

ESI 中神经科学与行为领域热点论文 信息推送

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——基于 2020 年 5 月更新数据

ESI (Essential Science Indicators) 热点论文指近两年内发表的在近两个月内被引次数高居前千分之一的 SCI/SSCI 文章，即最近两个月内最受关注的文章。

本期入榜文章是 2017 年 12 月至 2019 年 12 月发表的文章中，在 2020 年 1 月和 2 月两个月内被引次数排名前千分之一的文章。数据更新时间为 2020 年 5 月 14 日。

本期发布神经科学与行为领域热点文章 102 篇，其中首次入榜文章 48 篇。单篇最高被引 1112 次，最低被引 5 次。被引 1112 次的文章发表在 *Stroke* 上，标题为“2018 Guidelines for the Early Management of Patients With Acute Ischemic Stroke: A Guideline for Healthcare Professionals From the American Heart Association/American Stroke Association”，第一作者为北卡罗来纳大学教堂山分校 (University of North Carolina, Chapel Hill) 的 William J. Powers，研究讨论了 AHA/ASA 发布的 2018 版急性缺血性中风早期管理指导方针，已连续数期占据榜首。首次入榜的 48 篇中单篇最高被引 67 次的文章标题为“Blood-brain barrier dysfunction and recovery after ischemic stroke”，发表在 *Progress in Neurobiology* 上，第一作者是匹兹堡大学 (University of Pittsburgh) 和复旦大学的 Xiaoyan Jiang，介绍了缺血性卒中后的血脑屏障功能障碍及康复。

本期首次入榜主题是纳粹时代的神经病学家和神经科学家，部分首次入榜文章有：

- 36: 一个模拟阿尔茨海默症神经退行性病变和神经炎症的 3D 培养模型；
- 38: 神经形态计算；
- 46: 青少年脑认知发育 (adolescent brain cognitive development, ABCD) 研究；
- 48: 健康老龄化的认知神经科学；
- 51: 精神疾病的神经计算机制；
- 56: 睡眠-觉醒节律与阿尔茨海默症；
- 63: 突触修剪与精神分裂症；
- 65: 脑地形图能否预测人类的认知、人格与情感；
- 81: 免疫神经精神疾病——脑疾病的新视角；
- 85: 感知觉与皮层神经元架构。

该领域所有热点文章的详细信息请见附表（按文章被引次数排列）。

附表：ESI 2020 年 5 月更新的神经科学与行为领域热点论文

注：红色为首次入榜文章或领域；黑色在往期亦是热点文章。

序号	文章主题	题目	第一作者及其单位	出处及原文或摘要链接	单篇被引
1	AHA/ASA: 2018 版急性缺血性 中风早期管理指导方针	2018 Guidelines for the early management of patients with acute ischemic stroke: a guideline for healthcare professionals from the American Heart Association/American Stroke Association	POWERS, WJ University of North Carolina, Chapel Hill	STROKE 49 (3): E46-E110 MAR 2018 https://www.ahajournals.org/doi/10.1161/STR.000000000000158	1112
2	2018 版美国国家老龄化研究所 和阿尔茨海默病学会 (National institute on aging—Alzheimer's association, NIA-AA) 研究框 架	NIA-AA research framework: toward a biological definition of Alzheimers disease	JACK, CR ALZHEIMER&APOS;S ASSOCIATION	ALZHEIMERS DEMENT 14 (4): 535-562 APR 2018 https://www.sciencedirect.com/science/article/pii/S1552526018300724	661
3	海马神经元发生在发育早期后 急剧下降	Human hippocampal neurogenesis drops sharply in children to	SORRELLS, SF CIBERNED	NATURE 555 (7696): 377-+ MAR 15 2018	310

		undetectable levels in adults		http://iobs.fudan.edu.cn/Assets/userfiles/sys_eb538c1c-65ff-4e82-8e6a-a1ef01127fed/files/%E6%9C%80%E6%96%B0%E8%AE%BA%E6%96%87/Human%20hippocampal%20neurogenesis%20drops%20sharply%20in%20children%20to%20undetectable%20levels%20in%20adults.pdf	
4	基于 DNA 甲基化对中枢神经系统肿瘤进行分类	DNA methylation-based classification of central nervous system tumours	CAPPER, D ACADEMIC MEDICAL CENTER AMSTERDAM	NATURE 555 (7697): 469-+ MAR 22 2018 https://www.nature.com/articles/nature26000	277
5	阿尔茨海默病和其他神经退行性疾病的血脑屏障破裂	Blood-brain barrier breakdown in Alzheimer disease and other neurodegenerative disorders	Sweeney, MD University of Southern California	NAT REV NEUROL 14 (3): 133- 150 MAR 2018 https://www.nature.com/articles/nrne	223

