

ESI 中神经科学与行为领域热点论文 信息推送

2020 年 7 月 第 4 期（总第 54 期）

中国科学院心理研究所信息中心

本期编者：王玮

地址：北京市朝阳区林萃路 16 号院

电话：010-64880539

发布日期：2020 年 7 月 24 日

邮编：100101

邮箱：xinzhongxin@psych.ac.cn

ESI 中神经科学与行为领域热点论文信息推送

——基于 2020 年 7 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 1 月至 2020 年 2 月发表的文章中，在 2020 年 3 月和 4 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 7 月 9 日。

本期发布神经科学与行为领域热点文章 98 篇，其中首次入榜文章 35 篇。单篇最高被引 231 次，最低被引 4 次。被引 231 次的文章发表在 *Neuro-Oncology* 上，标题为“CBTRUS Statistical Report: Primary Brain and Other Central Nervous System Tumors Diagnosed in the United States in 2011–2015”，第一作者为美国脑肿瘤登记中心（Central Brain Tumor Registry of the United States）的 Quinn T Ostrom，研究介绍了 CBTRUS 统计报告，即美国 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。首次入榜的 35 篇中单篇最高被引 70 次的文章标题为“The basal ganglia and the cerebellum: nodes in an integrated network”，发表在 *Nature Reviews Neuroscience* 上，第一作者是匹兹堡大学（University of Pittsburgh）的 Andreea C. Bostan，介绍了基底神经节与小脑。

本期部分首次入榜文章有：

- 31: 呼吸的神经机制;
- 33: 慢性痛;
- 56: 海马与奖赏编码;
- 59: 失眠会提高心理障碍风险;
- 62: 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;
- 69: 衰老与神经退行性疾病;
- 82: 通用人工智能 (artificial general intelligence, AGI);
- 86: fMRI 功能连接的重测信度;
- 96: 前扣带回与风险/奖赏决策。

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 7 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	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	231
2	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	169
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	155

				http://psych.summon.serialssolutions.com/psych.remotexs.cn/2.0.0/link?t=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	138
5	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	131
6	皮克氏病（Pick's disease）	Structures of filaments from picks disease reveal a novel tau protein fold	FALCON, B INDIANA UNIVERSITY SYSTEM	NATURE 561 (7721): 137-+ SEP 6 2018	123

				https://www.nature.com/articles/s41586-018-0454-y	
7	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	122
8	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	119
9	牙龈卟啉单胞菌 (porphyromonas gingivalis) 与	Porphyromonas gingivalis in Alzheimers disease brains:	DOMINY, SS VA BOSTON HEALTHCARE	SCI ADV 5 (1): - JAN 2019 https://advances.sciencemag.org/cont	113

	阿尔茨海默症	evidence for disease causation and treatment with small-molecule inhibitors	SYSTEM	ent/5/1/eaau3333.full	
10	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	112
11	综述: 基于 EEG 的脑机接口算法的最新进展	A review of classification algorithms for EEG-based brain-computer interfaces: a 10 year update	LOTTE, F RIKEN Brain Science Institute	JOURNAL OF NEURAL ENGINEERING 15 (3): - JUN 2018 https://www.ncbi.nlm.nih.gov/pubmed/29488902	105

12	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	101
13	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	96
14	多巴胺与行为	What does dopamine mean?	BERKE, JD UNIVERSITY OF CALIFORNIA SAN FRANCISCO	NAT NEUROSCI 21 (6): 787-793 JUN 2018 https://www.nature.com/articles/s41593-018-0152-y	95

15	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	95
16	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	95
17	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	92

18	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.remotexs.cn/docview/2155045478?pq-origsite=summon	89
19	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	86
20	小胶质细胞与脑髓样细胞	Developmental heterogeneity of microglia and brain myeloid cells revealed by deep single-cell RNA sequencing	LI, QY VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY	NEURON 101 (2): 207-+ JAN 16 2019 https://www.sciencedirect.com/science/article/pii/S0896627318310821	81

