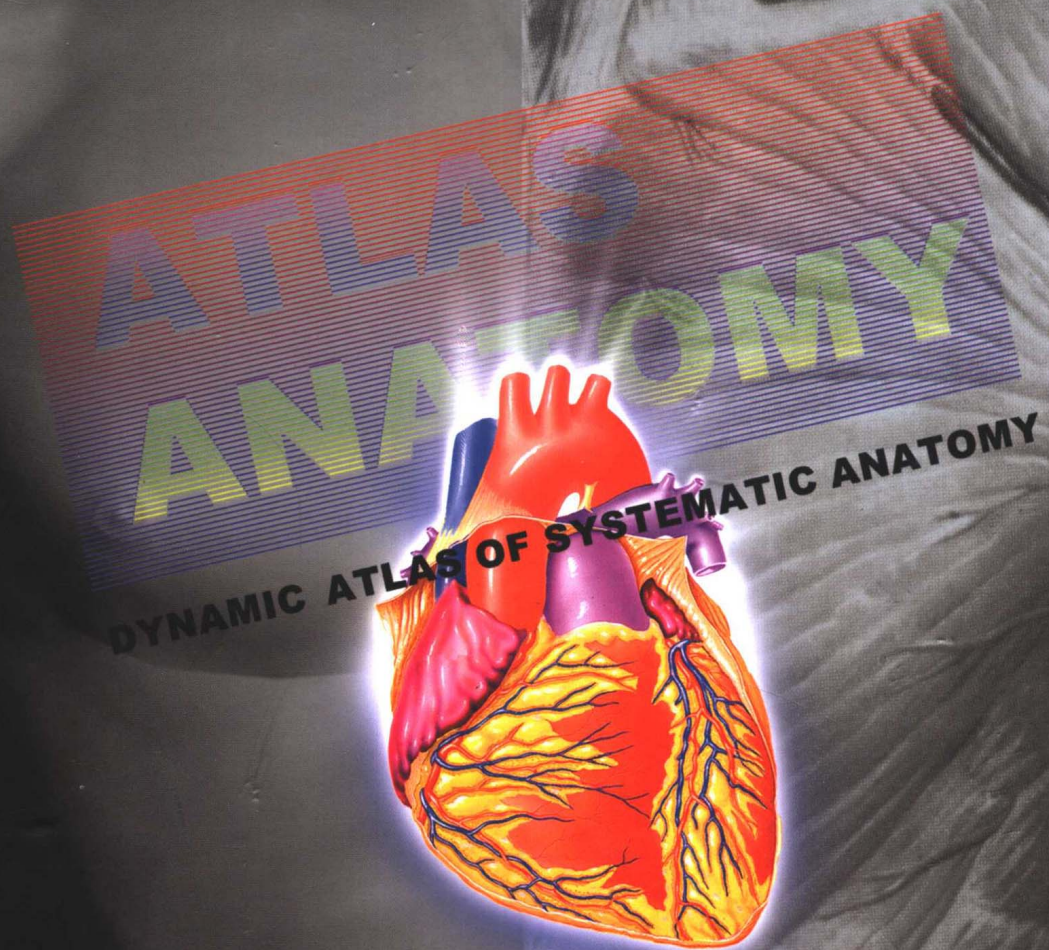


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主 编 幸健华 孟威宏



系统解剖学动画感彩色图谱

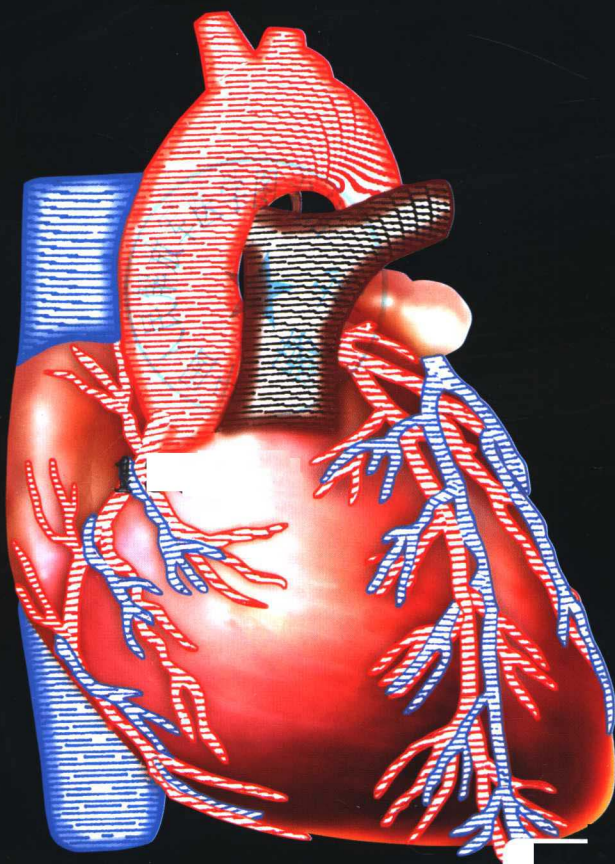
 辽宁科学技术出版社

主 审 ◎ 陈金源 刘纯义

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DYNAMIC
ATLAS OF
SYSTEMATIC
ANATOMY

系统解剖学动画感 彩色图谱



辽宁科学技术出版社
中国·沈阳

图书在版编目 (CIP) 数据

系统解剖学动画感彩色图谱 / 幸健华, 孟威宏主
编. — 沈阳: 辽宁科学技术出版社, 2006.3
ISBN 7-5381-4676-8

I. 系... II. ①幸... ②孟... III. 系统解剖学—图
谱 IV. R322-64

中国版本图书馆 CIP 数据核字 (2006) 第 008635 号

出 版 者: 辽宁科学技术出版社

(地址: 沈阳市和平区十一纬路 25 号 邮编: 110003)

印 刷 者: 辽宁印刷集团美术印刷厂

发 行 者: 各地新华书店

开 本: 787mm × 1092mm 1/16

字 数: 320 千字

印 张: 16

插 页: 4

印 数: 1~6 000

出版时间: 2006 年 3 月第 1 版

印刷时间: 2006 年 3 月第 1 次印刷

责任编辑: 宋纯智

封面设计: 刘 枫

版式设计: 于 浪

责任校对: 东 戈

定 价: 80.00 元

联系电话: 024-23284374

邮购咨询电话: 024-23284502