				<u>urol.2017.188</u>	
6	CBTRUS 统计报告：美国 2011-2015 年间原发性脑肿瘤和中枢神经系统肿瘤的流行病学研究	CBTRUS statistical report: primary brain and other central nervous system tumors diagnosed in the united states in 2011-2015	OSTROM, QT BAYLOR COLLEGE OF MEDICINE	NEURO-ONCOLOGY 20: 1-86 SUPPL. 4 OCT 2018 https://academic.oup.com/neuro-oncology/article/20/suppl_4/iv1/5090960	186
7	一种基于柔性有机电子器件的高灵敏度仿生触觉神经系统	A bioinspired flexible organic artificial afferent nerve	KIM, Y KYUNG HEE UNIVERSITY	SCIENCE 360 (6392): 998-+ JUN 1 2018 http://science.sciencemag.org/content/360/6392/998.full	148
8	SPLit-seq: 利用成本低廉的 DNA 组合条形码, 能够以约 1 美分的成本对单个细胞进行转	Single-cell profiling of the developing mouse brain and spinal cord with split-pool barcoding	ROSENBERG, AB ALLEN INSTITUTE FOR BRAIN SCIENCE	SCIENCE 360 (6385): 176-+ APR 13 2018 http://science.sciencemag.org/content	145

	录组测序			/360/6385/176.full	
9	肠道微生物代谢与小胶质细胞和星形胶质细胞功能	Microglial control of astrocytes in response to microbial metabolites	Rothhammer, V Harvard University	NATURE 557 (7707): 724-+ MAY 31 2018 https://www.nature.com/articles/s41586-018-0119-x	126
10	单细胞转录组测序	Three-dimensional intact-tissue sequencing of single-cell transcriptional states	WANG, X CNRS - NATIONAL INSTITUTE FOR BIOLOGY (INSB)	SCIENCE 361 (6400): 380-+ SP. ISS. SI JUL 27 2018 http://science.sciencemag.org/content/361/6400/eaat5691.full	116
11	综述：神经丝蛋白（neurofilament）与神经系统疾病	Neurofilaments as biomarkers in neurological disorders	KHALIL, M AUTONOMOUS UNIVERSITY OF BARCELONA	NAT REV NEUROL 14 (10): 577- 589 OCT 2018 https://www.nature.com/articles/s41582-018-0058-z	112

12	小鼠新皮层的细胞类型	Shared and distinct transcriptomic cell types across neocortical areas	TASIC, B ALLEN INSTITUTE FOR BRAIN SCIENCE	NATURE 563 (7729): 72-+ NOV 1 2018 https://www.nature.com/articles/s41586-018-0654-5	106
13	脑膜淋巴系统功能与老龄化和阿尔茨海默症	Functional aspects of meningeal lymphatics in ageing and Alzheimers disease	DA MESQUITA, S UNIVERSITY OF TRENTO	NATURE 560 (7717): 185-+ AUG 9 2018 https://www.nature.com/articles/s41586-018-0368-8	105
14	α 突触核蛋白病 (α - synucleinopathies)	Cellular milieu imparts distinct pathological alpha-synuclein strains in alpha-synucleinopathies	PENG, C UNIVERSITY OF PENNSYLVANIA	NATURE 557 (7706): 558-+ MAY 24 2018 https://www.nature.com/articles/s41586-018-0104-4	104

15	综述：偏头痛的治疗	CGRP as the target of new migraine therapies - successful translation from bench to clinic	EDVINSSON, L LUND UNIVERSITY	NAT REV NEUROL 14 (6): 338-350 JUN 2018 https://www.nature.com/articles/s41582-018-0003-1	99
16	对多巴胺的释放进行可视化	Ultrafast neuronal imaging of dopamine dynamics with designed genetically encoded sensors	PATRIARCHI, T BOSTON UNIVERSITY	SCIENCE 360 (6396): 1420-+ JUN 29 2018 https://science.sciencemag.org/content/360/6396/eaat4422.full	98
17	阿尔茨海默症的公共卫生影响	2019 Alzheimers disease facts and figures	GAUGLER, J -	ALZHEIMERS & DEMENTIA 15 (3): 321-387 MAR 2019 http://psych.summon.serialssolutions.com/psych.remotexs.cn/2.0.0/link?token=1583206423265	96
18	癫痫药物治疗的预后：一项长	Treatment outcomes in patients with	CHEN, ZB	JAMA NEUROL 75 (3): 279-286	93

