

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 11 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 2018 年 6 月至 2020 年 6 月发表的文章中, 在 2020 年 7 月和 8 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 11 月 24 日。

本期发布神经科学与行为领域热点文章 112 篇, 其中首次入榜文章 37 篇。单篇最高被引 431 次, 最低被引 9 次。被引 431 次的文章发表在 JAMA Neurology 上, 标题为“Neurologic Manifestations of Hospitalized Patients With Coronavirus Disease 2019 in Wuhan, China”, 第一作者为华中科技大学的 Ling Mao, 研究介绍了新冠肺炎患者的神经系统症状。首次入榜的 37 篇中单篇最高被引 110 次的文章标题为“Nervous system involvement after infection with COVID-19 and other coronaviruses”, 发表在 Brain Behavior and Immunity 上, 第一作者是南京医科大学第一附属医院的 Yeshun Wu, 文章报告了新冠病毒对神经系统的影响。

本期其他部分首次入榜文章有:

- 38: 阿尔茨海默症的血液生物标志物;
- 49: 新冠肺炎疫情与医务人员和一般公众的替代性创伤 (vicarious traumatization) 水平;
- 68: 有关阿尔茨海默症的神经病理学研究的综述;
- 76: 新冠肺炎与急性卒中;
- 77: 新冠肺炎相关的神经精神疾病;
- 81: 腹侧被盖区 (ventral tegmental area, VTA) 多巴胺神经元编码感觉、运动和认知等多个行为变量;
- 87: 小胶质细胞-神经元之间的通信机制;
- 88: 应激与神经退行性病变;
- 92: 新冠肺炎与嗅觉功能下降;
- 98: 小胶质细胞与老龄化大脑;
- 99: 冠状病毒感染与中枢神经系统症状;
- 102: 小胶质细胞与长期记忆遗忘;
- 103: 新冠肺炎对头痛的影响;
- 108: 嗅觉系统神经发生。

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）。

中科院心理所信息中心

附表：ESI 2020 年 11 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	新冠肺炎患者的神经系统症状	Neurologic manifestations of hospitalized patients with coronavirus disease 2019 in Wuhan, China	MAO, L Huazhong University of Science and Technology	JAMA NEUROLOGY 77 (6): 683-690 JUN 2020 https://pubmed.ncbi.nlm.nih.gov/32275288/	431
2	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	346
3	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	288

				.com.psych.remotexs.cn/2.0.0/link?tid=1583206423265	
4	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	203
5	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	194
6	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	NICHOLS, E A.T. STILL UNIVERSITY OF HEALTH SCIENCES	LANCET NEUROLOGY 18 (1): 88-106 JAN 2019 http://search.proquest.com/psych.rem	174

		systematic analysis for the global burden of disease study 2016		otexs.cn/docview/2155045478?pq-origsite=summon	
7	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	172
8	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	171
9	卒中的全球负担	Global, regional, and national burden of stroke, 1990-2016: a	JOHNSON, CO YALE UNIVERSITY	LANCET NEUROL 18 (5): 439-458 MAY 2019	166

		systematic analysis for the global burden of disease study 2016		https://www.sciencedirect.com/science/article/pii/S1474442219300341	
10	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	163
11	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	150
12	急性缺血性卒中早期管理指导方针	Guidelines for the early management of patients with acute	POWERS, WJ CASE WESTERN RESERVE	STROKE 50 (12): E344-E418 DEC 2019	144

		<p>ischemic stroke: 2019 update to the 2018 guidelines for the early management of acute ischemic stroke: a guideline for healthcare professionals from the American Heart Association/American Stroke Association</p>	<p>UNIVERSITY</p>	<p>https://www.ahajournals.org/doi/10.1161/STR.0000000000000211</p>	
13	<p>综述：小胶质细胞与神经退行性病变</p>	<p>Microglia in neurodegeneration</p>	<p>HICKMAN, S HARVARD MEDICAL SCHOOL</p>	<p>NATURE NEUROSCIENCE 21 (10): 1359-1369 OCT 2018 https://www.nature.com/articles/s41593-018-0242-x</p>	143
14	<p>DeepLabCut: 无需标记的深度学习（动物）姿态估计与行为跟踪</p>	<p>DeepLabCut: markerless pose estimation of user-defined body parts with deep learning</p>	<p>MATHIS, A BAYLOR COLLEGE OF MEDICINE</p>	<p>NAT NEUROSCI 21 (9): 1281-+ SEP 2018 https://www.nature.com/articles/s41593-018-0209-y</p>	139