21	国际帕金森和运动障碍学会： 帕金森氏病运动系统症状的治 疗	International Parkinson and Movement Disorder Society evidence-based medicine review: update on treatments for the motor symptoms of Parkinsons disease	FOX, SH ACADEMIC MEDICAL CENTER AMSTERDAM,UNIVERSIT Y OF AMSTERDAM	MOVEMENT DISORD 33 (8): 1248-1266 AUG 2018 https://www.movementdisorders.org/MDS-Files1/Resources/PDFs/TreatmentsforMotorSymptomsofPD-2018.pdf	80
22	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	77
23	脑血管系统与中枢退行性病变	The role of brain vasculature in neurodegenerative disorders	SWEENEY, MD UNIVERSITY OF SOUTHERN CALIFORNIA	NATURE NEUROSCIENCE 21 (10): 1318-1331 OCT 2018 http://search.proquest.com/psych.remotexs.cn/docview/2112601603?pq-	76

				<u>origsite=summon</u>	
24	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 neuroinflammation in Alzheimers disease	PARK, J HARVARD UNIVERSITY	NATURE NEUROSCIENCE 21 (7): 941-+ JUL 2018 https://www.nature.com/articles/s41593-018-0175-4	76
25	蛋白病变与神经系统退行性病变	Neurodegenerative disease concomitant proteinopathies are prevalent, age-related and APOE4-associated	ROBINSON, JL UNIVERSITY OF PENNSYLVANIA	BRAIN 141: 2181-2193 PART 7 JUL 2018 https://academic.oup.com/brain/article/141/7/2181/5033683	75
26	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	74

27	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	71
28	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	71
29	基底神经节与小脑	The basal ganglia and the cerebellum: nodes in an integrated network	BOSTAN, AC UNIVERSITY OF PITTSBURGH	NATURE REVIEWS NEUROSCIENCE 19 (6): 338-350 JUN 2018 https://www.nature.com/articles/s41583-018-0002-7	70

30	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	70
31	呼吸的神经机制	Breathing matters	DEL NEGRO, CA UNIVERSITY OF CALIFORNIA LOS ANGELES	NATURE REVIEWS NEUROSCIENCE 19 (6): 351-367 JUN 2018 https://www.nature.com/articles/s41583-018-0003-6	70
32	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	68

33	慢性痛	Chronic pain as a symptom or a disease: the IASP classification of chronic pain for the international classification of diseases (ICD-11)	TREEDE, RD	PAIN 160 (1): 19-27 JAN 2019 https://pubmed.ncbi.nlm.nih.gov/30586067/	68
34	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	68
35	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	67

36	慢性创伤性脑部病变 (Chronic traumatic encephalopathy, CTE)	Novel tau filament fold in chronic traumatic encephalopathy encloses hydrophobic molecules	FALCON, B INDIANA UNIVERSITY SYSTEM	NATURE 568 (7752): 420-+ APR 18 2019 https://www.nature.com/articles/s41586-019-1026-5	66
37	小神经质细胞	Microglial signatures and their role in health and disease	BUTOVSKY, O HARVARD UNIVERSITY	NATURE REVIEWS NEUROSCIENCE 19 (10): 622-635 OCT 2018 https://www.nature.com/articles/s41583-018-0057-5	66
38	血管功能障碍与阿尔茨海默症	Vascular dysfunction-the disregarded partner of Alzheimers disease	SWEENEY, MD BOSTON UNIVERSITY	ALZHEIMERS & DEMENTIA 15 (1): 158-167 JAN 2019 http://alz-journals.onlinelibrary.wiley.com/psych.remotexs.cn/doi/abs/10.1016/j.jalz.2018.07.222	64

39	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/	62
40	综述：生活方式干预与认知受损、痴呆、阿尔茨海默症	Lifestyle interventions to prevent cognitive impairment, dementia and Alzheimer disease	KIVIPELTO, M FINLAND NATIONAL INSTITUTE FOR HEALTH & WELFARE	NAT REV NEUROL 14 (11): 653-666 NOV 2018 https://www.nature.com/articles/s41582-018-0070-3	60
41	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	60

42	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	60
43	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/	59
44	卒中的全球负担	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	59

