

# ESI 中神经科学与行为领域热点论文 信息推送

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## ESI 中神经科学与行为领域热点论文信息推送

### ——基于 2020 年 3 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 10 月至 2019 年 10 月发表的文章中, 在 2019 年 11 月和 12 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 3 月 12 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 40 篇。单篇最高被引 983 次, 最低被引 4 次。被引 983 次的文章发表在上 *Stroke*, 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 40 篇中单篇最高被引 69 次的文章标题为“A Review of Classification Algorithms for EEG-based Brain-Computer Interfaces: A 10 Year Update”, 发表在 *Journal of Neural Engineering* 上, 第一作者是日本 RIKEN 脑科学研究所 (RIKEN Brain Science Institute) 的 F Lotte, 介绍了基于 EEG 的脑机接口算法的最新进展。

本期首次入榜主题是 大脑类器官, 部分首次入榜文章有:

- 40: 淀粉样蛋白假说、tau 病理学与阿尔茨海默症;
- 53: 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;
- 55: 综述——机器学习与精准精神病学;
- 58: 神经系统疾病中的神经胶质-淋巴通路;
- 62: EEGNet——一种用于基于 EEG 的脑机接口的卷积神经网络;
- 64: 阿尔茨海默症的体液生物标记物;
- 65: 深部脑刺激成像;
- 66: 自发行为与全脑神经活动;
- 85: 老年个体工作记忆的改善与脑环路节律同步;
- 88: 精神分裂症患者皮层中间神经元改变与认知功能;
- 98: 神经活动提示, 小鼠在做决策时似乎也会做些小动作;

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102: 人类的色彩知觉。

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 3 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 <a href="https://www.ahajournals.org/doi/10.1161/STR.000000000000158">https://www.ahajournals.org/doi/10.1161/STR.000000000000158</a>	983
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 <a href="https://www.sciencedirect.com/science/article/pii/S1552526018300724">https://www.sciencedirect.com/science/article/pii/S1552526018300724</a>	566
3	2017 版多发性硬化症诊断的 McDonald 标准	Diagnosis of multiple sclerosis: 2017 revisions of the Mcdonald criteria	THOMPSON, AJ CHILDRENS HOSP	LANCET NEUROL 17 (2): 162-173 FEB 2018	440

			PHILADELPHIA	<a href="https://www.sciencedirect.com/science/article/pii/S1474442217304702">https://www.sciencedirect.com/science/article/pii/S1474442217304702</a>	
4	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 undetectable levels in adults	SORRELLS, SF CIBERNED	NATURE 555 (7696): 377-+ MAR 15 2018 <a href="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">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</a>	277
5	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 <a href="https://www.nature.com/articles/nature26000">https://www.nature.com/articles/nature26000</a>	229

6	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 <a href="https://www.nature.com/articles/nrneuro.2017.188">https://www.nature.com/articles/nrneuro.2017.188</a>	183
7	血浆中阿尔茨海默病的淀粉样蛋白标记物	High performance plasma amyloid-beta biomarkers for Alzheimers disease	Nakamura, A National Center for Geriatrics & Gerontology	NATURE 554 (7691): 249-+ FEB 8 2018 <a href="https://www.nature.com/articles/nature25456">https://www.nature.com/articles/nature25456</a>	182
8	光遗传学近红外深部脑刺激	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics	CHEN, S UNIVERSITY OF TOKYO	SCIENCE 359 (6376): 679-683 FEB 9 2018 <a href="http://science.sciencemag.org/content/359/6376/679.full">http://science.sciencemag.org/content/359/6376/679.full</a>	172
9	更新美国神经病学学会	Practice guideline update summary:	PETERSEN, RC	NEUROLOGY 90 (3): 126-135 JAN	135

	(American Academy of Neurology)轻度认知障碍指导方针 (2001 版)	mild cognitive impairment: report of the guideline development, dissemination, and implementation subcommittee of the American Academy of Neurology	NA-CHARLESTON AREA MED CTR	16 2018 <a href="http://n.neurology.org/content/90/3/1">http://n.neurology.org/content/90/3/1</a> <u>26</u>	
10	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 <a href="https://academic.oup.com/neuro-oncology/article/20/suppl_4/iv1/509">https://academic.oup.com/neuro-oncology/article/20/suppl_4/iv1/509</a> <u>0960</u>	131
11	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录组测序	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 <a href="http://science.sciencemag.org/content/360/6385/176.full">http://science.sciencemag.org/content/360/6385/176.full</a>	128