	达 30 年的纵向队列研究	newly diagnosed epilepsy treated with established and new antiepileptic drugs a 30-year longitudinal cohort study	CHINESE UNIV HONG KONG	MAR 2018 https://jamanetwork.com/journals/jamaneurology/article-abstract/2666189	
19	牙龈卟啉单胞菌 (porphyromonas gingivalis) 与 阿尔茨海默症	Porphyromonas gingivalis in Alzheimers disease brains: evidence for disease causation and treatment with small-molecule inhibitors	DOMINY, SS VA BOSTON HEALTHCARE SYSTEM	SCI ADV 5 (1): - JAN 2019 https://advances.sciencemag.org/content/5/1/eaau3333.full	90
20	1990-2016 年偏头痛与紧张型头痛 (tension-type headache) 的疾病负担	Global, regional, and national burden of migraine and tension-type headache, 1990-2016: a systematic analysis for the global burden of disease study 2016	STOVNER, LJ WEST VIRGINIA UNIVERSITY	LANCET NEUROL 17 (11): 954-976 NOV 2018 https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30322-3/fulltext	87

21	血脑屏障与阿尔茨海默症	Blood-brain barrier opening in Alzheimers disease using MR-guided focused ultrasound	LIPSMAN, N JOHNS HOPKINS UNIVERSITY	NAT COMMUN 9: - JUL 25 2018 https://www.nature.com/articles/s41467-018-04529-6	84
22	阿尔茨海默病相关的 β -淀粉样蛋白	Alzheimers disease-associated beta-amyloid is rapidly seeded by herpesviridae to protect against brain infection	Eimer, WA Massachusetts General Hospital	NEURON 99 (1): 56-+ JUL 11 2018 https://www.sciencedirect.com/science/article/pii/S0896627318305269?via%3Dihub	83
23	阵发性偏头痛	Evaluation of galcanezumab for the prevention of episodic migraine the evolve-1 randomized clinical trial	STAUFFER, VL ELI LILLY;UNIVERSITY SYSTEM OF MARYLAND	JAMA NEUROL 75 (9): 1080-1088 SEP 2018 https://jamanetwork.com/journals/jamaneurology/fullarticle/2681442?resultClick=3	82

24	综述：阿尔茨海默症的治疗	Tau-targeting therapies for Alzheimer disease	CONGDON, EE NEW YORK UNIVERSITY	NAT REV NEUROL 14 (7): 399-415 JUL 2018 https://www.nature.com/articles/s41582-018-0013-z	80
25	阿尔茨海默症小鼠模型	Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimers mouse model	CHOI, SH COLUMBIA UNIVERSITY	SCIENCE 361 (6406): 991-+ SEP 7 2018 http://science.sciencemag.org/content/361/6406/eaan8821.full	79
26	小胶质细胞	Spatial and temporal heterogeneity of mouse and human microglia at single-cell resolution	MASUDA, T CHARITE MEDICAL UNIVERSITY OF BERLIN	NATURE 566 (7744): 388-392 FEB 21 2019 https://www.nature.com/articles/s41586-019-0924-x	77
27	DeepLabCut: 无需标记的深度	DeepLabCut: markerless pose	MATHIS, A	NAT NEUROSCI 21 (9): 1281-+	75

	学习（动物）姿态估计与行为跟踪	estimation of user-defined body parts with deep learning	BAYLOR COLLEGE OF MEDICINE	SEP 2018 https://www.nature.com/articles/s41593-018-0209-y	
28	综述：小胶质细胞与神经退行性病变	Microglia in neurodegeneration	HICKMAN, S HARVARD MEDICAL SCHOOL	NATURE NEUROSCIENCE 21 (10): 1359-1369 OCT 2018 https://www.nature.com/articles/s41593-018-0242-x	75
29	帕金森氏病的全球负担	Global, regional, and national burden of Parkinsons disease, 1990-2016: a systematic analysis for the global burden of disease study 2016	DORSEY, ER AHVAZ JUNDISHAPUR UNIVERSITY OF MEDICAL SCIENCES (AJUMS)	LANCET NEUROL 17 (11): 939-953 NOV 2018 https://www.sciencedirect.com/science/article/pii/S1474442218302953	73
30	小胶质细胞	A combination of ontogeny and CNS environment establishes microglial	BENNETT, FC STANFORD UNIVERSITY	NEURON 98 (6): 1170-+ JUN 27 2018	71