45	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	55
46	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	52
47	从特发性快速眼动睡眠期行为障碍 (idiopathic REM sleep behaviour disorder, iRBD) 到痴呆和帕金森氏症等神经退行性疾病	Risk and predictors of dementia and parkinsonism in idiopathic REM sleep behaviour disorder: a multicentre study	POSTUMA, RB VITA-SALUTE SAN RAFFAELE UNIVERSITY	BRAIN 142: 744-759 PART 3 MAR 2019 https://pubmed.ncbi.nlm.nih.gov/30789229/	50
48	动作的神经影像研究	Neural correlates of action:	HARDWICK, RM	NEUROSCI BIOBEHAV REV 94:	50

		comparing meta-analyses of imagery, observation, and execution	HEINRICH HEINE UNIVERSITY DUSSELDORF	31-44 NOV 2018 https://www.sciencedirect.com/science/article/pii/S0149763417309284	
49	深部脑刺激成像	Lead-DBS V2: towards a comprehensive pipeline for deep brain stimulation imaging	HORN, A WAYNE STATE UNIVERSITY	NEUROIMAGE 184: 293-316 JAN 1 2019 https://www.sciencedirect.com/science/article/pii/S1053811918307663	48
50	AMPA 受体编码与突触可塑性	The AMPA receptor code of synaptic plasticity	DIERING, GH JOHNS HOPKINS UNIVERSITY	NEURON 100 (2): 314-329 OCT 24 2018 https://pubmed.ncbi.nlm.nih.gov/30359599/	48
51	外周神经系统调节	A wireless closed-loop system for optogenetic peripheral neuromodulation	MICKLE, AD BEIHANG UNIVERSITY	NATURE 565 (7739): 361-+ JAN 17 2019 http://search.proquest.com/psych.rem	47

				otexs.cn/docview/2171617078?pq-origsite=summon	
52	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/	47
53	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	44
54	阿尔茨海默症的病理学机制	Plasma phospho-tau181 increases with Alzheimers disease clinical severity and is associated with tau-	MIELKE, MM MAYO CLINIC	ALZHEIMERS & DEMENTIA 14 (8): 989-997 AUG 2018 https://www.sciencedirect.com/scien	44

		and amyloid-positron emission tomography		ce/article/pii/S1552526018300670	
55	综述：饮食质量与抑郁症预后	Healthy dietary indices and risk of depressive outcomes: a systematic review and meta-analysis of observational studies	LASSALE, C UNIVERSITY OF LONDON	MOLECULAR PSYCHIATRY 24 (7): 965-986 JUL 2019 https://www.nature.com/articles/s41380-018-0237-8	43
56	海马与奖赏编码	A dedicated population for reward coding in the hippocampus	GAUTHIER, JL PRINCETON UNIVERSITY	NEURON 99 (1): 179-+ JUL 11 2018 https://www.sciencedirect.com/science/article/pii/S0896627318304768	42
57	急性自发性脑出血	Absolute risk and predictors of the growth of acute spontaneous intracerebral haemorrhage: a	SALMAN, RAS WASHINGTON UNIVERSITY (WUSTL)	LANCET NEUROLOGY 17 (10): 885-894 OCT 2018 https://pubmed.ncbi.nlm.nih.gov/30120039/	40

		systematic review and meta-analysis of individual patient data			
58	耐药型抑郁症的药物治疗	Rapid-acting antidepressant ketamine, its metabolites and other candidates: a historical overview and future perspective	HASHIMOTO, K CHIBA UNIVERSITY	PSYCHIATRY AND CLINICAL NEUROSCIENCES 73 (10): 613-627 OCT 2019 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6851782/	33
59	失眠会提高心理障碍风险	Insomnia as a predictor of mental disorders: a systematic review and meta-analysis	HERTENSTEIN, E STOCKHOLM UNIVERSITY	SLEEP MEDICINE REVIEWS 43: 96-105 FEB 2019 https://www.sciencedirect.com/science/article/pii/S1087079218301138	33
60	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	POWERS, WJ CASE WESTERN RESERVE UNIVERSITY	STROKE 50 (12): E344-E418 DEC 2019 https://www.ahajournals.org/doi/10.1	32

		2018 guidelines for the early management of acute ischemic stroke: a guideline for healthcare professionals from the American Heart Association/American Stroke Association		<u>161/STR.0000000000000211</u>	
61	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	31
62	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	29

