

Neuroscience 2015 List of Categories

A. Development and Regeneration

01. Induction and Pattern Formation
02. Stem Cells, Neuronal and Glial Production/Differentiation
03. Cell Migration and Layer/Nuclear Formation
04. Adult Neurogenesis
05. Axonal/Dendritic Growth and Circuit Formation
06. Synaptogenesis and activity-dependent development
07. Tissue Engineering and Transplantation
08. Trophic Factors and Cytokines
09. Axonal Regeneration and Tissue Repair
10. Neuronal Death and Apoptosis
11. Evolution
12. Others

B. Cellular and Molecular Mechanisms of Excitability and Neural Functions

13. Neurotransmitters, Gliotransmitters, and Modulators
14. Receptors and Transporters
15. Signal Transduction and Modulation
16. Ion Channels and Excitable Membranes
17. Synapse
18. Synaptic Plasticity
19. Axonal Transport and Cytoskeleton
20. Glia and Glia-Neuron Interaction
21. Myelination and Myelin-Axon Interaction
22. Blood-Brain Barrier
23. Gene Regulation and Epigenetics
24. Regulation and Function of RNA, Translational Regulation
25. Posttranslational Modulation and Proteolysis
26. Drug Development
27. Others

C. Disorders of the Nervous System

28. Alzheimer's Disease, Other Dementia, Aging
29. Parkinson's Disease and Related Disorders
30. Polyglutamine Diseases, ALS, SCD, Other Neurodegenerative Disorder
31. Myopathy, Neuromuscular Disorder, Neuropathy, Spinal Disease
32. Aging
33. Neurodevelopmental Disorders
34. Epilepsy, Headache, Vertigo
35. Cerebrovascular Disease and Ischemia
36. Demyelinating Disorders
37. Injury
38. Neuroprotection, Neurotoxicity and Neuroinflammation
39. Neuro-oncology
40. Schizophrenia
41. Mood Disorders
42. Anxiety Disorders
43. Drug Addiction and Abuse
44. Behavioral Pharmacology
45. Others

D. Sensory and Motor Systems

46. Olfaction, Taste, Chemical Senses
47. Auditory and Vestibular Systems
48. Multisensory
49. Visual System
50. Oculomotor System
51. Sensorimotor control
52. Sensorimotor Learning/Plasticity
53. Viscerosensory System
54. Pain, Itch and Their Disorders
55. Somatosensory System
56. Rhythmic Motor Pattern Generation
57. Kinematics and EMG
58. Spinal cord Motor Neurons and Muscle
59. Cerebellum
60. Basal Ganglia
61. Posture and Gait
62. Voluntary movements
63. Others

E. Homeostatic and Neuroendocrine Systems

64. Autonomic Nervous System
65. Neuroendocrine System
66. Neuroimmunology
67. Stress
68. Reproduction
69. Metabolism and Regulation of Food Intake
70. Sleep and Biological Rhythms
71. Others

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F. Behavior and Cognition

- 72. Instinctive Behavior
- 73. Motivation and Emotion
- 74. Reward and Decision Making
- 75. Attention and Perceptual Integration
- 76. Spatial and Temporal Cognition
- 77. Learning and Long-term Memory
- 78. Working Memory and Executive Function
- 79. Social Behavior
- 80. Language
- 81. Development of Cognition
- 82. Aging of Cognition
- 83. Others

G. Modeling, Hardware Implementation, and Applications

- 84. Neural Network Modeling
- 85. Neuroinformatics
- 86. Learning Theory
- 87. Neuronal Data Analysis
- 88. Neuroengineering
- 89. Hardware Implementation
- 90. BMI/BCI
- 91. Image/Sound Processing
- 92. Robotics
- 93. Large Scale Simulation
- 94. Other Applications

H. Novel Methods and Technology Development

- 95. Molecular, Biochemical, and Genetic Techniques
- 96. Genome Informatics, Proteomics, and Systems Biology
- 97. Staining, Tracing, and Imaging Techniques
- 98. Optical methods
- 99. Optogenetics
- 100. Electrophysiology
- 101. Others

I. History, Teaching, Public Awareness, and Others

- 102. History, Education and Outreach
- 103. Social and Legal Issues of Neuroscience
- 104. Neuroethics
- 105. Industrial Application
- 106. Others