E-mail: lkzsb@mail.lnpgc.com.cn

http://www.lnkj.com.cn

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编著者名单

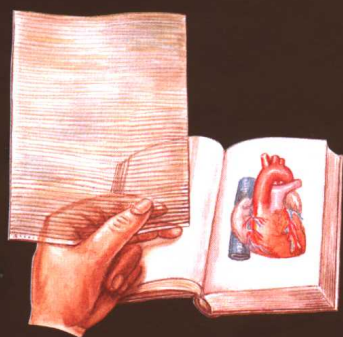
动画感图操作使用说明

动画感图产生动感效果是由“光栅动片”和“动感图”两者结合产生的。每部图谱都附有一张透明片基，它上面印有平行且粗细均匀的黑色线条，我们称此片为“光栅动片”；目录中凡标有※号的图称为“动感图”。将“光栅动片”取出，覆盖在“动感图”上（图1），匀速、缓慢向下方拉动“光栅动片”（图2），“动感图”便产生向不同方向流动的动画感。“光栅动片”覆盖在没有标※号的图上是不会产生动感的。动感效果的好坏和内容正确与否须注意以下三点：

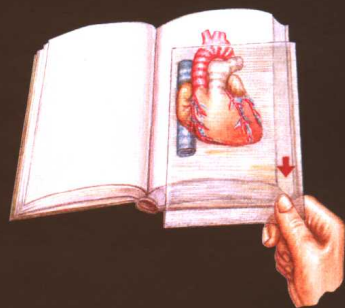
（1）“光栅动片”覆盖在“动感图”上的线条方向一定是横向平行，竖直方向则根本不能产生动感，斜向则动感效果不佳或不正确。

（2）“光栅动片”在“动感图”上的拉动或移动方向必须向下，向上也能产生动感，但动感效果与结构内容相反。

（3）向下拉动“光栅动片”时，须匀速、缓慢进行，否则动感效果不佳。另外，务必保存和保护好“光栅动片”，没有“光栅动片”“动感图”是不能产生动感的，划伤“光栅动片”会降低其透明度而影响动感效果。如果“光栅动片”不慎丢失，可来函到出版社另行邮购。



（图1）



（图2）

作为人体解剖学园地里的一位老园丁，我深情地关注着这个园地里的一花一草，一树一木。解剖学图谱，是这个园地里占有重要地位的一角，曾经孕育过许多五彩纷呈、格调清新的奇葩异果，美不胜收。争奇斗艳的图谱各具特色，或以绘图艺术见长，或以设计巧妙取胜。但是，迄今为止，还没有一部图谱能超凡脱俗，使静态的图像，产生动感效果。