15	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	138
16	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	134
17	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	128

18	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	125
19	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	118
20	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	116
21	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	113

		revealed by deep single-cell RNA sequencing	INSTITUTE & STATE UNIVERSITY	https://www.sciencedirect.com/science/article/pii/S0896627318310821	
22	综述: 胶质-淋巴通路与神经系统疾病	The glymphatic pathway in neurological disorders	RASMUSSEN, MK UNIVERSITY OF COPENHAGEN	LANCET NEUROL 17 (11): 1016-1024 NOV 2018 https://www.sciencedirect.com/science/article/pii/S1474442218303181	110
23	神经技术辅助脊髓损伤患者重获行走功能	Targeted neurotechnology restores walking in humans with spinal cord injury	WAGNER, FB CENTRE HOSPITALIER UNIVERSITAIRE VAUDOIS (CHUV);UNIVERSITY OF OXFORD	NATURE 563 (7729): 65-+ NOV 1 2018 https://www.nature.com/articles/s41586-018-0649-2	110
24	新冠病毒对神经系统的影响	Nervous system involvement after infection with COVID-19 and other coronaviruses	WU, YS The First Affiliated Hospital of Nanjing Medical University	BRAIN BEHAVIOR AND IMMUNITY 87: 18-22 JUL 2020 https://pubmed.ncbi.nlm.nih.gov/32240762/	110

25	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	107
26	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	103
27	美国多发性硬化症的患病率	The prevalence of MS in the united states a population-based estimate using health claims data	WALLIN, MT BROWN UNIVERSITY	NEUROLOGY 92 (10): E1029- E1040 MAR 5 2019 https://n.neurology.org/content/92/10/e1029	102

28	蛋白质结构和功能障碍与神经退行性病变	Protein misfolding, aggregation, and conformational strains in neurodegenerative diseases	SOTO, C UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER HOUSTON	NATURE NEUROSCIENCE 21 (10): 1332-1340 OCT 2018 https://www.nature.com/articles/s41593-018-0235-9	102
29	综述: 炎症小体与脑功能和神经退行性病变	Inflammasome signalling in brain function and neurodegenerative disease	HENEKA, MT UNIVERSITY OF MASSACHUSETTS WORCESTER	NAT REV NEUROSCI 19 (10): 610-621 OCT 2018 https://www.nature.com/articles/s41583-018-0055-7	101
30	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	NEURON 103 (4): 627-+ AUG 21 2019 https://pubmed.ncbi.nlm.nih.gov/31255487/	101

31	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	93
32	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/	90
33	CBTRUS 统计报告：2012-2016 年间美国确诊原发性脑及其他中枢神经系统肿瘤	CBTRUS statistical report: primary brain and other central nervous system tumors diagnosed in the united states in 2012-2016	OSTROM, QT BAYLOR COLLEGE OF MEDICINE	NEURO-ONCOLOGY 21: V1- V100 SUPPL. 5 OCT 2019 https://pubmed.ncbi.nlm.nih.gov/31675094/	90

34	1990-2016 年间创伤性脑损伤和脊髓损伤的全球、区域、国家负担	Global, regional, and national burden of traumatic brain injury and spinal cord injury, 1990-2016: a systematic analysis for the global burden of disease study 2016	JAMES, SL ZAHEDAN UNIVERSITY OF MEDICAL SCIENCES	LANCET NEUROLOGY 18 (1): 56-87 JAN 2019 https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30415-0/fulltext	89
35	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	85
36	使用单核 RNA 测序分析颞中回细胞类型	Conserved cell types with divergent features in human versus mouse cortex	HODGE, RD ALLEN INSTITUTE FOR BRAIN SCIENCE	NATURE 573 (7772): 61-+ SEP 5 2019 https://www.nature.com/articles/s41586-019-1506-7	83