12	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 <a href="http://science.sciencemag.org/content/360/6392/998.full">http://science.sciencemag.org/content/360/6392/998.full</a>	127
13	运动障碍中震颤 (tremor) 的类型	Consensus statement on the classification of tremors. from the task force on tremor of the international parkinson and movement disorder society	BHATIA, KP IMPERIAL COLL LONDON	MOVEMENT DISORD 33 (1): 75- 87 JAN 2018 <a href="https://onlinelibrary.wiley.com/doi/10.1002/mds.27121">https://onlinelibrary.wiley.com/doi/10.1002/mds.27121</a>	122
14	阿尔茨海默症	ALZHEIMERS DISEASE	LANE, CA UNIVERSITY COLLEGE LONDON	EUR J NEUROLOGY 25 (1): 59-70 JAN 2018 <a href="https://onlinelibrary.wiley.com/doi/10.1111/ene.13439">https://onlinelibrary.wiley.com/doi/10.1111/ene.13439</a>	118
15	独立阿尔茨海默症群体的多尺	Multiscale analysis of independent	Readhead, B	NEURON 99 (1): 64-+ JUL 11	112



	度分析发现人类疱疹病毒对分子、基因和临床网络的破坏	Alzheimers cohorts finds disruption of molecular, genetic, and clinical networks by human herpesvirus	Icahn School of Medicine at Mount Sinai	2018 <a href="https://www.sciencedirect.com/science/article/pii/S0896627318304215">https://www.sciencedirect.com/science/article/pii/S0896627318304215</a>	
16	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 <a href="https://www.nature.com/articles/s41586-018-0119-x">https://www.nature.com/articles/s41586-018-0119-x</a>	107
17	综述：杜氏肌营养不良的诊断与管理	Diagnosis and management of Duchenne muscular dystrophy, part 1: diagnosis, and neuromuscular, rehabilitation, endocrine, and gastrointestinal and nutritional management	BIRNKRANT, DJ CASE WESTERN RESERVE UNIVERSITY	LANCET NEUROLOGY 17 (3): 251-267 MAR 2018 <a href="https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30024-3/fulltext">https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30024-3/fulltext</a>	96
18	氯胺酮治疗抑郁	Ketamine blocks bursting in the	YANG, Y	NATURE 554 (7692): 317-+ FEB 15	95

		lateral habenula to rapidly relieve depression	ZHEJIANG UNIV	2018 <a href="http://www.ziint.zju.edu.cn/ueditor/p hp/upload/file/20180305/1520233072129198.pdf">http://www.ziint.zju.edu.cn/ueditor/p hp/upload/file/20180305/1520233072129198.pdf</a>	
19	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 <a href="http://science.sciencemag.org/content/361/6400/eaat5691.full">http://science.sciencemag.org/content/361/6400/eaat5691.full</a>	91
20	经颅电刺激大脑回路对大鼠和人类的直接影响	Direct effects of transcranial electric stimulation on brain circuits in rats and humans	Voroslakos, M Szeged University	NAT COMMUN 9: - FEB 2 2018 <a href="https://www.nature.com/articles/s41467-018-02928-3.pdf">https://www.nature.com/articles/s41467-018-02928-3.pdf</a>	91
21	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 <a href="https://www.nature.com/articles/s41586-018-0654-5">https://www.nature.com/articles/s41586-018-0654-5</a>	90

22	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 <a href="https://www.nature.com/articles/s41582-018-0058-z">https://www.nature.com/articles/s41582-018-0058-z</a>	86
23	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 <a href="https://www.nature.com/articles/s41586-018-0368-8">https://www.nature.com/articles/s41586-018-0368-8</a>	85
24	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 <a href="https://www.nature.com/articles/s41586-018-0454-y">https://www.nature.com/articles/s41586-018-0454-y</a>	84

