

现代眼库实用技术

PRACTICAL GUIDE FOR MODERN EYE BANKING

主编 姚晓明

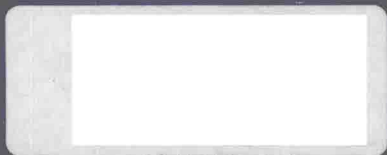
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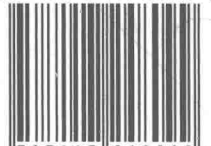
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Practical Guide for Modern Eye Banking

主 编 姚晓明 祝枚东 于 莉

副主编 黎 明 康 黔

主 审 徐锦堂

秘 书 姚 迪

编 者 (以姓氏笔画为序)

于 莉 王 岚(Lan Wang)(美) 王明武(Mingwu Wang)(美)

王雪文(Wong Catherine)(香港) 未 阳 邢宝刚 刘语菲

齐 卫 孙轶军 李志伟 杨朝忠 连 浩 张远平 张 凯

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Rachel Peltier(美)



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主 编

Editor-in-Chief

姚晓明,医学博士、主任医师。1995年毕业于广州暨南大学。现为成都爱迪眼科医院业务院长、深圳市政协委员、中国医师协会理事、深圳市慈善会晓明眼库基金创始人兼法人、斯里兰卡国际眼库国际荣誉顾问、美国国际复明眼库会员、仲和视觉康复发展中心理事。《中华眼外伤职业眼病杂志》《中国实用眼科杂志》和《山东大学耳鼻喉眼学报》编委。曾任暨南大学硕士研究生导师、深圳市眼科医院眼表与角膜病区主任,云南省中心眼库、长沙爱尔眼库、金华红十字眼库、呼和浩特红十字眼库和西安市眼库的顾问。推动中国大陆第一部器官移植法《深圳经济特区人体器官捐献移植条例》的立法,促成了深圳、湖北、吉林、湖南、新疆等多个省市的角膜捐献。主编和参编了《眼库》《眼表移植学》《共焦显微镜临床应用指南》《手法无缝线小切口白内障手术》等10多部专业著作。获多项省市科技成果奖、2项发明专利和6项实用新型专利。从1999年至今,率队前往西藏、云南、青海、新疆、江苏等国内多数省区和缅甸、柬埔寨、尼泊尔等国为上万例贫困患者实施复明手术。2014年9月,参与了由中国和斯里兰卡两国元首夫人共同启动的“爱的回馈——中斯友好光明行”大型慈善活动,为1000例斯里兰卡白内障患者成功实施了复明手术,受到了两国元首的接见。获得的荣誉包括:2009年“感动伊春年度人物”、2012年深圳市“十佳医务工作者”、2013年度深港生活大奖“年度致敬人物”、深圳关爱行动10年“慈善楷模”。



Dr. Yao Xiaoming, MD Ophthalmology (China Ji'nan University), Deputy Director of the Chendu Aidi Eye Hospital, member of Chinese Medical Association, Shenzhen CPPCC member, founder of Xiaoming Eye Bank Fund (China), the Honorary International Advisor of Sri Lanka International Eye Bank, member of International Sight-Restoration Eye Bank, USA, member of Zhonghe Visual Rehabilitation & Development Center. Editorial board member of *Chinese Journal of Ocular Trauma and Occupational Eye Disease*, *Chinese Journal of Practical Ophthalmology* and *Journal of Otolaryngology and Ophthalmology of Shandong University*. He was professor of Ji'nan University, director of corneal and ocular disorders department of Shenzhen eye hospital. He promoted the first Chinese public legislation for the organ transplantation Shenzhen Special Economic Zone Human Organ Donation and Transplantation Regulations. As an adviser of many eye banks around China, he helped to brought about the first corneal donation historically in several prov-

inces.

He is an expert surgeon in corneal disease and cataract blindness, edited more than 10 books for medical professional such as *Eye Banking*, *Ocular Transplantations*, *Clinical Application Guide for In vivo Confocal microscopy*, *Manual Sutureless Small Incision Cataract Surgery*, et al. He hold a numbers of patent including 2 invention patents 6 application patents approved by State Intellectual Property Office(PRC).

