

List of Category

A. Cellular and Molecular Mechanisms of Excitability and Neural Functions

1. Ion Channels and Excitable Membranes
2. Neurotransmitters, Gliotransmitters, and Modulators
3. Receptors and Transporters
4. Synapse
5. Synaptic Plasticity
6. Signal Transduction and Modulation
7. Axonal Transport and Cytoskeleton
8. Myelination and Myelin-Axon Interaction
9. Blood-Brain Barrier
10. Gene Regulation and Epigenetics
11. Regulation and Function of RNA, Translational Regulation
12. Posttranslational Modulation and Proteolysis
13. Drug Development
14. Others

B. Development and Regeneration

15. Induction and Pattern Formation
16. Stem Cells, Neuronal and Glial Production/Differentiation
17. Cell Migration and Layer/Nuclear Formation
18. Axonal/Dendritic Growth and Circuit Formation
19. Trophic Factors and Cytokines
20. Axonal Regeneration and Tissue Repair
21. Neuronal Death and Apoptosis
22. Adult Neurogenesis
23. Evolution
24. Tissue Engineering and Transplantation
25. Others

C. Sensory and Motor Systems

26. Kinematics and EMG
27. Spinal cord Motor Neurons and Muscle
28. Posture and Gait
29. Rhythmic Motor Pattern Generation
30. Cerebellum

31. Basal Ganglia
32. Voluntary movements
33. Oculomotor System
34. Sensori-Motor Plasticity
35. Visual System
36. Auditory and Vestibular Systems
37. Olfaction, Taste, Chemical Senses
38. Somatosensory System
39. Viscerosensory System
40. Pain, Itch and Their Disorders
41. Multisensory
42. Others

D. Homeostatic and Neuroendocrine Systems

43. Autonomic Nervous System
44. Neuroendocrine System
45. Neuroimmunology
46. Stress
47. Reproduction
48. Metabolism and Regulation of Food Intake
49. Others

E. Behavior and Cognition

50. Instinctive Behavior
51. Sleep and Biological Rhythms
52. Motivation and Emotion
53. Reward and Decision Making
54. Attention and Perceptual Integration
55. Spatial and Temporal Cognition
56. Learning and Long-term Memory
57. Working Memory and Executive Function
58. Social Behavior
59. Language
60. Development of Cognition
61. Aging of Cognition
62. Others

F. Disorders of the Nervous System

- 63. Alzheimer's Disease, Other Dementia, Aging
- 64. Parkinson's Disease and Related Disorders
- 65. Polyglutamine Diseases, ALS, SCD, Other Neurodegenerative Disorder
- 66. Myopathy, Neuromuscular Disorder, Neuropathy, Spinal Disease
- 67. Demyelinating Disorders
- 68. Neuroprotection, Neurotoxicity and Neuroinflammation
- 69. Epilepsy, Headache, Vertigo
- 70. Schizophrenia
- 71. Mood Disorders
- 72. Anxiety Disorders
- 73. Drug Addiction and Abuse
- 74. Neurodevelopmental Disorders
- 75. Other Psychiatric Disorders
- 76. Cerebrovascular Disease and Ischemia
- 77. Injury
- 78. Neuro-oncology
- 79. Behavioral Pharmacology
- 80. Others

G. Modeling, Hardware Implementation, and Applications

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

H. Methodology

- 92. Molecular, Biochemical, and Genetic Techniques
- 93. Genome Informatics, Proteomics, and Systems Biology
- 94. Staining, Tracing, and Imaging Techniques

- 95. Optical methods
- 96. Optogenetics
- 97. Electrophysiology
- 98. Others

I. Others

- 99. Neuroethics
- 100. Social and Legal Issues of Neuroscience
- 101. History, Education and Outreach
- 102. Industrial Application
- 103. Others