaped the field of cornea, each chapter will reflect the state of the art in the various aspects of cornea. Foundations of Corneal Disease: Past, Present, and Future contains six different sections, opening with an introduction which delves into the evolution of subspecialty training in cornea, and provides a historical perspective of our understanding of ocular surface disease. Section Two addresses perspectives on important corneal and external diseases including infectious keratitis, dry eye, and herpes simplex. Section Three and Section Four address surgery and surgical alternatives, and frontiers in corneal research. Section Six closes this book with a discussion of special topics: imaging the cornea, corneal blindness, eye banking, and clinical trials in dry eye, and explores future directions in this fast-paced field. Foundations of Corneal Disease: Past, Present, and Future contains is an ideal guide for corneal specialists, ophthalmology residents and fellows planning to enter cornea, corneal scientists, and to those in ophthalmology and visual science interested in a comprehensive resource on cornea and the history of this field.**

CORNEAL SURGERY

THEORY, TECHNIQUE AND TISSUE

Elsevier Health Sciences **"This updated, full-color 4th edition features a greatly expanded surgical focus for a practical guide to corneal surgery. The expert guidance of internationally renowned editors provides you with authoritative and current coverage that takes you from an in-depth exploration of corneal function as related to corneal surgery through**

to the correction of refractive errors. This easy-to-use, state-of-the-art resource has been reorganized to focus strictly on surgery to provide you with more coverage of recent surgical advances." --Book Jacket.

CORNEAL DISEASES IN CHILDREN

CHALLENGES AND CONTROVERSIES

Springer **This book provides comprehensive coverage of the most important corneal diseases in children, including congenital corneal opacities, infectious keratitis, corneal ectasia, ocular surface disorders and allergic eye disease. Highlights include an extensive discussion of corneal surgery in children, in-depth coverage of the role of various anterior segment ocular imaging modalities in the diagnosis and management of corneal diseases in the pediatric population, and surgical videos to further assist the reader. Chapters dedicated to amblyopia management and contact lens use in children round out the volume. Corneal Diseases in Children stands out as one of the few books dedicated to this important topic.**

OCULAR DISEASE: MECHANISMS AND MANAGEMENT E-BOOK

EXPERT CONSULT - ONLINE AND PRINT

Elsevier Health Sciences **Ocular Disease—a newly introduced companion volume to the classic Adler's Physiology of the Eye—correlates basic science and clinical management to describe the how and why of eye disease processes and the related best management protocols. Editors Leonard A. Levin and Daniel M. Albert—two of the world's leading ophthalmic clinician-scientists—have recruited as contributors the most expert and experienced authorities available in each of the major areas of ophthalmic disease specific to ophthalmology: retina, cornea, cataract, glaucoma, uveitis, and more. The concise chapter structure features liberal use of color—with 330 full-color line artworks, call-out boxes, summaries, and schematics for easy navigation and understanding. This comprehensive resource provides you with a better and more practical understanding of the science behind eye disease and its relation to treatment. Covers all areas of disease in ophthalmology including retina, cornea, cataract, glaucoma, and uveitis for the comprehensive information you need for managing clinical cases. Presents a unique and pragmatic blend of necessary basic science and clinical application to serve as a clinical guide to understanding the cause and rational management of ocular disease. Features 330 full-color line artworks that translate difficult concepts and discussions into concise schematics for improved understanding and comprehension. Provides the expert advice of internationally recognized editors with over 40 years of experience together with a group of world class contributors in basic science and clinical ophthalmology.**

PRE-DESCEMET'S ENDOTHELIAL KERATOPLASTY (PDEK)

JP Medical Ltd **Corneal transplantation is a widely practised surgical procedure. Lamellar techniques are favoured replacing penetrating keratoplasty (PK). Endothelial keratoplasty (EK) has been adapted as an alternative in the treatment of corneal endothelial disorders whereby Descemet's membrane and the endothelium are replaced. Pre-Descemet's endothelial keratoplasty (PDEK) is the latest surgical technique for corneal transplantation. This book is a step by step guide to PDEK for practising ophthalmologists. Divided into five sections, the text begins with the basics explaining corneal anatomy, pre-operative assessment, general techniques in keratoplasty, and the principles of PDEK. The following chapters discuss surgical techniques, special situations, and complications and results. The text covers numerous clinical scenarios and concludes with a section on miscellaneous topics such as OCT guided PDEK, eye bank preparation, and cosmetic iris implant complications. The text is further enhanced by surgical photographs and includes an interactive DVD ROM demonstrating PDEK techniques. Key points Step by step guide to Pre-Descemet's endothelial keratoplasty (PDEK) Explains surgical techniques for numerous clinical scenarios Includes miscellaneous topics such as OCT guided PDEK and cosmetic iris implant complications Accompanying DVD ROM demonstrates PDEK techniques**