He has providing free operation for more than 20,000 cataract patients from China, Nepal, Myanmar, Cambodia and other countries since 1999. Invited by the Chinese Ministry of Foreign Affairs, he participated the charity “Tribute to Love —Sri Lanka Free Cataract Surgery Campaign for a Brighter Tomorrow” in 2014 and was received by the Presidents of the two countries. He has been awarded with the 2005 Lions Clubs International “President Award”, Shenzhen-Hong Kong Year 2013 Living Award “Annual Tribute people”, “China Shenzhen Care Action Charity Model”, “The 10 Top Doctors in Shenzhen, China” and other honors.

主 编

Editor-in-Chief

祝枚东, 中国南京医科大学医学、外科学学士 (MBBS), 眼科学医学硕士、澳大利亚悉尼大学眼科学博士。现任澳大利亚新南威尔士州狮子会眼库和新南威尔士州组织库及澳大利亚眼生物库高级科学家、悉尼大学医学系副教授、高级研究员、医学硕士和博士生导师、南京医科大学第一临床医学院客座教授、江苏省眼库医学顾问及国际华人海外眼科及视觉研究协会理事。长期于国内外从事眼科临床、科研和教学, 擅长视网膜眼底病、角膜病和眼库专项及各类眼科药物临床实验, 参与完成及在研各级科研课题 40 余项, 临床药物试验 50 余项, 在 SIC 杂志发表论文 50 余篇, 主、参编 *Macular Degeneration, Eye and Vision Research Developments; Eye Disease Associated with Sleep Disorders* 等专著。自 1995 年以来一直致力于中国现代眼库的建设。自 1996 年起帮助中国眼科医生在悉尼大学眼科系和悉尼眼科医院培训并向中国眼库输送新技术, 同时帮助中国眼库工作人员的技术培训。除参与指导中国的眼库工作外, 她还在印度和越南等亚洲国家为眼库建立、技术支持和员工培训做出贡献。



Dr. Meidong Zhu obtained her MBBS, and MMed of Ophthalmology from Nanjing Medical University in 1982 and 1988, respectively. She was later awarded PhD in Ophthalmology in 1998 by University of Sydney, Australia. Currently she works as a Seniorhospital scientist in Lions New South Wales Eye Bank, New South Wales Tissue Bank and Australian Ocular Biobank in Sydney, Australia. As an Honorary Associate Professor in University of Sydney, she supervises students in Master of Medicine, Master of Philosophy and Doctor of Philosophy studies in School of Medicine of the University. Other positions she holds include Honorary Professor of the First Clinical Medical College, Nanjing Medical University, Medical Advisor in Jiangsu Province Eye Bank and Board Member of *the Overseas Chinese Association for Visual and Eye Research*.

She has been engaged in clinical ophthalmology, ocular scientific research and teaching, in Australia, China and other countries since her graduation. Her special interests are in retinal and fundus disease, corneal transplantation and eye banking. She also has expertise in various types of ophthalmic clinical trials, in both academic and commercial environments. She has led or participated in more than 50 clinical trials and completed more than 40 research projects at all levels. She published more than 50 articles in the SIC journals. She also participated writing and editing

books including *Macular Degeneration*”, *Practical Technology in Modern Eye Bank*, *Eye and Vision Research Developments: Eye Disease Associated with Sleep Disorders* and other monographs.

Since 1995, she has been committing to and leading to the construction of Chinese modern eye banks. She has been introducing new technology to the Chinese Eye Banks in many cities, and at the same time, conducting staff training in Chinese Eye Banks. She also set up the relationship with China to help Chinese ophthalmologists participating in training at the Department of Ophthalmology, University of Sydney and Sydney Eye Hospital. In addition, she contributes her expert knowledge to other Asian countries, such as India and Vietnam, for the establishment of eye banks, technical support and staff training. Her work won her high reputations.

主 编

Editor-in-Chief

于莉,医学博士,深圳市眼科医院副主任医师,美国亚利桑那大学眼科系访问学者。

从事角膜与眼表病专科医师工作十年,任深圳市眼科医院眼库副主任、外联办主任,深圳市显微外科专业委员会委员,广东省医疗行业协会眼科管理委员会委员。第一作者发表国内外眼科核心期刊论文 10 余篇,主持省市级科研项目 4 项,授权专利 11 项,出版眼科专著 3 部。曾多次赴缅甸、柬埔寨、斯里兰卡、尼泊尔及大陆老少边穷地区开展免费白内障扶贫手术,擅长白内障、角膜及眼表病的诊治。



Yu Li, MD, Associate chief physician, Shenzhen eye hospital, visiting scholar at University of Arizona (USA).