37	多发性硬化症	Altered human oligodendrocyte heterogeneity in multiple sclerosis	JAKEL, S KAROLINSKA INSTITUTET	NATURE 566 (7745): 543-+ FEB 28 2019 https://www.nature.com/articles/s41586-019-0903-2	81
38	阿尔茨海默症的血液生物标志物	Blood-based biomarkers for Alzheimer disease: mapping the road to the clinic	HAMPEL, H	NATURE REVIEWS NEUROLOGY 14 (11): 639-652 NOV 2018 https://pubmed.ncbi.nlm.nih.gov/30297701/	80
39	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	77

40	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/	77
41	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	75
42	综述: 小胶质细胞与疼痛	Microglia in pain: detrimental and protective roles in pathogenesis and resolution of pain	CHEN, G NANTONG UNIVERSITY	NEURON 100 (6): 1292-1311 DEC 19 2018 https://pubmed.ncbi.nlm.nih.gov/30571942/	73

43	衰老与神经退行性疾病	Ageing as a risk factor for neurodegenerative disease	HOU, YJ NATIONAL INSTITUTES OF HEALTH (NIH) - USA	NATURE REVIEWS NEUROLOGY 15 (10): 565-581 OCT 2019 https://www.nature.com/articles/s41582-019-0244-7	72
44	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	72
45	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	68

46	人脑小胶质细胞	Human microglia regional heterogeneity and phenotypes determined by multiplexed single-cell mass cytometry	BOTTCHER, C UTRECHT UNIVERSITY MEDICAL CENTER	NATURE NEUROSCIENCE 22 (1): 78-+ JAN 2019 https://www.nature.com/articles/s41593-018-0290-2	68
47	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/	67
48	综述: 小胶质细胞	Cell-to-cell communication by extracellular vesicles: focus on microglia	PAOLICELLI, RC UNIVERSITY OF ZURICH	NEUROSCIENCE 405: 148-157 SP. ISS. SI MAY 1 2019 https://www.sciencedirect.com/science/article/pii/S0306452218302549	66

49	新冠肺炎疫情与医务人员和一般公众的替代性创伤（vicarious traumatization）水平	Vicarious traumatization in the general public, members, and non-members of medical teams aiding in COVID-19 control	LI, ZY CHIBA UNIVERSITY	BRAIN BEHAVIOR AND IMMUNITY 88: 916-919 AUG 2020 https://pubmed.ncbi.nlm.nih.gov/32169498/	65
50	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	62
51	新冠肺炎疫情与一般群体的心理健康水平	A longitudinal study on the mental health of general population during the covid-19 epidemic in China	WANG, CY HANOI MEDICAL UNIVERSITY	BRAIN BEHAVIOR AND IMMUNITY 87: 40-48 JUL 2020 https://www.sciencedirect.com/science/article/pii/S0889159120305110	60

52	阿尔茨海默症	Senolytic therapy alleviates a beta-associated oligodendrocyte progenitor cell senescence and cognitive deficits in an Alzheimers disease model	ZHANG, PS JOHNS HOPKINS UNIVERSITY	NATURE NEUROSCIENCE 22 (5): 719+ MAY 2019 http://www.nature.com/psych.remote.xs.cn/articles/s41593-019-0372-9	59
53	大麻素调控瞬时受体电位 (transient receptor potential) 通道	Cannabinoid ligands targeting TRP channels	MULLER, C UNIVERSITY OF NORTH CAROLINA	FRONTIERS IN MOLECULAR NEUROSCIENCE 11: - JAN 15 2019 https://pubmed.ncbi.nlm.nih.gov/30697147/	59
54	格林-巴利综合征 (guillain barre syndrome) 与新冠肺炎	Guillain barre syndrome associated with covid-19 infection: a case report	SEDAGHAT, Z MAZANDARAN UNIVERSITY MEDICAL SCIENCES	JOURNAL OF CLINICAL NEUROSCIENCE 76: 233-235 JUN 2020 https://pubmed.ncbi.nlm.nih.gov/32312628/	57