OPHTHALMOLOGY E-BOOK

EXPERT CONSULT: ONLINE AND PRINT

Elsevier Health Sciences **Get the quick answers you need on every aspect of clinical ophthalmology and apply them in your day-to-day practice. The latest edition of Ophthalmology by Drs. Yanoff and Duker presents practical, expert, concise guidance on nearly every ophthalmic condition and procedure, equipping you to efficiently overcome whatever clinical challenges you may face. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Compatible with Kindle®, nook®, and other popular devices. Focus on the clinically actionable information you need thanks to a more streamlined format. Make optimal use of the newest drug therapies, including Anti-VEGF treatment for wet ARMD and bevacizumab treatment for complications of diabetes. Get authoritative guidance on the newest treatment options for cornea disorders, including evolving ocular surface reconstruction techniques and new cornea procedures such as DSEK. Take it with you anywhere. Access the full text, video clips, and more online at Expert Consult. Apply the latest advances in the diagnosis and treatment of ocular disease, including new drug therapies for retinal disorders; today's expanded uses of optical coherence tomography (OCT) and high-resolution imaging modalities; new corneal, cataract and refractive surgical approaches; and new developments in molecular biology and genetics, ocular surface disease, glaucoma testing, neuro-ophthalmology, uveitis, ocular tumors, and much more. Visualize how to proceed by viewing more than 2200 illustrations (1,900 in full**

color) depicting the complete range of clinical disorders, imaging methods, and surgical techniques. Hone and expand your surgical skills by watching 40 brand-new videos demonstrating key techniques in cornea, cataract, refractive, retina and glaucoma surgery. Spend less time searching thanks to a user-friendly visual format designed for quick, "easy-in easy-out" reference and an instant understanding on any topic.

COMPREHENSIVE BIOTECHNOLOGY

Elsevier **Comprehensive Biotechnology, Third Edition unifies, in a single source, a huge amount of information in this growing field. The book covers scientific fundamentals, along with engineering considerations and applications in industry, agriculture, medicine, the environment and socio-economics, including the related government regulatory overviews. This new edition builds on the solid basis provided by previous editions, incorporating all recent advances in the field since the second edition was published in 2011. Offers researchers a one-stop shop for information on the subject of biotechnology Provides in-depth treatment of relevant topics from recognized authorities, including the contributions of a Nobel laureate Presents the perspective of researchers in different fields, such as biochemistry, agriculture, engineering, biomedicine and environmental science**

CUMULATED INDEX MEDICUS

CORNEAL DYSTROPHIES

Karger Medical and Scientific Publishers **Corneal dystrophies (CD) are bilateral hereditary disorders of the cornea in which one or several parts of the cornea lose their transparency. As the dystrophy can start in different layers of the cornea, they are classified accordingly as epithelial dystrophies, stromal dystrophies and endothelial dystrophies. This volume includes a description of the new international IC3D classification of CD reflecting what we currently know of the clinical, pathological, and genetic aspects of these disorders. Further contributions give an insight into differential diagnostics and histology, which can confirm the diagnosis as for instance in granular CD type 2, as well as DNA analysis of CD providing additional information about the pathogenesis. Also, procedures such as the phototherapeutic keratectomy with the excimer laser, the new modalities of lamellar keratoplasty, and penetrating keratoplasty are described. This publication holds a wealth of new and topical information on CD for ophthalmologists and geneticists alike.**

BASIC TECHNIQUES OF OPHTHALMIC SURGERY

THE MASSACHUSETTS EYE AND EAR INFIRMARY ILLUSTRATED MANUAL OF OPHTHALMOLOGY

Elsevier Health Sciences **With high quality color images combined with up-to-date treatment guidelines and a proven template, the third edition of The Massachusetts Eye and Ear Infirmary Illustrated Manual of Ophthalmology is a vital companion for every ophthalmic trainee, primary care practitioner and emergency trauma unit. The bonus PDA software allows you to access the entire contents of the manual on the go. Provides thorough, easily accessible and up-to-date information for all common eye disorders, creating an all-in-one resource for quick diagnosis and treatment. Uses highlighted emergency management boxes for a clear presentation of the crucial treatment of critical situations. Follows a templated format with key boxes highlighting important information. Presents full-color photographs throughout so you can compare real case presentations for more accurate diagnosis. Orders chapters anatomically (not by ophthalmic subspecialty) making it easier to locate the desired information by looking at the effected area. Provides a complete and thorough update with expanded sections, including age related macular degeneration, diabetic retinopathy, uveitis, glaucoma, dry eye, and refractive surgeries. Incorporates over 100 new high quality clinical color photos plus spectral domain OCT, CT scan, fluorescein angiogram, visual field, and corneal topography images. Adds brand new appendices outlining basic eye care and differential diagnosis information to help minimize wasted time in the clinic. Offers immediate and convenient access to the whole manual when on the go with bonus PDA software.**