25	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 <a href="https://science.sciencemag.org/content/360/6396/eaat4422.full">https://science.sciencemag.org/content/360/6396/eaat4422.full</a>	84
26	综述：利用非侵入性脑刺激研究与调节脑功能	Studying and modifying brain function with non-invasive brain stimulation	POLANIA, R DORTMUND UNIVERSITY OF TECHNOLOGY	NAT NEUROSCI 21 (2): 174-187 FEB 2018 <a href="https://www.nature.com/articles/s41593-017-0054-4">https://www.nature.com/articles/s41593-017-0054-4</a>	80
27	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 <a href="https://www.nature.com/articles/s41582-018-0003-1">https://www.nature.com/articles/s41582-018-0003-1</a>	78

28	脑源性神经营养因子 (Brain-Derived Neurotrophic Factor, BDNF) 与大脑信号转导系统和突触可塑性	BDNF: a key factor with multipotent impact on brain signaling and synaptic plasticity	KOWIANSKI, P MEDICAL UNIVERSITY GDANSK	CELL MOL NEUROBIOL 38 (3): 579-593 APR 2018 <a href="https://link.springer.com/content/pdf/10.1007%2Fs10571-017-0510-4.pdf">https://link.springer.com/content/pdf/10.1007%2Fs10571-017-0510-4.pdf</a>	78
29	综述: 多发性硬化症	Multiple sclerosis: mechanisms and immunotherapy	BAECHER-ALLAN, C HARVARD UNIVERSITY	NEURON 97 (4): 742-768 FEB 21 2018 <a href="https://www.sciencedirect.com/science/article/pii/S0896627318300461">https://www.sciencedirect.com/science/article/pii/S0896627318300461</a>	76
30	美国大麻使用的流行病学研究	US epidemiology of cannabis use and associated problems	HASIN, DS COLUMBIA UNIVERSITY	NEUROPSYCHOPHARMACOL OGY 43 (1): 195-212 JAN 2018 <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5719106/?tool=pmcentrez&amp;report=abstract">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5719106/?tool=pmcentrez&amp;report=abstract</a>	75
31	血脑屏障与阿尔茨海默症	Blood-brain barrier opening in	LIPSMAN, N	NAT COMMUN 9: - JUL 25 2018	71

		Alzheimers disease using MR-guided focused ultrasound	JOHNS HOPKINS UNIVERSITY	<a href="https://www.nature.com/articles/s41467-018-04529-6">https://www.nature.com/articles/s41467-018-04529-6</a>	
32	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 Insitute	JOURNAL OF NEURAL ENGINEERING 15 (3): - JUN 2018 <a href="https://www.ncbi.nlm.nih.gov/pubmed/29488902">https://www.ncbi.nlm.nih.gov/pubmed/29488902</a>	69
33	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 <a href="https://advances.sciencemag.org/content/5/1/eaau3333.full">https://advances.sciencemag.org/content/5/1/eaau3333.full</a>	68
34	芬太尼、芬太尼类似物与新型合成类阿片	Fentanyl, fentanyl analogs and novel synthetic opioids: a comprehensive	ARMENIAN, P	NEUROPHARMACOLOGY 134: 121-132 PART A SP. ISS. SI MAY	67

		review	UNIVERSITY OF CALIFORNIA SAN FRANCISCO	15 2018 <a href="https://www.sciencedirect.com/science/article/pii/S0028390817304847">https://www.sciencedirect.com/science/article/pii/S0028390817304847</a>	
35	内感受与心理健康	Interoception and mental health: a roadmap	KHALSA, SS CALIFORNIA INSTITUTE OF TECHNOLOGY	BIOLOGICAL PSYCHIATRY-COGNITIVE NEUROSCIENCE AND NEUROIMAGING 3 (6): 501-513 SP. ISS. SI JUN 2018 <a href="http://fp5hj6fw9s.search.serialssolutions.com/psych.remotexs.cn/?ctx_ver=Z39.88-2004&amp;ctx_enc=info%3Aofi%2Fenc%3AUTF-8&amp;rft_id=info%3Aid%2Fsummon.serialssolutions.com&amp;rft_val_fmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Ajournal&amp;rft.genre=article&amp;rft.atitl">http://fp5hj6fw9s.search.serialssolutions.com/psych.remotexs.cn/?ctx_ver=Z39.88-2004&amp;ctx_enc=info%3Aofi%2Fenc%3AUTF-8&amp;rft_id=info%3Aid%2Fsummon.serialssolutions.com&amp;rft_val_fmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Ajournal&amp;rft.genre=article&amp;rft.atitl</a>	67