55	呼吸道病毒感染与神经系统症状	Neurologic alterations due to respiratory virus infections	BOHMWALD, K PONTIFICIA UNIVERSIDAD CATOLICA DE CHILE	FRONTIERS IN CELLULAR NEUROSCIENCE 12: - OCT 26 2018 https://www.frontiersin.org/articles/10.3389/fncel.2018.00386/full	55
56	新冠肺炎患者的中枢神经系统症状	Central nervous system manifestations of covid-19: a systematic review	ASADI-POOYA, AA JEFFERSON UNIVERSITY	JOURNAL OF THE NEUROLOGICAL SCIENCES 413: - JUN 15 2020 https://www.sciencedirect.com/science/article/pii/S0022510X20301684	55
57	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	54

58	脑脊液中的神经丝轻链 (neurofilament light, NFL) 与神经退行性疾病	Diagnostic value of cerebrospinal fluid neurofilament light protein in neurology: a systematic review and meta-analysis	BRIDEL, C AARHUS UNIVERSITY	JAMA NEUROLOGY 76 (9): 1035-1048 SEP 2019 https://pubmed.ncbi.nlm.nih.gov/31206160/	53
59	光遗传中的热参数	Thermal constraints on in vivo optogenetic manipulations	OWEN, SF ;UNIVERSITY OF CALIFORNIA SYSTEM	NATURE NEUROSCIENCE 22 (7): 1061-+ JUL 2019 http://www.nature.com/psych.remotes.cn/articles/s41593-019-0422-3	53
60	血浆神经丝轻链 (neurofilament light, NFL) 可以用作跟踪阿尔茨海默症患者神经退行性变的非侵入性生物标记	Association between longitudinal plasma neurofilament light and neurodegeneration in patients with Alzheimer disease	MATTSSON, N LUND UNIVERSITY	JAMA NEUROLOGY 76 (7): 791-799 JUL 2019 https://jamanetwork.com/journals/jamaneurology/fullarticle/2731440	52

61	神经炎性与缺血性卒中	Neuroinflammation: friend and foe for ischemic stroke	JAYARAJ, RL UNITED ARAB EMIRATES UNIVERSITY	JOURNAL OF NEUROINFLAMMATION 16: - JUL 10 2019 https://pubmed.ncbi.nlm.nih.gov/31291966/	52
62	小胶质细胞与星形胶质细胞	Microglia-astrocyte crosstalk: an intimate molecular conversation	JHA, MK JOHNS HOPKINS UNIVERSITY	NEUROSCIENTIST 25 (3): 227- 240 JUN 2019 https://pubmed.ncbi.nlm.nih.gov/29931997/	52
63	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/	49

64	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	49
65	β 淀粉样蛋白、tau 蛋白与阿尔茨海默症临床前期患者认知功能下降	Association of amyloid and tau with cognition in preclinical Alzheimer disease: a longitudinal study	HANSEEUW, BJ UNIVERSITY OF MELBOURNE	JAMA NEUROLOGY 76 (8): 915-924 AUG 2019 https://jamanetwork.com/journals/jamaneurology/fullarticle/2735107	49
66	动机行为与学习行为的不同多巴胺调控方式	Dissociable dopamine dynamics for learning and motivation	MOHEBI, A BROWN UNIVERSITY	NATURE 570 (7759): 65-+ JUN 6 2019 http://www.nature.com.psych.remotes.cn/articles/s41586-019-1235-y	47

67	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 https://pubmed.ncbi.nlm.nih.gov/31492945/	39
68	综述：阿尔茨海默症的神经病理学研究	The neuropathological diagnosis of Alzheimers disease	DETURE, MA MAYO CLINIC	MOLECULAR NEURODEGENERATION 14 (1): - AUG 2 2019 https://pubmed.ncbi.nlm.nih.gov/31375134/	38
69	新冠肺炎疫情期间，医护人员的身心健康状况	A multinational, multicentre study on the psychological outcomes and associated physical symptoms amongst healthcare workers during COVID-19 outbreak	CHEW, NWS ATHENS MEDICAL SCHOOL	BRAIN BEHAVIOR AND IMMUNITY 88: 559-565 AUG 2020 https://pubmed.ncbi.nlm.nih.gov/32330593/	38