		identity		https://www.sciencedirect.com/science/article/pii/S0896627318303866	
31	阵发性偏头痛（episodic migraine）的预防	Efficacy and safety of galcanezumab for the prevention of episodic migraine: results of the evolve-2 phase 3 randomized controlled clinical trial	SKLJAREVSKI, V UNIVERSITY OF LONDON	CEPHALALGIA 38 (8): 1442-1454 JUL 2018 https://journals.sagepub.com/doi/abs/10.1177/0333102418779543?journalCode=cepa	69
32	1990-2016 年间,阿尔茨海默症的全球、局部和国家负担	Global, regional, and national burden of Alzheimers disease and other dementias, 1990-2016: a systematic analysis for the global burden of disease study 2016	NICHOLS, E A.T. STILL UNIVERSITY OF HEALTH SCIENCES	LANCET NEUROLOGY 18 (1): 88-106 JAN 2019 http://search.proquest.com/psych.remoteotexs.cn/docview/2155045478?pq-origsite=summon	68
33	小胶质细胞与脑髓样细胞	Developmental heterogeneity of microglia and brain myeloid cells	LI, QY VIRGINIA POLYTECHNIC	NEURON 101 (2): 207-+ JAN 16 2019	67

		revealed by deep single-cell RNA sequencing	INSTITUTE & STATE UNIVERSITY	https://www.sciencedirect.com/science/article/pii/S0896627318310821	
34	缺血性卒中后的血脑屏障功能障碍及康复	Blood-brain barrier dysfunction and recovery after ischemic stroke	JIANG, XY YESHIVA UNIVERSITY	PROGRESS IN NEUROBIOLOGY 163: 144-171 SP. ISS. SI APR-MAY 2018 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5886838/	67
35	Slide-seq: 一种具有高空间分辨率的基因表达模式的测量技术	Slide-seq: a scalable technology for measuring genome-wide expression at high spatial resolution	RODRIQUES, SG BROAD INSTITUTE	SCIENCE 363 (6434): 1463-+ MAR 29 2019 https://science.sciencemag.org/content/363/6434/1463.full	66
36	一个模拟阿尔茨海默症神经退行性病变和神经炎症的 3D 培养模型	A 3D human triculture system modeling neurodegeneration and	PARK, J HARVARD UNIVERSITY	NATURE NEUROSCIENCE 21 (7): 941-+ JUL 2018 https://www.nature.com/articles/s415	65

		neuroinflammation in Alzheimers disease		93-018-0175-4	
37	线粒体自噬 (Mitophagy) 抑制阿尔茨海默症的 β 淀粉样蛋白和 tau 蛋白病变, 逆转认知功能障碍	Mitophagy inhibits amyloid-beta and tau pathology and reverses cognitive deficits in models of Alzheimers disease	FANG, EF UNIVERSITY OF OXFORD	NAT NEUROSCI 22 (3): 401-+ MAR 2019 https://www.nature.com/articles/s41593-018-0332-9	64
38	神经形态计算	Neuromorphic computing with multi-memristive synapses	BOYBAT, I SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	NATURE COMMUNICATIONS 9: - JUN 28 2018 https://www.nature.com/articles/s41467-018-04933-y	61
39	大脑皮层与功能连接 MRI	Local-global parcellation of the human cerebral cortex from intrinsic functional connectivity MRI	SCHAEFER, A YALE UNIVERSITY	CEREBRAL CORTEX 28 (9): 3095-3114 SEP 2018 https://academic.oup.com/cercor/article/28/9/3095/3978804	59

40	视交叉上核与昼夜节律	Generation of circadian rhythms in the suprachiasmatic nucleus	HASTINGS, MH MRC LABORATORY MOLECULAR BIOLOGY	NATURE REVIEWS NEUROSCIENCE 19 (8): 453-469 AUG 2018 https://www.nature.com/articles/s41583-018-0026-z	58
41	综述：小脑与认知	The cerebellum and cognition	SCHMAHMANN, JD HARVARD UNIV MEDICAL AFFILIATES	NEUROSCI LETT 688: 62-75 SP. ISS. SI JAN 1 2019 https://www.sciencedirect.com/science/article/pii/S0304394018304671	56
42	1990-2016 年间，神经系统疾病的全球、局部和国家负担	Global, regional, and national burden of neurological disorders, 1990-2016: a systematic analysis for the global burden of disease study 2016	FEIGIN, VL A.T. STILL UNIVERSITY OF HEALTH SCIENCES	LANCET NEUROLOGY 18 (5): 459-480 MAY 2019 http://search.proquest.com/psych.remotexs.cn/docview/2207083391?pq-origsite=summon	56

