

<<行为和认知神经科学>>

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前言

人脑或神经系统是我们已知的宇宙中最复杂的物质结构，神经科学是探索脑的奥秘的科学，是21世纪迅猛发展的生命科学中最为突出的领域之一。

过去的十多年中，分子生物学和计算机科学技术的快速发展，极大地推动了神经科学的发展，人类基因组DNA序列的阐明及其对神经科学的推动、脑功能成像技术研究人脑和心理活动的巨大进展便是最突出的代表。

对许多神经元活动的基本过程，神经科学家已经可以通过基因操作，在基因及其编码的蛋白分子的结构和功能水平上进行描述和分析，从而精细地研究其复杂的细胞膜上和胞内信号的调控分子机制。

脑功能成像技术使得过去只能停留在人脑这个“黑箱”外、对心理现象的脑机制进行各种猜测和假说的时代成为过去，人脑的认知和思维活动变得“看得见”了。

神经科学不仅吸引着各类神经生物学家、化学家和物理学家，而且吸引分子生物学家、计算机科学家和心理学家纷纷加入其中，成为真正意义上的多种学科交叉的科学。

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内容概要

本书特色： 内容全面——全书共分7个部分，覆盖神经科学领域的各个方面，第三版增加了神经科学发展较快的领域，如树突的发育、化学感觉、小脑、眼动、睡眠和梦，以及意识等。

作者专业——本书由多位美国科学院院士参与，其中两位曾经担任过神经科学学会（Society for Neuroscience）的主席，由100多位神经科学家共同编著而成。

生动详实——全书包含530余幅图例和照片，便于读者理解，本书附赠光盘包含全书所有彩图。

结构新颖——为了使读者能够更好地理解文中内容和开阔视野，书内增加了大量背景性材料，于正文中用方框标出，包括重要的实验、病例、实验方法和概念等。

每章末尾介绍一些有关文献和进一步阅读的补充材料，供读者学习和深入钻研。

作者简介

Larry R. Squire is Distinguished Professor of Psychiatry, Neurosciences, and Psychology at the University of California School of Medicine, San Diego, and Research Career Scientist at the Veterans Affairs Medical Center, San Diego. He investigates the organization and neurological foundations of memory. He is a former President of the Society for Neuroscience and is a member of the National Academy of Sciences and the Institute of Medicine.

Darwin K. Berg is Distinguished Professor in the Division of Biological Sciences at the University of California, San Diego. He has been chairman of the Biology Department and currently serves as Councilor of the Society for Neuroscience and as a Board member of the Kavli Institute for Brain and Mind. His research is focused on the roles of nicotinic cholinergic signaling in the vertebrate nervous system.

Floyd Bloom is Professor Emeritus in the Molecular and Integrative Neuroscience Department (MIND) at The Scripps Research Institute. His recent awards include the Sarnat Award from the Institute of Medicine and the Salmon Medal of the New York Academy of Medicine. He is a former President of the Society for Neuroscience and is a member of the National Academy of Sciences and the Institute of Medicine.

Sascha du Lac is an Investigator of the Howard Hughes Medical Institute and an Associate Professor of Systems Neurobiology at the Salk Institute for Biological Studies. Her research interests are in the neurobiology of resilience and learning, and her laboratory investigates behavioral, circuit, cellular, and molecular mechanisms in the sense of balance.

Anirvan Ghosh is Stephen Kuffler Professor in the Division of Biological Sciences at the University of California, San Diego and Director of the graduate program in Neurosciences. His research interests include the development of synaptic connections in the central nervous system and the role of activity-dependent gene expression in the cortical development. He is recipient of the Presidential Early Career Award for Scientists and Engineers and the Society for Neuroscience Young Investigator Award.

Nicholas C. Spitzer is Distinguished Professor in the Division of Biological Sciences at the University of California, San Diego. His research is focused on neuronal differentiation and the role of electrical activity and calcium signaling in the assembly of the nervous system. He has been chairman of the Biology Department and the Neurobiology Section, a trustee of the Grass Foundation, and served as Councilor of the Society for Neuroscience. He is a member of the American Academy of Arts and Sciences and Co-Director of the Kavli Institute for Brain and Mind.

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章节摘录

插图：Larry R. Squire is Distinguished Professor of Psychiatry, Neurosciences, and Psychology at the University of California School of Medicine, San Diego, and Research Career Scientist at the Veterans Affairs Medical Center, San Diego. He investigates the organization and neurological foundations of memory. He is a former President of the Society for Neuroscience and is a member of the National Academy of Sciences and the Institute of Medicine. Darwin K. Berg is Distinguished Professor in the Division of Biological Sciences at the University of California, San Diego. He has been chairman of the Biology Department and currently serves as Councilor of the Society for Neuroscience and as a Board member of the Kavli Institute for Brain and Mind. His research is focused on the roles of nicotinic cholinergic signaling in the vertebrate nervous system. Floyd Bloom is Professor Emeritus in the Molecular and Integrative Neuroscience Department (MIND) at The Scripps Research Institute. His recent awards include the Sarnat Award from the Institute of Medicine and the Salmon Medal of the New York Academy of Medicine. He is a former President of the Society for Neuroscience and is a member of the National Academy of Sciences and the Institute of Medicine. Sascha du Lac is an Investigator of the Howard Hughes Medical Institute and an Associate Professor of Systems Neurobiology at the Salk Institute for Biological Studies. Her research interests are in the neurobiology of resilience and learning, and her laboratory investigates behavioral, circuit, cellular, and molecular mechanisms in the sense of balance. Anirvan Ghosh is Stephen Kuffler Professor in the Division of Biological Sciences at the University of California, San Diego and Director of the graduate program in Neurosciences. His research interests include the development of synaptic connections in the central nervous system and the role of activity-dependent gene expression in the cortical development. He is recipient of the Presidential Early Career Award for Scientists and Engineers and the Society for Neuroscience Young Investigator Award. Nicholas C. Spitzer is Distinguished Professor in the Division of Biological Sciences at the University of California, San Diego. His research is focused on neuronal differentiation and the role of electrical activity and calcium signaling in the assembly of the nervous system. He has been chairman of the Biology Department and the Neurobiology Section, a trustee of the Grass Foundation, and served as Councilor of the Society for Neuroscience. He is a member of the American Academy of Arts and Sciences and Co-Director of the Kavli Institute for Brain and Mind.

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《行为和认知神经科学(附盘)(导读版·原版引进)》由多位美国科学院院士参与，其中两位曾经担任过神经科学学会（Society for Neuroscience）的主席，由100多位神经科学家共同编著而成。生动详实——全书包含530余幅图例和照片，便于读者理解，《行为和认知神经科学(附盘)(导读版·原版引进)》附赠光盘包含全书所有彩图。

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