Yu has been engaged 10 years as a specialist in the field of cornea and ocular surface diseases. She acts as the Deputy Director of Eye bank, Shenzhen eye hospital, director of department of Communication, member of Shenzhen microsurgery specialty committee, and member of Guangdong healthcare industry association Ophthalmology Management Committee. As the first author, she has published more than 10 research papers in core journals at home and abroad. She has been in charge of 4 scientific researches at provincial and municipal levels. She has 11 authorized patents and 3 published ophthalmology treatises. Yu is also an expert in the treatment of cataract, cornea, and ocular surface disease. She has traveled multiple times to Myanmar, Cambodia, Sri Lanka, Nepal, and undeveloped and some poverty-stricken area in China to provide free cataract operations to served the poor patients.

副主编

Associate Editor-in-Chief



黎明,医学硕士,深圳市眼科医院眼科副主任,2003年毕业于中山大学中山眼科中心,其间参与了重组人表皮生长因子(rhEGF)滴眼液Ⅱ期临床试验及卫生部课题基金(961122)、广东省自然科学基金(960145)和广东省重点科技攻关项目(962205004)资助的系列科研,致力于眼表疾病,特别是角膜共焦显微镜的相关临床研究。毕业后多次参与深圳狮子会组织的防盲扶贫活动。2005年于SCI期刊*EYE*发表*Tear Function and Goblet Cell Density after Pterygium Excision*,在国内眼科杂志上发表论文30余篇,主编《共焦显微镜临床应用指南》等。参与的“角膜移植免疫排斥反应的系列防治研究”获2004年中华人民共和国教育部二等奖和2005年广东省科学技术三等奖。2009年获深圳市高层次人才奖。

Li Ming, M. Med., deputy director of ophthalmology department of Shenzhen eye hospital, the Guangdong Provincial Natural Science Foundation of China (960145) and the key scientific and technological project of Guangdong Province (962205004), and participated in the clinical research of the recombinant human epidermal growth factor (rhEGF) eye drops and the Ministry of Health(961122), et al of funded series of research, committed to the ocular surface disease, especially the corneal confocal microscope related clinical research. After graduation, I participated in the anti-blind and poverty alleviation activities organized by the Shenzhen Lions Association. 2005 published in the SCI journal *EYE Tear Function and Goblet Cell Density after Pterygium Excision*, published in the domestic ophthalmology magazine more than 30 articles. Participated in the “corneal transplantation immune rejection of the series of prevention and control research” by the People’s Republic of China in 2004 the Ministry of Education and the Guangdong Provincial Science and Technology Award in 2005 third prize. 2009 by the Shenzhen high-level talent award.

副主编

Associate Editor-in-Chief

康黔,成都爱迪眼科医院角膜眼表疾病专科主任、眼库医学主任、四川省医学会眼科专业委员会委员、西南眼库联盟理事。致力于角膜和眼表疾病的诊断和治疗,尤其擅长于药物联合角膜移植治疗严重感染性角膜疾病。参与组建中-斯国际联合眼库。在国内专业期刊发表论文 20 余篇。

Kang Qian is the director of cornea & ocular surface disorders department and medical director of Eye Bank of Chengdu AIDI Eye Hospital, member of Ophthalmology Special Committee of Sichuan Medical Association, council member of Southwest China Eye Bank Alliance. Kang Qian devotes himself in diagnosis and treatment of corneal diseases and ocular surface diseases. He is especially skilled at the treatment of seriously infectious corneal diseases with the combination therapy of medicine and corneal transplantation. Kang Qian participated with enthusiasm in the establishment of China-Sri Lanka Cooperative Eye Bank in Chengdu. He has published more than 20 papers on the academic periodical in China.