				<a href="#">e=Interoception+and+Mental+Health%3A+A+Roadmap&amp;rft.jtitle=Biological+psychiatry.+Cognitive+neuroscience+and+neuroimaging&amp;rft.au=Khalsa%2C+Sahib+S&amp;rft.au=Adolphs%2C+Ralph&amp;rft.au=Cameron%2C+Oliver+G&amp;rft.au=Critchley%2C+Hugo+D&amp;rft.date=2018-06-01&amp;rft.eissn=2451-9030&amp;rft.volume=3&amp;rft.issue=6&amp;rft.spage=501&amp;rft_id=info%3Apmid%2F29884281&amp;rft.externalDocID=29884281&amp;paramdict=zh-CN</a>	
36	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	STOVNER, LJ WEST VIRGINIA UNIVERSITY	LANCET NEUROL 17 (11): 954-976 NOV 2018 <a href="https://www.thelancet.com/journals/l">https://www.thelancet.com/journals/l</a>	66



		analysis for the global burden of disease study 2016		<a href="#">aneur/article/PIIS1474-4422(18)30322-3/fulltext</a>	
37	反义寡核苷酸（Antisense oligonucleotides, ASOs）治疗神经系统疾病	Antisense oligonucleotides: the next frontier for treatment of neurological disorders	RINALDI, C UNIVERSITY OF OXFORD	NATURE REVIEWS NEUROLOGY 14 (1): 9-21 JAN 2018 <a href="https://www.nature.com/articles/nrneuro.2017.148">https://www.nature.com/articles/nrneuro.2017.148</a>	65
38	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 <a href="https://www.nature.com/articles/s41582-018-0013-z">https://www.nature.com/articles/s41582-018-0013-z</a>	64
39	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 <a href="https://www.nature.com/articles/s41582-018-0013-z">https://www.nature.com/articles/s41582-018-0013-z</a>	60

				<u>93-018-0242-x</u>	
40	淀粉样蛋白假说、tau 病理学与阿尔茨海默症	Reconsideration of amyloid hypothesis and tau hypothesis in Alzheimers disease	KAMETANI, F TOKYO METROPOLITAN INSTITUTE OF MEDICAL SCIENCE	FRONTIERS IN NEUROSCIENCE 12: - JAN 30 2018 <a href="https://www.ncbi.nlm.nih.gov/pubmed/29440986">https://www.ncbi.nlm.nih.gov/pubmed/29440986</a>	60
41	DeepLabCut: 无需标记的深度 学习（动物）姿态估计与行为 跟踪	DeepLabCut: markerless pose estimation of user-defined body parts with deep learning	MATHIS, A BAYLOR COLLEGE OF MEDICINE	NAT NEUROSCI 21 (9): 1281-+ SEP 2018 <a href="https://www.nature.com/articles/s41593-018-0209-y">https://www.nature.com/articles/s41593-018-0209-y</a>	60
42	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	SKLJAREVSKI, V UNIVERSITY OF LONDON	CEPHALALGIA 38 (8): 1442- 1454 JUL 2018 <a href="https://journals.sagepub.com/doi/abs/">https://journals.sagepub.com/doi/abs/</a>	58

		evolve-2 phase 3 randomized controlled clinical trial		<a href="https://doi.org/10.1177/0333102418779543">10.1177/0333102418779543?journalCode=cepa</a>	
43	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 <a href="https://www.sciencedirect.com/science/article/pii/S1474442218302953">https://www.sciencedirect.com/science/article/pii/S1474442218302953</a>	53
44	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 <a href="http://psych.summon.serialssolutions.com/psych.remotexs.cn/2.0.0/link?token=1583206423265">http://psych.summon.serialssolutions.com/psych.remotexs.cn/2.0.0/link?token=1583206423265</a>	53

45	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 <a href="https://www.nature.com/articles/s41586-019-0924-x">https://www.nature.com/articles/s41586-019-0924-x</a>	50
46	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 <a href="http://search.proquest.com/psych.remotexs.cn/docview/2155045478?pq-origsite=summon">http://search.proquest.com/psych.remotexs.cn/docview/2155045478?pq-origsite=summon</a>	49
47	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 <a href="https://science.sciencemag.org/content/363/6434/1463.full">https://science.sciencemag.org/content/363/6434/1463.full</a>	48

