

ESI 中神经科学与行为领域热点论文 信息推送

2017 年 5 月 第 3 期（总第 35 期）

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发布日期：2017 年 6 月 26 日

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——基于 2017 年 5 月更新数据

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

本期入榜文章是 2014 年 12 月至 2016 年 12 月发表的文章中, 在 2017 年 1 月和 2 月两个月内被引次数排名前千分之一的文章。数据更新时间为 2017 年 5 月 11 日。

本期发布神经科学与行为领域热点文章 89 篇, 其中首次入榜文章 34 篇。单篇最高被引 268 次, 最低被引 4 次。被引 268 次的文章由德国波恩大学 (University of Bonn) 的 Michael T Heneka 等人合作发表在 *The Lancet Neurology* 上, 标题为“Neuroinflammation in Alzheimers disease”, 是一篇关于阿尔茨海默症中的神经炎症的综述, 已经连续 3 期盘踞榜首。首次入榜的 34 篇中单篇最高被引 63 次的是加州大学洛杉矶分校 David Geffen 医学院 (David Geffen School of Medicine, University of California at Los Angeles) 的 Baljit S Khakh 和 Michael V Sofroniew 合作发表在 *Nature Neuroscience* 上的一篇文章, 标题为“Diversity of astrocyte functions and phenotypes in neural circuits”, 是一篇关于神经环路中星形胶质细胞功能多样性与相应表型变化的综述。

就研究主题而言, 本期有儿童肌张力障碍、儿科神经调制、Tau 蛋白 PET 成像等主题首次入榜, 另有首次入榜的文章值得关注, 如:

26: 运动障碍学会 (Movement Disorder Society) 提出帕金森氏病临床诊断标准;

40: ICD-11 中慢性痛 (Chronic Pain) 的分类;

48: 基于 PET 对 β 淀粉样蛋白沉积进行评估, 辅助诊断阿尔茨海默症及其他痴呆症;

58: 关于海马胰岛素抵抗 (Insulin Resistance, IR) 与认知障碍的综述;

78: Tau 蛋白 PET 成像;

81: 认知功能与神经精神障碍、生理健康之间共同的遗传学机制;

82: Tau 蛋白成像;

83: 儿科神经调制;

84: 儿科非侵入性神经调制临床试验;

88: 深部脑刺激治疗儿童肌张力障碍的综述。

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 2017 年 5 月更新的神经科学与行为领域热点论文

注：红色为首次入榜文章或领域；黑色在往期亦是热点文章。

序号	文章主题	题目	第一作者及其单位	出处及原文或摘要链接	单篇被引
1	综述：阿尔茨海默症中的神经炎症	Neuroinflammation in Alzheimers disease	HENEKA, MT NA-BASQUE FDN SCI IKERBASQUE	LANCET NEUROL 14 (4): 388-405 APR 2015 http://www.sciencedirect.com/science/article/pii/S1474442215700165	268
2	利用单细胞转录组分析技术 (single-cell RNA-Seq) 揭示小鼠皮层和海马的细胞类型	Cell types in the mouse cortex and hippocampus revealed by single-cell RNA-seq	ZEISEL, A KAROLINSKA INST	SCIENCE 347 (6226): 1138-1142 MAR 6 2015 http://www.sciencemag.org/content/347/6226/1138.abstract	221

3	综述：视神经脊髓炎谱系障碍（Neuromyelitis Optica Spectrum Disorders）的诊断标准	International consensus diagnostic criteria for neuromyelitis optica spectrum disorders	WINGERCHUK, DM CHILDRENS HOSP PHILADELPHIA	NEUROLOGY 85 (2): 177-189 JUL 14 2015 http://www.neurology.org/content/85/2/177.abstract	186
4	美国心脏协会（American Heart Association, AHA）/美国卒中协会（American Stroke Association, ASA）于 2015 年更新 2013 版急性缺血性卒中早期管理指导方针	2015 American Heart Association/American Stroke Association focused update of the 2013 guidelines for the early management of patients with acute ischemic stroke regarding endovascular treatment a guideline for healthcare professionals from the American Heart Association/American Stroke Association	POWERS, WJ	STROKE 46 (10): 3020-3035 OCT 2015 http://stroke.ahajournals.org/content/46/10/3020.short?source=mfr	153

5	综述：炎症在阿尔茨海默症发病机制中的角色	Immune attack: the role of inflammation in Alzheimer disease	HEPPNER, FL BIOGEN IDEC;UNIV ZURICH	NAT REV NEUROSCI 16 (6): 358-372 JUN 2015 http://www.nature.com/nrn/journal/v16/n6/full/nrn3880.html	149
6	阿尔茨海默症协会 (Alzheimer' s Association) 2015 年报告	Alzheimers association report 2015 Alzheimers disease facts and figures	——	ALZHEIMERS DEMENT 11 (3): 332-384 MAR 2015 https://www.ncbi.nlm.nih.gov/pubmed/25984581	147
7	美国心脏协会 (AMERICAN HEART ASSOCIATION) /美国中风协会(American Stroke Association): 自发性脑出血 (spontaneous intracerebral	Guidelines for the management of spontaneous intracerebral hemorrhage a guideline for healthcare professionals from the American Heart Association/American Stroke	HEMPHILL, JC HARVARD UNIV	STROKE 46 (7): 2032-2060 JUL 2015 http://stroke.ahajournals.org/content/46/7/2032.full	143

	hemorrhage)诊断与治疗的指导 方针	Association			
8	世界卫生组织：中枢神经系统 肿瘤分类说明（2016版）	The 2016 world health organization classification of tumors of the central nervous system: a summary	LOUIS, DN ASSIST PUBL HOSP MARSEILLE	ACTA NEUROPATHOL 131 (6): 803-820 JUN 2016 http://link.springer.com/article/10.1007%2Fs00401-016-1545-1	136
9	综述：针对脑、脊髓与神经根的 非侵入性电刺激与磁刺激的 临床实践基本原则	Non-invasive electrical and magnetic stimulation of the brain, spinal cord, roots and peripheral nerves: basic principles and procedures for routine clinical and research application. an updated report from an ifcn committee	ROSSINI, PM ASSISTANCE PUBLIQUE HOPITAUX PARIS	CLIN NEUROPHYSIOL 126 (6): 1071-1107 JUN 2015 http://www.sciencedirect.com/science/article/pii/S1388245715000711	129