ANTERIOR SEGMENT

Elsevier Health Sciences **This title in the Rapid Diagnosis in Ophthalmology Series presents a wealth of full-color images - along with differential diagnoses - in side-by-side page layouts to assist you in identifying a full range of anterior segment disorders. A templated format expedites access to the guidance you need to diagnose the most common conditions related to the cornea and anterior segment - from simple to complex - encountered in practice. Coverage of the key features, diagnostic criteria, and treatment options for corneal infections, anterior uveitis, corneal dystrophies and degenerations - and many more - equips you with the latest guidance. Hundreds of full-color images present conditions as they present in real life. Common diagnostic pitfalls discuss what to look out for when making a difficult diagnosis. A templated, color-coded layout and differential diagnosis boxes for each condition help you make quick, accurate clinical decisions. A focus on the most common conditions encountered in practice allows you to efficiently formulate treatment plans and referrals. SERIES EDITORS: Jay S. Duker, MD, Director, New England Eye Center, Vitreoretinal Diseases and Surgery Service; Director, Pediatric Retinal Referral Center, Uveitis & Immunology Service; Professor and Chair of Ophthalmology, Tufts University School of Medicine, Boston, MA and Marian S. Macsai, MD, Chief, Division of Ophthalmology, Evanston Northwestern Healthcare; Professor and Vice-Chair of the Department of Ophthalmology, Feinberg School of Medicine, Northwestern University, MI**

CORNEAL REGENERATIVE MEDICINE

METHODS AND PROTOCOLS

Humana Press **Continuous regeneration of the cornea is necessary to maintain this tissue in the transparent state that is essential for vision. Therapy for repair of the damaged anterior cornea is currently addressed through the transplantation of donor corneas or the delivery of limbal epithelial stem cells (LESC) to the ocular surface using amniotic membrane (AM) as a supporting scaffold. Research on the bioengineering of corneal equivalents as replacement tissue is underway to develop viable corneal prosthetics. Corneal Regenerative Medicine: Methods and Protocols provides a concise overview of essential techniques in the field of corneal regenerative medicine, highlighting novel strategies to guide the management of key therapies within this area of medicine. Divided into four convenient sections, topics include the identification, characterisation and cultivation of LESC, as well as the investigation of biopolymers used as the basis for corneal substitutes. Written in the successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Corneal Regenerative Medicine: Methods and Protocols covers the fundamental techniques useful for both the laboratory and clinical settings.**

REGENERATIVE MEDICINE APPLICATIONS IN ORGAN TRANSPLANTATION

Academic Press **Regenerative Medicine Applications in Organ Transplantation illustrates exactly how these two fields are coming together and can benefit one another. It discusses technologies being developed, methods being implemented, and which of these are the most promising. The text encompasses tissue engineering, biomaterial sciences, stem cell biology, and developmental biology, all from a transplant perspective. Organ systems considered include liver, renal, intestinal, pancreatic, and more. Leaders from both fields have contributed chapters, clearly illustrating that regenerative medicine and solid organ transplantation speak the same language and that both aim for similar medical outcomes. The overall theme of the book is to provide insight into the synergy between organ transplantation and regenerative medicine. Recent groundbreaking achievements in regenerative medicine have received unprecedented coverage by the media, fueling interest and enthusiasm in transplant clinicians and researchers. Regenerative medicine is changing the premise of solid organ transplantation, requiring transplantation investigators to become familiar with regenerative medicine investigations that can be extremely relevant to their work. Similarly, regenerative medicine investigators need to be aware of the needs of the transplant field to bring these two fields together for greater results. Bridges the gap between regenerative medicine and solid organ transplantation and highlights reasons for collaboration Explains the importance and future potential of regenerative medicine to the transplant community Illustrates to regenerative medicine investigators the needs of the transplant discipline to drive and guide investigations in the most promising directions**