48	海马神经发生与压力应对	Hippocampal neurogenesis confers stress resilience by inhibiting the ventral dentate gyrus	ANACKER, C COLUMBIA UNIVERSITY	NATURE 559 (7712): 98-+ JUL 5 2018 <a href="https://www.nature.com/articles/s41586-018-0262-4">https://www.nature.com/articles/s41586-018-0262-4</a>	48
49	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 <a href="https://www.nature.com/articles/s41586-018-0649-2">https://www.nature.com/articles/s41586-018-0649-2</a>	48
50	神经环路微调机制	Pharmacogenetic stimulation of neuronal activity increases myelination in an axon-specific manner	MITEW, S UNIVERSITY OF QUEENSLAND	NATURE COMMUNICATIONS 9: - JAN 22 2018 <a href="https://www.nature.com/articles/s41467-017-02719-2">https://www.nature.com/articles/s41467-017-02719-2</a>	46
51	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	45

		revealed by deep single-cell RNA sequencing	INSTITUTE & STATE UNIVERSITY	<a href="https://www.sciencedirect.com/science/article/pii/S0896627318310821">https://www.sciencedirect.com/science/article/pii/S0896627318310821</a>	
52	多发性硬化症	The compartmentalized inflammatory response in the multiple sclerosis brain is composed of tissue-resident cd8+t lymphocytes and B cells	MACHADO-SANTOS, J UNIVERSITE TOULOUSE III - PAUL SABATIER	BRAIN 141: 2066-2082 PART 7 JUL 2018 <a href="https://www.ncbi.nlm.nih.gov/pubmed/29873694">https://www.ncbi.nlm.nih.gov/pubmed/29873694</a>	42
53	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 <a href="https://science.sciencemag.org/content/362/6416/eaau5324.full">https://science.sciencemag.org/content/362/6416/eaau5324.full</a>	42
54	综述: 阿尔茨海默症 $\beta$ 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 <a href="https://www.nature.com/articles/s415">https://www.nature.com/articles/s415</a>	42

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55	综述：机器学习与精准精神病学	Machine learning for precision psychiatry: opportunities and challenges	BZDOK, D UNIV BRETAGNE LOIRE	BIOLOGICAL PSYCHIATRY-COGNITIVE NEUROSCIENCE AND NEUROIMAGING 3 (3): 223-230 MAR 2018 <a href="https://www.sciencedirect.com/science/article/pii/S2451902217302069">https://www.sciencedirect.com/science/article/pii/S2451902217302069</a>	42
56	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 <a href="https://www.nature.com/articles/s41583-018-0057-5">https://www.nature.com/articles/s41583-018-0057-5</a>	41
57	髓磷脂与少突胶质细胞	Myelin remodeling through experience-dependent	HUGHES, EG	NATURE NEUROSCIENCE 21 (5): 696-+ MAY 2018	41

		oligodendrogenesis in the adult somatosensory cortex	JOHNS HOPKINS UNIVERSITY	<a href="https://www.nature.com/articles/s41593-018-0121-5">https://www.nature.com/articles/s41593-018-0121-5</a>	
58	神经系统疾病中的神经胶质-淋巴通路	The glymphatic pathway in neurological disorders	RASMUSSEN, MK UNIVERSITY OF COPENHAGEN	LANCET NEUROLOGY 17 (11): 1016-1024 NOV 2018 <a href="https://www.ncbi.nlm.nih.gov/pubmed/30353860">https://www.ncbi.nlm.nih.gov/pubmed/30353860</a>	40
59	单细胞 RNA 测序发现新视网膜神经节细胞亚型	Single cell transcriptome profiling of retinal ganglion cells identifies cellular subtypes	RHEAUME, BA UNIVERSITY OF CONNECTICUT	NATURE COMMUNICATIONS 9: - JUL 17 2018 <a href="https://www.nature.com/articles/s41467-018-05134-3">https://www.nature.com/articles/s41467-018-05134-3</a>	39
60	抑郁的遗传学研究	Genome-wide meta-analysis of depression identifies 102 independent variants and highlights	HOWARD, DM VA BOSTON HEALTHCARE SYSTEM;UNIVERSITY OF QUEENSLAND	NATURE NEUROSCIENCE 22 (3): 343-+ MAR 2019 <a href="https://www.nature.com/articles/s41593-018-0326-7">https://www.nature.com/articles/s41593-018-0326-7</a>	35