70	新冠肺炎疫情期间，武汉医务工作者的心理健康状况	Impact on mental health and perceptions of psychological care among medical and nursing staff in Wuhan during the 2019 novel coronavirus disease outbreak: a cross-sectional study	KANG, LJ HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY	BRAIN BEHAVIOR AND IMMUNITY 87: 11-17 JUL 2020 https://pubmed.ncbi.nlm.nih.gov/32240764/	37
71	睡眠与长期记忆形成	Mechanisms of systems memory consolidation during sleep	KLINZING, JG EBERHARD KARLS UNIVERSITY HOSPITAL	NATURE NEUROSCIENCE 22 (10): 1598-1610 OCT 2019 https://pubmed.ncbi.nlm.nih.gov/31451802/	37
72	嗅觉及味觉障碍（smell and taste disorder, STDs）与新冠肺炎	Acute-onset smell and taste disorders in the context of covid-19: a pilot multicentre polymerase	BELTRAN-CORBELLINI, A HOSPITAL UNIVERSITARIO RAMON Y CAJAL	EUROPEAN JOURNAL OF NEUROLOGY : - MAY 16 2020 https://onlinelibrary.wiley.com/doi/full/10.1111/ene.14273	37

		chain reaction based case-control study			
73	神经活动提示，小鼠在做决策时似乎也会做些小动作。	Single-trial neural dynamics are dominated by richly varied movements	MUSALL, S UNIVERSITY OF CHICAGO	NATURE NEUROSCIENCE 22 (10): 1677-+ OCT 2019 https://www.nature.com/articles/s41593-019-0502-4	36
74	MRtrix3: 用于医学影像处理、分析和可视化的开源、跨平台软件包	Mrtrix3: a fast, flexible and open software framework for medical image processing and visualisation	TOURNIER, JD UNIVERSITY OF MELBOURNE	NEUROIMAGE 202: - NOV 15 2019 https://www.sciencedirect.com/science/article/pii/S1053811919307281	36
75	卒中诊治流程（code stroke）与新冠肺炎	Protected code stroke hyperacute stroke management during the coronavirus disease 2019 (COVID-19) pandemic	KHOSRAVANI, H MCMaster UNIVERSITY	STROKE 51 (6): 1891-1895 JUN 2020 https://pubmed.ncbi.nlm.nih.gov/32233980/	35

76	新冠肺炎与急性卒中	COVID-19 presenting as stroke	AVULA, A MAIMONIDES MEDICAL CENTER	BRAIN BEHAVIOR AND IMMUNITY 87: 115-119 JUL 2020 https://pubmed.ncbi.nlm.nih.gov/32360439/	35
77	新冠肺炎相关的神经精神疾病	Are we facing a crashing wave of neuropsychiatric sequelae of COVID-19? neuropsychiatric symptoms and potential immunologic mechanisms	TROYER, EA UNIVERSITY OF CALIFORNIA SAN DIEGO	BRAIN BEHAVIOR AND IMMUNITY 87: 34-39 JUL 2020 https://pubmed.ncbi.nlm.nih.gov/32298803/	34
78	多发性硬化症的药物治疗	Infection risks among patients with multiple sclerosis treated with fingolimod, natalizumab, rituximab, and injectable therapies	LUNA, G UPPSALA UNIVERSITY	JAMA NEUROLOGY 77 (2): 184-191 FEB 2020 https://pubmed.ncbi.nlm.nih.gov/31589278/	31