主 审

Chief Reviewer

徐锦堂,眼科教授、主任医师、博士研究生导师。1955年毕业于大连医学院,1956年被派往前苏联莫斯科医学院攻读眼科研究生,并在乌克兰 Filatov 眼科研究所学习角膜移植。1959年获前苏联副博士学位。学成回国后到哈尔滨医学院附院眼科工作。

1980年起,先后任暨南大学眼科教研室主任、眼科教研室主任、中华医学会眼科分会角膜病学组组长、广东省眼科学会副主任、卫生部眼科实验室学术委员会委员、暨南大学学术学位委员会委员、医学院学位委员会主席、《眼科研究》和《眼科新进展》等杂志副主编及其他5本杂志编委,主编《眼科急症的防治》《角膜移植术》《角膜病基础理论与临床》《眼科全书》(角膜、结膜及巩膜病)、《眼表疾病的基础理论与临床》《中西医角膜病学》《眼烧伤基础理论与临床》《眼卫生保健》;参编《眼科临床药理学》《实用眼表病学》《中华眼科学》和《医学金鉴》(眼科卷)等。1991年和1996年获国家教委科技进步一、二等奖,1997年获国家科技进步奖(第一合作单位),1998年获国务院侨办科技进步一等奖、解放军总后卫生部科技进步三等奖,2002年和2004年广东省科技进步奖,1998年和2003年先后获实用新型专利和发明专利授权。

先后获1991年广东省高教“七五”科技先进工作者、1992年国务院特贴专家、1998年国务院侨办所属院校优秀教师,2003年广东省老科技先进工作者、2006年暨南大学“终身贡献奖”、2007年广东省医学会“突出贡献专家奖”。



Xu Jintang, professor of ophthalmology, chief physician, doctoral supervisor. He graduated from China Dalian Medical University in 1955. Dispatched to Moscow Medical College of the former Soviet Union to study for a graduate degree and studied corneal transplantation in the ophthalmic research institution of Filatov, Ukraine, in 1956.

Got the degree of Candidate of Sciences of the former Soviet Union in 1959 and returned to China after graduation he worked in Ophthalmology department of Harbin medical college affiliated hospital. From 1980, he successively served as research director of Ophthalmology in China Ji'nan University; research director of ophthalmology, head of corneal disease group of Chinese medical association; deputy director of Guangdong provincial academy of ophthalmology; committee member of ophthalmology academic board of the Ministry of Health; committee member of academic board of Ji'nan University; president of academic degrees committee of medical college; editorial

board member for 5 magazines such as *Ophthalmic Research* and *Evolution of Ophthalmology*, etc.); acted as the chief editor of *Control of Ophthalmic Acute Diseases* , *Corneal Transplantation* , *Basic Theories and Clinic of Corneal diseases* , *Encyclopedia of Ophthalmology* (*Corneal, Conjunctival and Scleral Diseases fascicle*) , *Basic Theories and Clinic Medicine of Ocular Surface Diseases* , *Keratonosus in Traditional Chinese and Western Medicine* and *Basic Theories and Clinic medicine of Eye Burns* , *Ophthalmic Hygiene* , Participated in the editing of *Clinical Pharmacology of Ophthalmology* , *Functional Theories of Ocular Surface Diseases* , *Chinese Ophthalmology* and *Essential References for Medical Science* . He was awarded the First and Second Prize for Science and Technology Advancement by National Board of Education in 1991 and 1996 , the Prize for National Science and Technology Advancement (the First Cooperating Organization) in 1997 , the First Prize for National Science and Technology Advancement by the Overseas Chinese Affairs Office of the State Council and the third prize for National Science and Technology Advancement by the Health Department of the Liberation Army in 1998 , Guangdong Provincial Prize for National Science and Technology Advancement in 2002 and 2004 , obtained Utility Model Patent and Invention patent Authorization in 1998 and 2003 , Scientist and Technologist of Guangdong Province , the expert received special benefit from the State Council in 1992 , prominent teacher of the universities affiliate to the Overseas Chinese Affairs Office of the State Council in 1998 , the Senior Advanced Scientist and Technologist of Guangdong Province in 2003 , Lifetime contribution award of Ji'nan University in 2006 , the experts who have Outstanding Contributions in Guangdong Province in 2007 .

编者

Editors



于莉,医学博士,深圳市眼科医院副主任医师,美国亚利桑那大学眼科系访问学者。

Yu Li, MD, Associate chief physician, Shenzhen eye hospital, visiting scholar at University of Arizona (USA).