HUMAN AMNIOTIC MEMBRANE: BASIC SCIENCE AND CLINICAL APPLICATION

World Scientific **This book is a comprehensive guide for all tissue bank operators to screen, procure and process amniotic membrane for clinical application.The amnion comes close to being the ideal biological membrane or dressing — readily available, inexpensive to procure and process. Its basic science is discussed in detail — anatomy, biological and biomechanical properties.It can be procured from the placenta in normal vaginal deliveries and from Caesarean Sections. Processing is by freeze-drying or by air-drying process with sterilisation using gamma irradiation.The product has low antigenicity, has anti-microbial properties with ability to enhance epithelisation with marked relief of pain. It is useful as a dressing for wounds — flap wounds, burn wounds, injury wounds, diabetic ulcers, leprous ulcers and post-surgery wounds and post-radiation wounds. It is also used as a biological scaffold for cells in tissue engineering. Its ophthalmic applications include treatment of corneal ulcers and conjunctival tumours. Oral uses include gingiva depigmentation and periodontal regeneration.**

BIOMATERIALS AND REGENERATIVE MEDICINE IN OPHTHALMOLOGY

Elsevier **With an increasingly aged population, eye diseases are becoming more widespread. Biomaterials have contributed in recent years to numerous medical devices for the restoration of eyesight, improving many patients' quality of life. Consequently, biomaterials and regenerative medicine are becoming increasingly important to the advances of ophthalmology and optometry. Biomaterials and regenerative medicine in ophthalmology reviews the present status and future direction of biomaterials and regenerative medicine in this important field. Part one discusses applications in the anterior segment of the eye with chapters on such topics as advances in intraocular lenses (IOLs), synthetic corneal implants, contact lenses, and tissue engineering of the lens. Part two then reviews applications in the posterior segment of the eye with such chapters on designing hydrogels as vitreous substitutes, retinal repair and regeneration and the development of tissue engineered membranes. Chapters in Part three discuss other pertinent topics such as hydrogel sealants for wound repair in ophthalmic surgery, orbital enucleation implants and polymeric materials for orbital reconstruction. With its distinguished editor and international team of contributors, Biomaterials and regenerative medicine in ophthalmology is a standard reference for scientists and clinicians, as well as all those concerned with this ophthalmology. Reviews the increasingly important role of biomaterials and regenerative medicine in the advancement of ophthalmology and optometry Provides an overview of the present status and future direction of biomaterials and regenerative medicine in this important field Discusses applications in both the anterior and prosterior segments of the eye with chapters on such topics as synthetic corneal implants and**

retinal repair and regeneration

EVIDENCE-BASED EYE CARE

Lippincott Williams & Wilkins **This volume offers every clinical ophthalmologist valuable guidance in implementing the results of the latest multicenter clinical trials in practice. Chapters on all major disease entities review all pertinent trials, bring these trials into a real-world setting, and show how the results should influence day-to-day patient management. Coverage includes diseases in all ophthalmologic subspecialties—cornea/external disease, glaucoma, retina, pediatric ophthalmology, ocular oncology, neuro-ophthalmology, and oculoplastics. More than 170 illustrations, 92 in full color, complement the text. General ophthalmologists will have at their fingertips, in an easily digestible format, the current standard of patient care across the spectrum of ophthalmology.**

SMOLIN AND THOFT'S THE CORNEA

SCIENTIFIC FOUNDATIONS AND CLINICAL PRACTICE

Lippincott Williams & Wilkins **Smolin and Thoft’s The Cornea is often praised as the best available source of information on corneal and external diseases. This new edition, with its greatly expanded color atlas section, continues to provide guidance on diagnosing and managing problems associated with the cornea. It is now fully updated and contains additional information on corneal surgery, refractive surgery, and stem cell grafting, and a new chapter on optical and therapeutic contact lenses.**

EYE BANKING

Karger Medical and Scientific Publishers **Corneal transplantation has been performed with increasing success for more than 100 years. In the last 20 years, standards, outcomes and developments in the field of corneal transplantation and eye banking have been discussed at the annual meetings of the European Eye Bank Association (EEBA) to share and promote good practice and guarantee a high level of safety for the recipients. The EEBA standards for donor selection and eye banking provide professional advice and guidance to eye banks and corneal surgeons.This book highlights the history and development of eye banking and all significant steps including the donation, processing and distribution of corneas for transplantation. Additional contributions on the sclera, amnion and retinal pigment epithelium provide further insights into ocular surgery and the future potential for transplantation. This book contributes the essentials in eye banking activities for ophthalmologists and eye bankers as well as for regulatory and legislative authorities.**