79	睡眠障碍与新冠肺炎疫情	Dealing with sleep problems during home confinement due to the COVID-19 outbreak: practical recommendations from a task force of the European CBT-I academy	ALTENA, E UNIVERSITY OF OXFORD	JOURNAL OF SLEEP RESEARCH : - MAY 4 2020 https://pubmed.ncbi.nlm.nih.gov/32246787/	30
80	美国阿尔茨海默症的疾病负担	2020 Alzheimers disease facts and figures	[ANONYMOUS]	ALZHEIMERS & DEMENTIA 16 (3): 391-460 MAR 2020 https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1002/alz.12068	29
81	腹侧被盖区 (ventral tegmental area, VTA) 多巴胺神经元编码感觉、运动和认知等多个行为变量	Specialized coding of sensory, motor and cognitive variables in VTA dopamine neurons	ENGELHARD, B PRINCETON UNIVERSITY	NATURE 570 (7762): 509-+ JUN 27 2019 https://www.nature.com/articles/s41586-019-1261-	29

				9.epdf?no_publisher_access=1&r3_r eferer=nature	
82	有氧运动干预帕金森氏病的效 果	Effectiveness of home-based and remotely supervised aerobic exercise in parkinsons disease: a double-blind, randomised controlled trial	VAN DER KOLK, NM UNIVERSITY OF AMSTERDAM	LANCET NEUROLOGY 18 (11): 998-1008 NOV 2019 https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(19)30285-6/fulltext	27
83	新冠肺炎与癫痫发作	New onset acute symptomatic seizure and risk factors in coronavirus disease 2019: a retrospective multicenter study	LU, L WUHAN UNIVERSITY	EPILEPSIA 61 (6): E49-E53 JUN 2020 https://pubmed.ncbi.nlm.nih.gov/32304092/	27
84	帕金森氏病的遗传架构	The genetic architecture of Parkinsons disease	BLAUWENDRAAT, C NIH NATIONAL INSTITUTE ON AGING (NIA)	LANCET NEUROLOGY 19 (2): 170-178 FEB 2020 https://www.thelancet.com/journals/l	26

				aneur/article/PIIS1474-4422(19)30287-X/fulltext	
85	利妥昔单抗 (rituximab) 治疗 视神经脊髓炎谱系障碍 (neuromyelitis optica spectrum disorders, NMOSD)	Efficacy of different rituximab therapeutic strategies in patients with neuromyelitis optica spectrum disorders	NOVI, G UNIVERSITY OF TURIN	MULTIPLE SCLEROSIS AND RELATED DISORDERS 36: - NOV 2019 https://pubmed.ncbi.nlm.nih.gov/31610404/	25
86	中国痴呆症的流行病学、临床 管理与研究进展	Dementia in China: epidemiology, clinical management, and research advances	JIA, LF ARMY MEDICAL UNIVERSITY	LANCET NEUROLOGY 19 (1): 81-92 JAN 2020 https://www.sciencedirect.com/science/article/pii/S147444221930290X	24
87	小胶质细胞-神经元之间的通信 机制	Microglia monitor and protect neuronal function through	CSEREP, C COLORADO STATE UNIVERSITY	SCIENCE 367 (6477): 528-+ JAN 31 2020 https://science.sciencemag.org/cont	23

		specialized somatic purinergic junctions		nt/367/6477/528.full	
88	应激与神经退行性病变	Stress granules and neurodegeneration	WOLOZIN, B BOSTON UNIVERSITY	NATURE REVIEWS NEUROSCIENCE 20 (11): 649-666 NOV 2019 https://pubmed.ncbi.nlm.nih.gov/31582840/	22
89	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	21
90	干细胞疗法治疗新冠肺炎	Expanded umbilical cord mesenchymal stem cells (UC-MSCS) as a therapeutic strategy in	ATLURI, S HARVARD MEDICAL SCHOOL	PAIN PHYSICIAN 23 (2): E71-E83 MAR-APR 2020 https://www.painphysicianjournal.co	21