43	综述：阿尔茨海默症 β 淀粉样蛋白靶向治疗	A critical appraisal of amyloid-beta targeting therapies for Alzheimer disease	PANZA, F UNIVERSITY OF BARI	NAT REV NEUROL 15 (2): 73-88 FEB 2019 https://www.nature.com/articles/s41582-018-0116-6	56
44	利用 scRNAseq (单细胞 RNA 测序) 和 MERFISH (一种单分子成像技术) 对下丘脑视前区进行成像分析	Molecular, spatial, and functional single-cell profiling of the hypothalamic preoptic region	MOFFITT, JR BROAD INSTITUTE	SCIENCE 362 (6416): 792+ SP. ISS. SI NOV 16 2018 https://science.sciencemag.org/content/362/6416/eaau5324.full	55
45	抑郁的遗传学研究	Genome-wide meta-analysis of depression identifies 102 independent variants and highlights the importance of the prefrontal brain regions	HOWARD, DM VA BOSTON HEALTHCARE SYSTEM;UNIVERSITY OF QUEENSLAND	NATURE NEUROSCIENCE 22 (3): 343+ MAR 2019 https://www.nature.com/articles/s41593-018-0326-7	54

46	青少年脑认知发育 (adolescent brain cognitive development, ABCD) 研究	The conception of the ABCD study: from substance use to a broad NIH collaboration	VOLKOW, ND NATIONAL INSTITUTES OF HEALTH (NIH) - USA	DEVELOPMENTAL COGNITIVE NEUROSCIENCE 32: 4-7 AUG 2018 https://www.sciencedirect.com/science/article/pii/S1878929317300725	51
47	综述: 非侵入性手段测量肾上腺糖皮质激素	Non-invasive measurement of glucocorticoids: advances and problems	PALME, R UNIVERSITY OF VETERINARY MEDICINE VIENNA	PHYSIOLOGY & BEHAVIOR 199: 229-243 FEB 1 2019 https://www.sciencedirect.com/science/article/pii/S0031938418305730	51
48	健康老龄化的认知神经科学	Maintenance, reserve and compensation: the cognitive neuroscience of healthy ageing	CABEZA, R UNIVERSITY SYSTEM OF GEORGIA	NATURE REVIEWS NEUROSCIENCE 19 (11): 701-710 NOV 2018 https://pubmed.ncbi.nlm.nih.gov/30305711/	49

49	帕金森氏病非运动症状的治疗	Update on treatments for nonmotor symptoms of Parkinsons disease-an evidence-based medicine review	SEPPI, KEHRANI, A US DEPARTMENT OF VETERAN AFFAIRS	MOVEMENT DISORDERS 34 (2): 180-198 FEB 2019 https://pubmed.ncbi.nlm.nih.gov/30653247/	47
50	阿尔茨海默症单细胞转录组学分析	Single-cell transcriptomic analysis of Alzheimers disease	MATHYS, H BROAD INSTITUTE	NATURE 570 (7761): 332-+ JUN 20 2019 https://www.nature.com/articles/s41586-019-1195-2	45
51	精神疾病的神经计算机制	The predictive coding account of psychosis	STERZER, P YALE UNIVERSITY	BIOLOGICAL PSYCHIATRY 84 (9): 634-643 NOV 1 2018 https://www.sciencedirect.com/science/article/pii/S0006322318315324	44
52	多发性硬化症	Altered human oligodendrocyte heterogeneity in multiple sclerosis	JAKEL, S KAROLINSKA INSTITUTET	NATURE 566 (7745): 543-+ FEB 28 2019	44

				https://www.nature.com/articles/s41586-019-0903-2	
53	综述：氧化应激、葡萄糖代谢异常与阿尔茨海默症	Oxidative stress, dysfunctional glucose metabolism and Alzheimer disease	BUTTERFIELD, DA NATIONAL UNIVERSITY OF SINGAPORE	NAT REV NEUROSCI 20 (3): 148-160 MAR 2019 https://www.nature.com/articles/s41583-019-0132-6	44
54	帕金森氏病	Transneuronal propagation of pathologic alpha-synuclein from the gut to the brain models Parkinsons disease	KIM, S UNIVERSITY OF ALABAMA SYSTEM	https://pubmed.ncbi.nlm.nih.gov/31255487/	43
55	注意缺陷多动障碍的遗传学研究	Genetics of attention deficit hyperactivity disorder	FARAONE, SV KAROLINSKA INSTITUTET	MOL PSYCHIATR 24 (4): 562-575 APR 2019 https://www.nature.com/articles/s41380-018-0070-0	42