“高楼晓见一花开，便觉春光四面来”，当幸健华、孟威宏老师将《系统解剖学动画感彩色图谱》展现在我眼前时，用简易的“光栅动片”轻轻地一拉，“一波才动万波随”，波澜起伏的血液运转、淋巴返流、原尿滤过、神经传导等，韵味无穷，栩栩如生，让人大开眼界，大饱眼福，从中领悟到人体形态与功能水乳交融的奥秘。

“行成于思，业精于勤”，动态图谱创作人能从看似平常并不起眼的现象中，独具慧眼，找到了美妙的闪光亮点。从两把格尺重叠互动的效应，找到光学中光栅运动的理论依据。结合多年解剖学教学实践体会，精心设计，经过绳锯木断、水滴石穿的奋斗过程，终于荣获国家发明专利，形成了“独留巧思传千古”的新风格，难能可贵，可喜可贺，并欣之为序。

中国工程院院士
中国解剖学会名誉理事长

傅世真

2005年9月于广州

前言

《系统解剖学动画感彩色图谱》是运用作者幸健华、孟威宏的发明专利“具有动画感的动画式卡通图”（专利号：Z196445355.5，国际专利主分类号：B44F1/06）的研究成果，经三年时间全部手工绘制而成。动画电影人们非常熟悉，它是采用画面分格拍摄连续放映来实现动感，而“动画感图谱”的动感特点是用光学中的“光栅”原理，将静图用平行线或曲线精准设计绘制后，用特制的透明“光栅动片”覆盖其上，拉动或移动“光栅动片”，你会发现静图产生流动、转动、扩散、缩小等动画感，此即为“光栅叠加效应”。该图谱就是利用此原理，将其中83余幅静图设计为动画感图，形象逼真地模拟血液流动、尿的滤过、神经传导、淋巴回流、声波及光的传导等动感。能让印刷完成的静图产生动感效果，的确开创了图谱由静变动的先河，也使《系统解剖学动画感彩色图谱》在众多的解剖图谱中独树一帜。由于它的科学性、新颖性、真实性和栩栩如生的逼真效果，对掌握和理解解剖学中重、难点内容既简化又形象，必将成为广大临床医护工作者和医学院校师生的良师益友。

众所周知，解剖学属形态学，形态结构是功能的基础，将形态和功能有机地结合，且形象生动地演示出来，既是形态学教育工作者寻求的手段，也是学生在解剖学课堂教学中从抽象思维走向形象思维的企盼。经多年的研究和精心设计制作，我们完成了这部独具特色的，国内外首创的医学工具书——《系统解剖学动画感彩色图谱》。它像正常图谱一样使用，每部书中都附有一张印有横线条的透明的“光栅动片”片基。在读完操作使用说明之后即可掌握怎样观看动图。动图的动感效果好与坏和你的操作正确与否密切相关，请务必注意：其一，片基和图紧贴不留间距；其二，下拉光栅动片要缓慢匀速，并和静图保持上下平行左右垂直。

前言

本图谱遵照国内高等医学院校解剖教学大纲的要求,系统地展示了正常人体形态、结构和部分生理功能,跟进目前教学中提倡纵横联系基础和临床等多学科知识这一鲜活特点,为使《图谱》内容更加丰富、完臻和实用,我们尝试着增添了部分与临床密切相关的局部解剖及水平断面内容。在参阅了大量的国内外图谱和相关资料的基础上,结合动画感表现形式,绘制了一些简洁明了的模式图,起到了对重、难点内容的容易理解、通俗易懂、画龙点睛的作用。

本图谱按系统解剖学运动系统、内脏学(消化、呼吸、泌尿、生殖系统和腹膜)、脉管系统(心血管和淋巴系统)、感觉器官、神经和内分泌系统以及胸、腹、盆腔部分断面等内容绘制编排,共有501幅图,分不动图和动感图两部分,为了不打破系统内容的完整性,特将动图参插在各系统章节之中,只是每幅动图标题注有“※”符号提示,目录中凡动画感图也有此符号标识相对应,以便读者查找。

本图谱在研制过程中得到了解剖界前辈钟世镇院士、柏树令教授、陈金源教授、张昆教授、刘纯义教授、王令概教授、霍琨教授、王石林恩师、中国医科大学美术教研室徐国成主任、刘枫老师和许多同仁的不吝指教,在此深表谢意。

由于我们的水平有限,不当之处在所难免,敬请读者批评斧正。

编者

2005年10月1日

于中国人民解放军第四六三医院



运动系统 LOCOMOTOR SYSTEM

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