		the importance of the prefrontal brain regions			
61	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 <a href="https://www.sciencedirect.com/science/article/pii/S0306452218302549">https://www.sciencedirect.com/science/article/pii/S0306452218302549</a>	34
62	EEGNet,——一种用于基于 EEG 的脑机接口的卷积神经网络	EEGNET: a compact convolutional neural network for EEG-based brain-computer interfaces	LAWHERN, VJ COLUMBIA UNIVERSITY	JOURNAL OF NEURAL ENGINEERING 15 (5): - OCT 2018 <a href="https://arxiv.org/pdf/1611.08024.pdf">https://arxiv.org/pdf/1611.08024.pdf</a>	34
63	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 <a href="https://www.sciencedirect.com/science/article/pii/S0031938418305730">https://www.sciencedirect.com/science/article/pii/S0031938418305730</a>	34

64	阿尔茨海默症的体液生物标记物	Current state of Alzheimers fluid biomarkers	MOLINUEVO, JL WASHINGTON UNIVERSITY (WUSTL)	ACTA NEUROPATHOLOGICA 136 (6): 821-853 DEC 2018 <a href="https://pubmed.ncbi.nlm.nih.gov/30488277/">https://pubmed.ncbi.nlm.nih.gov/30488277/</a>	33
65	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 <a href="https://www.sciencedirect.com/science/article/pii/S1053811918307663">https://www.sciencedirect.com/science/article/pii/S1053811918307663</a>	30
66	自发行为与全脑神经活动	Spontaneous behaviors drive multidimensional, brainwide activity	STRINGER, C UNIVERSITY OF WASHINGTON SEATTLE	SCIENCE 364 (6437): 255-+ APR 19 2019 <a href="https://science.sciencemag.org/content/364/6437/eaav7893.full">https://science.sciencemag.org/content/364/6437/eaav7893.full</a>	30

67	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 <a href="https://www.nature.com/articles/s41586-019-1026-5">https://www.nature.com/articles/s41586-019-1026-5</a>	29
68	精神疾病的遗传学研究	Psychiatric genetics and the structure of psychopathology	SMOLLER, JW VIRGINIA COMMONWEALTH UNIVERSITY	MOLECULAR PSYCHIATRY 24 (3): 409-420 MAR 2019 <a href="https://www.nature.com/articles/s41380-017-0010-4">https://www.nature.com/articles/s41380-017-0010-4</a>	26
69	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 <a href="http://search.proquest.com/psych.remote/cn/docview/2207083391?pq-origsite=summon">http://search.proquest.com/psych.remote/cn/docview/2207083391?pq-origsite=summon</a>	26

70	偏头痛的临床治疗实践	The American headache society position statement on integrating new migraine treatments into clinical practice	DIGRE, KB AMER HEADACHE SOC	HEADACHE 59 (1): 1-18 JAN 2019 <a href="https://pubmed.ncbi.nlm.nih.gov/30536394/">https://pubmed.ncbi.nlm.nih.gov/30536394/</a>	25
71	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 <a href="https://www.nature.com/articles/s41593-018-0290-2">https://www.nature.com/articles/s41593-018-0290-2</a>	25
72	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 <a href="https://www.repository.cam.ac.uk/bitstream/handle/1810/290624/awz099.pdf?sequence=4&amp;isAllowed=y">https://www.repository.cam.ac.uk/bitstream/handle/1810/290624/awz099.pdf?sequence=4&amp;isAllowed=y</a>	25

73	离体猪脑微循环以及分子和细胞功能的恢复和维持	Restoration of brain circulation and cellular functions hours post-mortem	VRSELJA, Z BOSTON UNIVERSITY	NATURE 568 (7752): 336-+ APR 18 2019 <a href="https://www.nature.com/articles/s41586-019-1099-1">https://www.nature.com/articles/s41586-019-1099-1</a>	25
74	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 <a href="https://www.nature.com/articles/s41586-019-1195-2">https://www.nature.com/articles/s41586-019-1195-2</a>	24
75	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 <a href="http://fp5hj6fw9s.search.serialssolutions.com/psych.remotexs.cn/?ctx_ver=Z39.88-2004&amp;ctx_enc=info%3Aofi%2Fenc%3AUTF-">http://fp5hj6fw9s.search.serialssolutions.com/psych.remotexs.cn/?ctx_ver=Z39.88-2004&amp;ctx_enc=info%3Aofi%2Fenc%3AUTF-</a>	24