56	睡眠-觉醒节律与阿尔茨海默症	The sleep-wake cycle regulates brain interstitial fluid tau in mice and CSF tau in humans	HOLTH, JK WASHINGTON UNIVERSITY (WUSTL)	SCIENCE 363 (6429): 880-883 FEB 22 2019 https://pubmed.ncbi.nlm.nih.gov/30679382/	42
57	综述: 边缘为主年龄相关 TDP-43 脑病 (limbic-predominant age-related TDP-43 encephalopathy, LATE)	Limbic-predominant age-related TDP-43 encephalopathy (LATE): consensus working group report	NELSON, PT UPPSALA UNIVERSITY	BRAIN 142: 1503-1527 PART 6 JUN 2019 https://www.repository.cam.ac.uk/bitstream/handle/1810/290624/awz099.pdf?sequence=4&isAllowed=y	41
58	中风的全球负担	Global, regional, and national burden of stroke, 1990-2016: a systematic analysis for the global burden of disease study 2016	JOHNSON, CO YALE UNIVERSITY	LANCET NEUROL 18 (5): 439-458 MAY 2019 https://www.sciencedirect.com/science/article/pii/S1474442219300341	37

59	综述：细胞程序性坏死 (necroptosis)、神经炎症与神 经退行性病变	Necroptosis and RIPK1-mediated neuroinflammation in CNS diseases	YUAN, JY HARVARD UNIVERSITY	NAT REV NEUROSCI 20 (1): 19- 33 JAN 2019 https://www.nature.com/articles/s41583-018-0093-1	36
60	小鼠脑内巨噬细胞的单细胞分 析	A Single-cell atlas of mouse brain macrophages reveals unique transcriptional identities shaped by ontogeny and tissue environment	VAN HOVE, H VRIJE UNIVERSITEIT BRUSSEL	NATURE NEUROSCIENCE 22 (6): 1021-1035 JUN 2019 https://www.nature.com/articles/s41593-019-0393-4	36
61	精神类药物与微生物组构成和 胃肠功能	Differential effects of psychotropic drugs on microbiome composition and gastrointestinal function	CUSSOTTO, S UNIVERSITY COLLEGE CORK	PSYCHOPHARMACOLOGY 236 (5): 1671-1685 SP. ISS. SI MAY 2019 https://link.springer.com/article/10.1007/s00213-018-5006-5	36

62	多发性硬化症	Multiple sclerosis - a review	DOBSON, R UNIVERSITY OF LONDON	EUROPEAN JOURNAL OF NEUROLOGY 26 (1): 27-40 JAN 2019 https://pubmed.ncbi.nlm.nih.gov/30300457/	35
63	突触修剪与精神分裂症	Increased synapse elimination by microglia in schizophrenia patient-derived models of synaptic pruning	SELLGREN, CM HARVARD MEDICAL SCHOOL	NATURE NEUROSCIENCE 22 (3): 374-+ MAR 2019 https://www.nature.com/articles/s41593-018-0334-7	34
64	1990-2016 年间，多发性硬化症的全球、区域、国家负担	Global, regional, and national burden of multiple sclerosis 1990-2016: a systematic analysis for the global burden of disease study 2016	WALLIN, MT AGA KHAN UNIVERSITY	LANCET NEUROLOGY 18 (3): 269-285 MAR 2019 https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30443-5/fulltext	34

65	脑地形图能否预测人类的认知、人格与情感	Spatial topography of individual-specific cortical networks predicts human cognition, personality, and emotion	KONG, R YALE UNIVERSITY	CEREBRAL CORTEX 29 (6): 2533-2551 JUN 2019 https://pubmed.ncbi.nlm.nih.gov/29878084/	33
66	帕金森氏病	Lewy pathology in Parkinsons disease consists of crowded organelles and lipid membranes	SHAHMORADIAN, SH ERASMUS UNIVERSITY MEDICAL CENTER	NATURE NEUROSCIENCE 22 (7): 1099-+ JUL 2019 http://www.nature.com/psych.remotes.cn/articles/s41593-019-0423-2	30
67	药物成瘾的大鼠模型	Volitional social interaction prevents drug addiction in rat models	VENNIRO, M US DEPT HLTH HUMAN SERVICES	NATURE NEUROSCIENCE 21 (11): 1520-+ NOV 2018 https://www.nature.com/articles/s41593-018-0246-6	29