63	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	29
64	综述: 神经退行性 tau 蛋白病变	Tau pet imaging in neurodegenerative tauopathies-still a challenge	LEUZY, A KAROLINSKA INSTITUTET	MOLECULAR PSYCHIATRY 24 (8): 1112-1134 AUG 2019 https://www.nature.com/articles/s41380-018-0342-8	28
65	认知神经科学中功能性近红外光谱技术 (functional near-infrared spectroscopy, fNIRS) 的应用	The present and future use of functional near-infrared spectroscopy (fNIRS) for cognitive neuroscience	PINTI, P UNIVERSITY COLLEGE LONDON	ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 1464 (1): 5-29 SP. ISS. SI MAR 2020 https://nyaspubs.onlinelibrary.wiley.com/doi/pdf/10.1111/nyas.13948	27

66	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	26
67	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	26
68	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/	26

69	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	25
70	血脑屏障的高选择性	Hypoxia-enhanced blood-brain barrier chip recapitulates human barrier function and shuttling of drugs and antibodies	PARK, TE UNIVERSITY OF WISCONSIN SYSTEM	NATURE COMMUNICATIONS 10: - JUN 13 2019 https://www.nature.com/articles/s41467-019-10588-0	25
71	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/	24

72	小胶质细胞与阿尔茨海默症	Sustained microglial depletion with CSF1R inhibitor impairs parenchymal plaque development in an Alzheimers disease model	SPANGENBERG, E UNIVERSITY OF CALIFORNIA SYSTEM	NATURE COMMUNICATIONS 10: - AUG 21 2019 https://www.nature.com/articles/s41467-019-11674-z	22
73	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/	22
74	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/	22
75	帕金森氏病	Identification of novel risk loci, causal insights, and heritable risk	NALLS, MA VAN ANDEL INSTITUTE	LANCET NEUROLOGY 18 (12): 1091-1102 DEC 2019	20

		for Parkinsons disease: a meta-analysis of genome-wide association studies		https://pubmed.ncbi.nlm.nih.gov/31701892/	
76	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	20
77	淀粉样变性与阿尔茨海默症	High-precision plasma beta-amyloid 42/40 PREDICTS CURRENT AND FUTURE BRAIN AMYLOIDOSIS	SCHINDLER, SE WASHINGTON UNIVERSITY (WUSTL)	NEUROLOGY 93 (17): E1647-E1659 OCT 22 2019 https://pubmed.ncbi.nlm.nih.gov/31371569/	19
78	成瘾行为	The interaction of person-affect-cognition-execution (I-PACE) model for addictive behaviors:	BRAND, M UNIVERSITY OF DUISBURG ESSEN	NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS 104: 1-10 SEP 2019	19

		update, generalization to addictive behaviors beyond internet-use disorders, and specification of the process character of addictive behaviors		https://www.sciencedirect.com/science/article/pii/S0149763419303707	
79	β 淀粉样蛋白与阿尔茨海默症 筛查	Performance of fully automated plasma assays as screening tests for Alzheimer disease-related beta-amyloid status	PALMQVIST, S UNIVERSITY OF LONDON	JAMA NEUROLOGY 76 (9): 1060-1069 SEP 2019 https://pubmed.ncbi.nlm.nih.gov/31233127/	18
80	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/	18

81	睡眠的生理和神经机制	Coupled electrophysiological, hemodynamic, and cerebrospinal fluid oscillations in human sleep	FULTZ, NE BETH ISRAEL DEACONESS MEDICAL CENTER	SCIENCE 366 (6465): 628-+ NOV 1 2019 https://pubmed.ncbi.nlm.nih.gov/31672896/	14
82	通用人工智能 (artificial general intelligence, AGI)	Towards artificial general intelligence with hybrid tianjic chip architecture	PEI, J BEIJING NORMAL UNIVERSITY	NATURE 572 (7767): 106-+ AUG 1 2019 https://www.nature.com/articles/s41586-019-1424-8	14
83	基于 CRISPR 干扰, 用于人类神经元基因筛选	CRISPR interference-based platform for multimodal genetic screens in human iPSC-derived neurons	TIAN, RL UNIVERSITY OF CALIFORNIA SYSTEM	NEURON 104 (2): 239-+ OCT 23 2019 https://pubmed.ncbi.nlm.nih.gov/31422865/	13