王明武,医学博士,美国亚利桑那大学医学院眼科与视觉科学系角膜及眼表疾病中心主任,临床眼科副主任,副教授。

Mingwu Wang, MD, PhD

Vice Chair, associate professor of clinical ophthalmology, director of cornea and external disease service, department of ophthalmology and vision science, The university of Arizona college of medicine, USA



王岚,医学博士,美国阿拉巴马眼库亚洲事务总监。

Wang Lan, Director of Asia distribution, Alabama eye bank, USA



王雪文(Wong Catherine),香港医管局眼库主管。

Wong Catherine, Director of Hongkong hospital authority eye bank, China.



未阳,成都爱迪眼科医院-斯里兰卡眼捐献协会国际联合眼库协调员。

Wei Yang, CEBT, Coordinator of Chengdu AIDI eye hospital-Sri Lanka international cooperative eye bank, China



刘语菲,爱尔眼科医院集团眼表及眼库项目主任。

Liu Yufei, Manager of ocular surface disorders & eye bank Project, Aier eye hospital group, China



齐卫,医学硕士,汕尾亮睛工程眼科医院主任,主治医师。

Qi Wei, M. Med., Director, Shanwei Project Vision eye hospital, China.



孙轶军,秦皇岛市第一医院眼科,副主任医师。

Sun Yijun, Associate chief physician, department of ophthalmology, The first hospital of Qinhuangdao, China.



李志伟,医学博士,山东省立医院主治医师。

Li Zhiwei, MD., Attending doctor, department of ophthalmology, Shandong provincial hospital, China



杨朝忠,主任医师、教授、硕士研究生导师,山东省菏泽医学专科学校眼科研究所所长、菏泽医专附属医院副院长、中华医学会眼免疫学组委员。

Yang Chaozhong, Chief physician, professor, director of ophthalmic institute of Shandong Heze medical college, China



连浩,成都爱迪眼科医院业务院长,副主任医师,白内障复明国际(亚洲)援助项目专家。

Lian hao, Director, department of cataract and deputy-president of Chengdu AIDI eye hospital, expert of international(Asia) cataract aid surgery service, China.



张凯,山东省立医院眼耳鼻喉科医院眼科中心副主任,医学博士,主治医师。

Zhang Kai, MD, Vice director, Ophthalmic center of Shandong provincial hospital, China.



张智勇,福州东南眼科医院角膜与眼表疾病科主任,副主任医师。

Zhang Zhiyong, Department of ocular & corneal diseases, associate chief physician, Fuzhou Southeast eye hospital, China.



陈梅珠,医学博士、主任医师、解放军福州总医院眼科主任,福建省眼科学会常委、福建省角膜病学组副组长,厦门大学医学院教授。

Chen Meizhu, MD, chief physician, director of ophthalmology department of the people's liberation army Fuzhou general hospital, member of the standing committee of the Fujian provincial society of ophthalmology, vice-director of Fujian provincial corneal diseases group, professor of Xiamen University school of medicine, China.



林宝涛, 医学硕士, 深圳市眼科医院主治医师。

Lin Baotao, MMed, Attending doctor, Shenzhen eye hospital, China.



周文强, 成都爱迪眼科医院院长助理, 国际部主任。

Zhou Wenqiang, Head of International affairs, Assistant to the general manager of Chengdu AIDI eye hospital, China.



赵敏, 重庆医科大学附属第一医院眼科教授、主任医师、重庆市眼库主任、川渝眼库联盟理事长、重庆市视觉光学学会主任委员、中华眼科学会角膜病学组委员。

Zhao Min, professor, chief Physician of The first hospital affiliated to Chongqing medical university, director of Chongqing eye bank, board chairman of Sichuan-Chongqing eye bank alliance, chairman of committee of Chongqing academy of visual optics, member of the Chinese medical association corneal diseases group, China



祝枚东, 中国南京医科大学医学、外科学学士、眼科学医学硕士, 澳大利亚悉尼大学眼科学博士。澳大利亚新南威尔士州狮子会眼库和新南威尔士州组织库及澳大利亚眼生物库高级科学家、悉尼大学医学系副教授。

Zhu Meidong, MBBS, MMed Ophthalmology, PhD Ophthalmology. Senior hospital scientist in Lions New South Wales Eye Bank, New South Wales Tissue Bank and Australian Ocular Biobank in Sydney, Australia.