68	卒中在中国的流行病学、预防与疾病管理	Stroke in china: advances and challenges in epidemiology, prevention, and management	WU, SM AIR FORCE MILITARY MEDICAL UNIVERSITY	LANCET NEUROLOGY 18 (4): 394-405 APR 2019 https://www.sciencedirect.com/science/article/pii/S1474442218305003	28
69	神经胶质瘤 (gliomas)	Electrical and synaptic integration of glioma into neural circuits	VENKATESH, HS UNIVERSITY OF MICHIGAN SYSTEM	NATURE 573 (7775): 539-+ SEP 26 2019 https://www.nature.com/articles/s41586-019-1563-y	23
70	阿片使用障碍的治疗	Effects of medication-assisted treatment on mortality among opioids users: a systematic review and meta-analysis	MA, J PEKING UNIVERSITY	MOLECULAR PSYCHIATRY 24 (12): 1868-1883 DEC 2019 https://www.nature.com/articles/s41380-018-0094-5	21
71	线虫神经联结图谱	Whole-animal connectomes of both caenorhabditis elegans sexes	COOK, SJ COLUMBIA UNIVERSITY	NATURE 571 (7763): 63-+ JUL 4 2019	20

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72	环状 RNA (circular RNAs, circRNAs) 与细胞功能	The interaction of circRNAs and RNA binding proteins: an important part of circrna maintenance and function	ZANG, JK JINAN UNIVERSITY	JOURNAL OF NEUROSCIENCE RESEARCH 98 (1): 87-97 JAN 2020 https://pubmed.ncbi.nlm.nih.gov/30575990/	19
73	阿尔茨海默症的血管因素	Amyloid beta oligomers constrict human capillaries in Alzheimers disease via signaling to pericytes	NORTLEY, R CHARITE MEDICAL UNIVERSITY OF BERLIN	SCIENCE 365 (6450): 250-+ SP. ISS. SI JUL 19 2019 https://science.sciencemag.org/content/365/6450/eaav9518.full	19
74	使用单细胞 RNA 测序研究视网膜神经发育	Single-cell RNA-seq analysis of retinal development identifies NFI	CLARK, BS JOHNS HOPKINS MEDICINE	NEURON 102 (6): 1111-+ JUN 19 2019 https://pubmed.ncbi.nlm.nih.gov/311	19

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75	多发性硬化症	Neuronal vulnerability and multilineage diversity in multiple sclerosis	SCHIRMER, L IMPERIAL COLLEGE LONDON	NATURE 573 (7772): 75-+ SEP 5 2019 https://www.nature.com/articles/s41586-019-1404-z	18
76	帕金森氏病	Intestinal infection triggers Parkinsons disease-like symptoms in pink1(-/-) mice	MATHEOUD, D MCGILL UNIVERSITY	NATURE 571 (7766): 565-+ JUL 25 2019 https://www.nature.com/articles/s41586-019-1405-y	17
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78	雷公藤内酯醇 (triptolide, T10) 对冻存大鼠坐骨神经的作用	The effects of triptolide on the cellular activity of cryopreserved rat sciatic nerves and nerve regeneration after allotransplantation	WANG, Y CHONGQING MEDICAL UNIVERSITY	INTERNATIONAL JOURNAL OF NEUROSCIENCE 130 (1): 83-96 JAN 2 2020 https://www.tandfonline.com/doi/abs/10.1080/00207454.2019.1664512	14
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80	杜氏肌营养不良 (duchenne muscular dystrophy) 的治疗	Therapeutic developments for duchenne muscular dystrophy	VERHAART, IEC LEIDEN UNIVERSITY	NATURE REVIEWS NEUROLOGY 15 (7): 373-386 JUL 2019 https://www.nature.com/articles/s41582-019-0203-3	13

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82	小胶质细胞	Development of a chimeric model to study and manipulate human microglia in vivo	HASSELMANN, J MCGILL UNIVERSITY	NEURON 103 (6): 1016-+ SEP 25 2019 https://pubmed.ncbi.nlm.nih.gov/31375314/	13
83	NLRP3 炎症小体与阿尔茨海默 症	NLRP3 inflammasome activation drives tau pathology	ISING, C UNIVERSITY OF TEXAS SYSTEM	NATURE 575 (7784): 669-+ NOV 28 2019 https://www.nature.com/articles/s41586-019-1769-z	12