		managing critically ill COVID-19 patients: the case for compassionate use		m/current/pdf?article=NzAyNA%3D%3D&journal=125	
91	新冠肺炎疫情期间，医务工作者抑郁、焦虑、失眠等的患病率	Prevalence of depression, anxiety, and insomnia among healthcare workers during the covid-19 pandemic: a systematic review and meta-analysis	PAPPA, S NA-EVAGGELISMOS HOSPITAL	BRAIN BEHAVIOR AND IMMUNITY 88: 901-907 AUG 2020 https://pubmed.ncbi.nlm.nih.gov/32437915/	21
92	新冠肺炎与嗅觉功能下降	Expression of the SARS-CoV-2 entry proteins, ACE2 and TMPRSS2, in cells of the olfactory epithelium: identification of cell types and trends with age	BILINSKA, K NEVADA SYSTEM OF HIGHER EDUCATION (NSHE)	ACS CHEMICAL NEUROSCIENCE 11 (11): 1555-1562 JUN 3 2020 https://pubmed.ncbi.nlm.nih.gov/32379417/	21

93	低密度脂蛋白与颅内出血	Low-density lipoprotein cholesterol and risk of intracerebral hemorrhage a prospective study	MA, CR HARVARD MEDICAL SCHOOL	NEUROLOGY 93 (5): E445-E457 JUL 30 2019 https://pubmed.ncbi.nlm.nih.gov/31266905/	21
94	重复经颅磁刺激 (repetitive transcranial magnetic stimulation, rTMS) 的循证治疗指导方针	Evidence-based guidelines on the therapeutic use of repetitive transcranial magnetic stimulation (rTMS): an update (2014-2018)	LEFAUCHEUR, JP ASSISTANCE PUBLIQUE HOPITAUX PARIS (APHP)	CLINICAL NEUROPHYSIOLOGY 131 (2): 474-528 FEB 2020 https://pubmed.ncbi.nlm.nih.gov/31901449/	20
95	冠状病毒与脑炎	Steroid-responsive encephalitis in coronavirus disease 2019	PILOTTO, A UNIVERSITY OF LONDON	ANNALS OF NEUROLOGY 88 (2): 423-427 AUG 2020 https://onlinelibrary.wiley.com/doi/full/10.1002/ana.25783	20

96	环状 RNA (circRNA) 与阿尔茨海默症发病机制	An atlas of cortical circular RNA expression in Alzheimer disease brains demonstrates clinical and pathological associations	DUBE, U WASHINGTON UNIVERSITY (WUSTL)	NATURE NEUROSCIENCE 22 (11): 1903-+ NOV 2019 https://pubmed.ncbi.nlm.nih.gov/31591557/	20
97	TREM2 与小胶质细胞	TREM2 regulates microglial cholesterol metabolism upon chronic phagocytic challenge	NUGENT, AA DENALI THERAPEUT	NEURON 105 (5): 837-+ MAR 4 2020 https://www.cell.com/neuron/fulltext/S0896-6273(19)31049-9	19
98	小胶质细胞与老龄化大脑	Lipid-droplet-accumulating microglia represent a dysfunctional and proinflammatory state in the aging brain	MARSCHALLINGER, J HOWARD HUGHES MEDICAL INSTITUTE	NATURE NEUROSCIENCE 23 (2): 194-+ FEB 2020 https://pubmed.ncbi.nlm.nih.gov/31959936/	19

99	冠状病毒感染与中枢神经系统 症状	Should we expect neurological symptoms in the SARS-CoV-2 epidemic?	MATIAS-GUIU, J UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE	NEUROLOGIA 35 (3): 170-175 APR 2020 https://www.sciencedirect.com/science/article/pii/S2173580820300523	19
100	冠状病毒感染与卒中	SARS-CoV-2 and stroke in a New York healthcare system	YAGHI, S BROWN UNIVERSITY	STROKE 51 (7): 2002-2011 JUL 2020 https://www.ahajournals.org/doi/10.1161/STROKEAHA.120.030335	19
101	Tau 蛋白与皮层基底节退行性 病变	Novel tau filament fold in corticobasal degeneration	ZHANG, WJ INDIANA UNIVERSITY BLOOMINGTON	NATURE 580 (7802): 283-+ APR 2020 https://pubmed.ncbi.nlm.nih.gov/32050258/	16