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76	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 <a href="https://pubmed.ncbi.nlm.nih.gov/30571942/">https://pubmed.ncbi.nlm.nih.gov/30571942/</a>	24
77	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 <a href="https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30415-0/fulltext">https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(18)30415-0/fulltext</a>	21

78	少突胶质细胞的分化与成熟	Differentiation and maturation of oligodendrocytes in human three-dimensional neural cultures	MARTON, RM STANFORD UNIVERSITY	NAT NEUROSCI 22 (3): 484-+ MAR 2019 <a href="https://www.nature.com/articles/s41593-018-0316-9">https://www.nature.com/articles/s41593-018-0316-9</a>	21
79	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 <a href="https://www.nature.com/articles/s41593-019-0393-4">https://www.nature.com/articles/s41593-019-0393-4</a>	21
80	人类大脑类器官移植	Vascularization and engraftment of transplanted human cerebral organoids in mouse cortex	DAVIAUD, N FRIEDMAN BRAIN INST	ENEURO 5 (6): - NOV-DEC 2018 <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6243198/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6243198/</a>	20
81	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 <a href="http://www.nature.com.psych.remote">http://www.nature.com.psych.remote</a>	19



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82	综述: 小血管疾病	Small vessel disease: mechanisms and clinical implications	WARDLAW, JM UNIVERSITY OF MUNICH	LANCET NEUROLOGY 18 (7): 684-696 JUL 2019 <a href="https://www.sciencedirect.com/science/article/pii/S1474442219300791">https://www.sciencedirect.com/science/article/pii/S1474442219300791</a>	18
83	大脑类器官	Cerebral organoids at the air-liquid interface generate diverse nerve tracts with functional output	GIANDOMENICO, SL	NATURE NEUROSCIENCE 22 (4): 669-+ APR 2019 <a href="https://www.nature.com/articles/s41593-019-0350-2">https://www.nature.com/articles/s41593-019-0350-2</a>	17
84	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 <a href="https://www.nature.com/psych.remote">http://www.nature.com/psych.remote</a> <a href="https://www.sciencedirect.com/science/article/pii/S1474442219300791">xs.cn/articles/s41593-019-0422-3</a>	17

85	老年个体工作记忆的改善与脑环路节律同步	Working memory revived in older adults by synchronizing rhythmic brain circuits	REINHART, RMG BOSTON UNIVERSITY	NATURE NEUROSCIENCE 22 (5): 820+ MAY 2019 <a href="https://www.nature.com/articles/s41593-019-0371-x">https://www.nature.com/articles/s41593-019-0371-x</a>	16
86	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 <a href="https://www.nature.com/articles/s41380-018-0094-5">https://www.nature.com/articles/s41380-018-0094-5</a>	16
87	$\beta$ 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 <a href="https://jamanetwork.com/journals/jamaneurology/fullarticle/2735107">https://jamanetwork.com/journals/jamaneurology/fullarticle/2735107</a>	14

88	精神分裂症患者皮层中间神经元改变与认知功能	Alterations in cortical interneurons and cognitive function in schizophrenia	DIENEL, SJ UNIVERSITY OF PITTSBURGH	NEUROBIOLOGY OF DISEASE 131: - SP. ISS. SI NOV 2019 <a href="https://www.sciencedirect.com/science/article/pii/S0969996118301992">https://www.sciencedirect.com/science/article/pii/S0969996118301992</a>	14
89	偏头痛的药物治疗	Phase 3 randomized, placebo-controlled, double-blind study of lasmiditan for acute treatment of migraine	GOADSBY, PJ UNIVERSITY OF LONDON	BRAIN 142: 1894-1904 PART 7 JUL 2019 <a href="https://academic.oup.com/brain/article/142/7/1894/5498736">https://academic.oup.com/brain/article/142/7/1894/5498736</a>	14
90	创新电极技术与神经元记录	Novel electrode technologies for neural recordings	HONG, GS HARVARD UNIVERSITY	NATURE REVIEWS NEUROSCIENCE 20 (6): 330-345 JUN 2019 <a href="https://www.nature.com/articles/s41583-019-0140-6">https://www.nature.com/articles/s41583-019-0140-6</a>	13