84	肠道微生物组与抑郁和焦虑	The role of inflammation and the gut microbiome in depression and anxiety	PEIRCE, JM TEXAS TECH UNIVERSITY	JOURNAL OF NEUROSCIENCE RESEARCH 97 (10): 1223-1241 OCT 2019 https://pubmed.ncbi.nlm.nih.gov/31144383/	13
85	局部癫痫发作	Safety and efficacy of adjunctive cenobamate (ykp3089) in patients with uncontrolled focal seizures: a multicentre, double-blind, randomised, placebo-controlled, dose-response trial	KRAUSS, GL JOHNS HOPKINS UNIVERSITY	LANCET NEUROLOGY 19 (1): 38-48 JAN 2020 https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(19)30399-0/fulltext	11
86	fMRI 功能连接的重测信度	A decade of test-retest reliability of functional connectivity: a systematic review and meta-analysis	NOBLE, S YALE UNIVERSITY;	NEUROIMAGE 203: - DEC 2019 https://www.sciencedirect.com/science/article/pii/S1053811919307487	10

87	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/	9
88	α 突触核蛋白与阿尔茨海默症	Alpha-synuclein strains target distinct brain regions and cell types	LAU, A UPPSALA UNIVERSITY	NATURE NEUROSCIENCE 23 (1): 21-+ JAN 2020 https://www.nature.com/articles/s41593-019-0541-x	9
89	酒精使用障碍患者的依恋风格与述情障碍(alexithymia)	Impact of the interaction between alexithymia and the adult attachment styles in participants with alcohol use disorder	ZAKHOUR, M LEBANESE UNIVERSITY	ALCOHOL 83: 1-8 MAR 2020 https://www.sciencedirect.com/science/article/pii/S074183291930028X	8

90	体育活动与抑郁	Physical activity and depression: towards understanding the antidepressant mechanisms of physical activity	KANDOLA, A UNIVERSITY OF TORONTO	NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS 107: 525-539 DEC 2019 https://pubmed.ncbi.nlm.nih.gov/31586447/	8
91	早期胚胎发育过程中大麻素、 酒精暴露的安全性	Cannabinoids exacerbate alcohol teratogenesis by a CB1-hedgehog interaction	FISH, EW NORTH CAROLINA CENTRAL UNIVERSITY	SCIENTIFIC REPORTS 9: - NOV 5 2019 https://pubmed.ncbi.nlm.nih.gov/31690747/	7
92	拷贝数变异与神经发育障碍	Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia	SONDERBY, IE YALE UNIVERSITY	MOLECULAR PSYCHIATRY 25 (3): 584-602 MAR 2020 https://pubmed.ncbi.nlm.nih.gov/30283035/	7

93	肠道微生物组与神经系统疾病	The gut microbiome in neurological disorders	CRYAN, JF UNIVERSITY COLLEGE CORK	LANCET NEUROLOGY 19 (2): 179-194 FEB 2020 https://www.sciencedirect.com/science/article/pii/S1474442219303564	7
94	环状 RNAs 在人脑中的表达	The landscape of circular RNA expression in the human brain	GOKOOL, A UNIVERSITY OF NEW SOUTH WALES SYDNEY	BIOLOGICAL PSYCHIATRY 87 (3): 294-304 FEB 1 2020 https://www.sciencedirect.com/science/article/pii/S0006322319315811	6
95	脑淀粉样血管病 (cerebral amyloid angiopathy) 与阿尔茨海默症	Cerebral amyloid angiopathy and Alzheimer disease - one peptide, two pathways	GREENBERG, SM AUTONOMOUS UNIVERSITY OF BARCELONA	NATURE REVIEWS NEUROLOGY 16 (1): 30-42 JAN 2020 https://www.nature.com/articles/s41582-019-0281-2	5

96	前扣带回与风险/奖赏决策	Dissociable roles for the ventral and dorsal medial prefrontal cortex in cue-guided risk/reward decision making	VAN HOLSTEIN, M UNIVERSITY OF BRITISH COLUMBIA	NEUROPSYCHOPHARMACOLOGY 45 (4): 683-693 MAR 2020 https://www.nature.com/articles/s41386-019-0557-7	4
97	卒中后癫痫发作 (poststroke seizures)	Intravenous thrombolysis with tPA and cortical involvement increase the risk of early poststroke seizures: results of a case-control study	BRIGO, F UNIVERSITY OF VERONA	EPILEPSY & BEHAVIOR 104: - PART B SP. ISS. SI MAR 2020 https://pubmed.ncbi.nlm.nih.gov/31182396/	4
98	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	4