102	小胶质细胞与长期记忆遗忘	Microglia mediate forgetting via complement-dependent synaptic elimination	WANG, C ZHEJIANG UNIVERSITY	SCIENCE 367 (6478): 688-+ FEB 7 2020 https://science.sciencemag.org/content/367/6478/688.full	15
103	新冠肺炎对头痛的影响	Headaches associated with personal protective equipment - a cross-sectional study among frontline healthcare workers during COVID-19	ONG, JJY NATIONAL UNIVERSITY OF SINGAPORE	HEADACHE 60 (5): 864-877 MAY 2020 https://pubmed.ncbi.nlm.nih.gov/32232837/	15
104	血脑屏障功能障碍与认知功能下降	APOE4 leads to blood-brain barrier dysfunction predicting cognitive decline	MONTAGNE, A WASHINGTON UNIVERSITY (WUSTL)	NATURE 581 (7806): 70-+ MAY 7 2020 https://pubmed.ncbi.nlm.nih.gov/32376954/	15

105	富亮氨酸重复激酶 2 (leucine-rich repeat kinase 2, LRRK2) 与帕金森氏病	LRRK2 in Parkinson disease: challenges of clinical trials	TOLOSA, E AUTONOMOUS UNIVERSITY OF BARCELONA	NATURE REVIEWS NEUROLOGY 16 (2): 97-107 FEB 2020 https://pubmed.ncbi.nlm.nih.gov/31980808/	14
106	神经退行性病变的蛋白机制	Protein transmission in neurodegenerative disease	PENG, C DAVID GEFLEN SCHOOL OF MEDICINE AT UCLA	NATURE REVIEWS NEUROLOGY 16 (4): 199-212 APR 2020 https://pubmed.ncbi.nlm.nih.gov/32203399/	14
107	小胶质细胞在大脑中的角色	Microglial regional heterogeneity and its role in the brain	TAN, YL CAPITAL INSTITUTE OF PEDIATRICS (CIP)	MOLECULAR PSYCHIATRY 25 (2): 351-367 FEB 2020 https://www.researchgate.net/publication/337554625_Microglial_regional_heterogeneity_and_its_role_in_the	13

				<u>brain</u>	
108	嗅觉系统神经发生	Single-cell analysis of olfactory neurogenesis and differentiation in adult humans	DURANTE, MA BASCOM PALMER EYE INSTITUTE	NATURE NEUROSCIENCE 23 (3): 323-+ MAR 2020 https://pubmed.ncbi.nlm.nih.gov/32066986/	12
109	综述：星形胶质细胞与小胶质细胞	Astrocytes and microglia: in sickness and in health	VAINCHTEIN, ID UNIVERSITY OF CALIFORNIA SAN FRANCISCO	TRENDS IN NEUROSCIENCES 43 (3): 144-154 MAR 2020 https://www.sciencedirect.com/science/article/pii/S0166223620300047	12
110	低密度脂蛋白受体相关蛋白 1 (low-density lipoprotein receptor-related protein 1, LRP1) 与 tau 蛋白病理	LRP1 is a master regulator of tau uptake and spread	RAUCH, JN CALIFORNIA INSTITUTE OF TECHNOLOGY	NATURE 580 (7803): 381-+ APR 16 2020 https://pubmed.ncbi.nlm.nih.gov/32296178/	11

111	综述: 大麻二酚 (Cannabidiol) 治疗 Dravet 综合征 (原称婴儿严重肌阵挛性癫痫, severe myoclonic epilepsy of infancy, SMEI)	Adjunctive cannabidiol in patients with Dravet syndrome: a systematic review and meta-analysis of efficacy and safety	LATTANZI, S UNIVERSITY OF VERONA	CNS DRUGS 34 (3): - MAR 2020 https://pubmed.ncbi.nlm.nih.gov/32040850/	9
112	小胶质细胞与海马神经发生	Microglia actively remodel adult hippocampal neurogenesis through the phagocytosis secretome	DIAZ-APARICIO, I UNIVERSITY OF LEIPZIG	JOURNAL OF NEUROSCIENCE 40 (7): 1453-1482 FEB 12 2020 https://pubmed.ncbi.nlm.nih.gov/31896673/	9