84	神经毒性蛋白表达与神经退行性病变	Fragmented mitochondria released from microglia trigger a1 astrocytic response and propagate inflammatory neurodegeneration	JOSHI, AU NEW YORK UNIVERSITY	NATURE NEUROSCIENCE 22 (10): 1635-+ OCT 2019 https://www.nature.com/articles/s41593-019-0486-0	10
85	感知觉与皮层神经元架构	Cortical layer-specific critical dynamics triggering perception	MARSHEL, JH UNIVERSITY OF TOKYO	SCIENCE 365 (6453): 558-+ AUG 9 2019 https://science.sciencemag.org/content/365/6453/eaaw5202.full	10
86	急性缺血性卒中早期管理指导方针	Guidelines for the early management of patients with acute ischemic stroke: 2019 update to the 2018 guidelines for the early management of acute ischemic stroke: a guideline for healthcare professionals from the American	POWERS, WJ CASE WESTERN RESERVE UNIVERSITY	STROKE 50 (12): E344-E418 DEC 2019 https://www.ahajournals.org/doi/10.1161/STR.0000000000000211	9

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88	载脂蛋白 E 与阿尔茨海默症	Apolipoprotein e and Alzheimer disease: pathobiology and targeting strategies	YAMAZAKI, Y MAYO CLINIC	NATURE REVIEWS NEUROLOGY 15 (9): 501-518 SEP 2019 https://pubmed.ncbi.nlm.nih.gov/31367008/	8
89	Heinrich Pette: 纳粹时代的德国神经病学家和精神病学家	Heinrich Pette (1887-1964) and the difficult assessment of his role	MARTIN, M	NERVENARZT 91 (SUPPL 1): 35-42 SUPPL. 1 SP. ISS. SI FEB 2020 https://link.springer.com/article/10.1	8

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90	帕金森氏病	Identification of novel risk loci, causal insights, and heritable risk for Parkinsons disease: a meta-analysis of genome-wide association studies	NALLS, MA VAN ANDEL INSTITUTE	LANCET NEUROLOGY 18 (12): 1091-1102 DEC 2019 https://pubmed.ncbi.nlm.nih.gov/31701892/	8
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92	大脑默认模式网络	The brains default network: updated anatomy, physiology and evolving insights	BUCKNER, RL MASSACHUSETTS GENERAL HOSPITAL	NATURE REVIEWS NEUROSCIENCE 20 (10): 593-608 OCT 2019	7

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94	小胶质细胞	Noradrenergic signaling in the wakeful state inhibits microglial surveillance and synaptic plasticity in the mouse visual cortex	STOWELL, RD MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)	NATURE NEUROSCIENCE 22 (11): 1782-+ NOV 2019 https://www.nature.com/articles/s41593-019-0514-0	6
95	肌萎缩性脊髓侧索硬化症与额颞叶痴呆	CRISPR-cas9 screens identify the RNA helicase DDX3X as a repressor of C9ORF72	CHENG, WW JOHNS HOPKINS UNIVERSITY	NEURON 104 (5): 885-+ DEC 4 2019 https://pubmed.ncbi.nlm.nih.gov/31587919/	6

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97	小胶质细胞与神经网络活动	Neuronal network activity controls microglial process surveillance in awake mice via norepinephrine signaling	LIU, YU AIR FORCE MILITARY MEDICAL UNIVERSITY	NATURE NEUROSCIENCE 22 (11): 1771-+ NOV 2019 https://www.nature.com/articles/s41593-019-0511-3	6
98	少突胶质细胞发生 (oligodendrogenesis) 与记忆巩固	Disruption of oligodendrogenesis impairs memory consolidation in adult mice	STEADMAN, PE CANADIAN INSTITUTE FOR ADVANCED RESEARCH (CIFAR)	NEURON 105 (1): 150-+ JAN 8 2020 https://www.sciencedirect.com/science/article/pii/S0896627319308864	6

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100	阿片成瘾的神经生物学	Neurobiology of opioid addiction: opponent process, hyperkatifeia, and negative reinforcement	KOOB, GF NATIONAL INSTITUTES OF HEALTH (NIH) - USA	BIOLOGICAL PSYCHIATRY 87 (1): 44-53 SP. ISS. SI JAN 1 2020 https://www.sciencedirect.com/science/article/pii/S0006322319314350	5
101	小胶质细胞与阿尔茨海默症	Stem-cell-derived human microglia transplanted in mouse brain to study human disease	MANCUSO, R UNIVERSITY OF LONDON	NATURE NEUROSCIENCE 22 (12): 2111-+ DEC 2019 https://www.nature.com/articles/s41593-019-0525-x	5

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