91	岛叶与恐惧行为	Insular cortex processes aversive somatosensory information and is crucial for threat learning	BERRET, E SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	SCIENCE 364 (6443): 850-+ MAY 31 2019 <a href="https://science.sciencemag.org/content/364/6443/eaaw0474.full">https://science.sciencemag.org/content/364/6443/eaaw0474.full</a>	12
92	$\beta$ 淀粉样蛋白与阿尔茨海默症	A vicious cycle of beta amyloid-dependent neuronal hyperactivation	ZOTT, B TECHNICAL UNIVERSITY OF MUNICH	SCIENCE 365 (6453): 559-+ AUG 9 2019 <a href="https://science.sciencemag.org/content/365/6453/559.full">https://science.sciencemag.org/content/365/6453/559.full</a>	11
93	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 <a href="https://www.nature.com/articles/s41586-019-1563-y">https://www.nature.com/articles/s41586-019-1563-y</a>	9
94	酒精使用障碍	Craving, cortisol and behavioral alcohol motivation responses to	BLAINE, SK YALE UNIVERSITY	ADDICTION BIOLOGY 24 (5): 1096-1108 SEP 2019	9

		stress and alcohol cue contexts and discrete cues in binge and non- binge drinkers		<a href="https://pubmed.ncbi.nlm.nih.gov/30091823/">https://pubmed.ncbi.nlm.nih.gov/30091823/</a>	
95	神经精神疾病的动物模型	The critical importance of basic animal research for neuropsychiatric disorders	BALE, TL HARVARD UNIV MEDICAL AFFILIATES	NEUROPSYCHOPHARMACOLOGY 44 (8): 1349-1353 JUL 2019 <a href="https://www.nature.com/articles/s41386-019-0405-9">https://www.nature.com/articles/s41386-019-0405-9</a>	8
96	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 <a href="https://www.tandfonline.com/doi/abs/10.1080/00207454.2019.1664512">https://www.tandfonline.com/doi/abs/10.1080/00207454.2019.1664512</a>	7

97	成瘾行为	The interaction of person-affect-cognition-execution (I-PACE) model for addictive behaviors: update, generalization to addictive behaviors beyond internet-use disorders, and specification of the process character of addictive behaviors	BRAND, M UNIVERSITY OF DUISBURG ESSEN	NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS 104: 1-10 SEP 2019 <a href="https://www.sciencedirect.com/science/article/pii/S0149763419303707">https://www.sciencedirect.com/science/article/pii/S0149763419303707</a>	7
98	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 <a href="https://www.nature.com/articles/s41593-019-0502-4">https://www.nature.com/articles/s41593-019-0502-4</a>	6
99	小脑的神经电刺激	Consensus paper: experimental neurostimulation of the cerebellum	MITERKO, LN BAYLOR COLLEGE OF MEDICINE	CEREBELLUM 18 (6): 1064-1097 DEC 2019 <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6888888/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6888888/</a>	5

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100	脑机接口与瘫痪患者	An exoskeleton controlled by an epidural wireless brain-machine interface in a tetraplegic patient: a proof-of-concept demonstration	BENABID, AL UNIVERSITE PARIS SACLAY	LANCET NEUROLOGY 18 (12): 1112-1122 DEC 2019 <a href="https://www.sciencedirect.com/science/article/pii/S1474442219303217">https://www.sciencedirect.com/science/article/pii/S1474442219303217</a>	5
101	多发性硬化症的药物治疗	Safety and efficacy of ozanimod versus interferon beta-1a in relapsing multiple sclerosis (radiance): a multicentre, randomised, 24-month, phase 3 trial	COHEN, JA VITA-SALUTE SAN RAFFAELE UNIVERSITY	LANCET NEUROLOGY 18 (11): 1021-1033 NOV 2019 <a href="https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(19)30238-8/fulltext">https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(19)30238-8/fulltext</a>	4
102	人类的色彩知觉	Cortical double-opponent cells and human color perception	SHAPLEY, R NEW YORK UNIVERSITY	CURRENT OPINION IN BEHAVIORAL SCIENCES 30: 1- 7 DEC 2019	4

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