10	肌萎缩性侧索硬化症 (Amyotrophic Lateral Sclerosis, ALS)	Exome sequencing in amyotrophic lateral sclerosis identifies risk genes and pathways	CIRULLI, ET BIOGEN IDEC	SCIENCE 347 (6229): 1436-1441 MAR 27 2015 http://science.sciencemag.org/content/347/6229/1436	128
11	宿主微生物群调控中枢神经系统小胶质细胞的成熟与功能	Host microbiota constantly control maturation and function of microglia in the CNS	ERNY, D HARVARD UNIV	NAT NEUROSCI 18 (7): 965-+ JUL 2015 http://www.nature.com/neuro/journal/v18/n7/abs/nn.4030.html	117
12	2008-2012 年美国原发性脑与中枢神经系统肿瘤流行病学调查	CBTRUS statistical report: primary brain and central nervous system tumors diagnosed in the united states in 2008-2012	OSTROM, QT CASE WESTERN RESERVE UNIV	NEURO-ONCOLOGY 17: 1-62 SUPPL. 4 OCT 2015 http://neuro-oncology.oxfordjournals.org/content/17/suppl_4/iv1.extract	114

13	α-突触核蛋白 (α-synuclein) 聚集物的结构及形状的不同, 导致个体是否患帕金森氏病或多系统萎缩症 (Multiple System Atrophy)	Alpha-synuclein strains cause distinct synucleinopathies after local and systemic administration	PEELAERTS, W CNRS	NATURE 522 (7556): 340-+ JUN 18 2015 http://www.ncbi.nlm.nih.gov/pubmed/26061766	113
14	综述: 恐惧与焦虑的神经环路	Neuronal circuits for fear and anxiety	TOVOTE, P FRIEDRICH MIESCHER INST BIOMED RES	NAT REV NEUROSCI 16 (6): 317-331 JUN 2015 http://www.nature.com/nrn/journal/v16/n6/full/nrn3945.html	92
15	淀粉样级联假说 (Amyloid Cascade Hypothesis)	The case for rejecting the amyloid cascade hypothesis	HERRUP, K HONG KONG UNIV SCI & TECHNOL	NAT NEUROSCI 18 (6): 794- 799 JUN 2015 http://www.nature.com/neuro/journal/v18/n6/full/nrn3945.html	81

				urnal/v18/n6/full/nn.4017.html	
16	综述：星形胶质细胞（Astrocyte）在中枢神经系统炎症反应和病变中的作用	Astrocyte barriers to neurotoxic inflammation	SOFRONIEW, MV UNIV CALIF LOS ANGELES	NAT REV NEUROSCI 16 (5): 249-263 MAY 2015 http://www.nature.com/nrn/journal/v16/n5/abs/nrn3898.html	75
17	综述：应激的神经机制	Mechanisms of stress in the brain	MCEWEN, BS ROCKEFELLER UNIV	NAT NEUROSCI 18 (10): 1353-1363 OCT 2015 http://www.nature.com/neuro/journal/v18/n10/abs/nn.4086.html	74
18	综述：阿尔茨海默症与帕金森氏症	Alzheimers and parkinsons diseases: the prion concept in relation to	GOEDERT, M MRC LAB MOL BIOL	SCIENCE 349 (6248): - AUG 7 2015	74

		assembled a beta, tau, and alpha-synuclein		http://science.sciencemag.org/content/349/6248/1255555	
19	帕金森氏病与肠道微生物群	Gut microbiota are related to parkinsons disease and clinical phenotype	SCHEPERJANS, F HELSINKI UNIV CENT HOSP	MOVEMENT DISORD 30 (3): 350-358 MAR 2015 http://onlinelibrary.wiley.com/doi/10.1002/mds.26069/abstract	71
20	自闭症谱系障碍	Insights into autism spectrum disorder genomic architecture and biology from 71 risk loci	SANDERS, SJ BAYLOR COLL MED	NEURON 87 (6): 1215-1233 SEP 23 2015 http://www.sciencedirect.com/science/article/pii/S0896627315007734	71

21	认知的节律	Rhythms for cognition: communication through coherence	FRIES, P MAX PLANCK SOCIETY	NEURON 88 (1): 220-235 OCT 7 2015 http://www.sciencedirect.com/science/article/pii/S0896627315008235	70
22	癫痫持续状态 (Status Epilepticus) 的定义与分类	A definition and classification of status epilepticus - report of the ilae task force on classification of status epilepticus	TRINKA, E ALBERT EINSTEIN COLL MED	EPILEPSIA 56 (10): 1515-1523 OCT 2015 http://www.iicms.ie/attachments/article/49/Classification%20of%20SE.pdf	69
23	综述: 神经环路中星形胶质细胞功能多样性与相应表型变化	Diversity of astrocyte functions and phenotypes in neural circuits	KHAKH, BS UNIV CALIF LOS ANGELES	NAT NEUROSCI 18 (7): 942-952 JUL 2015	63

				http://www.nature.com/neuro/journal/v18/n7/full/nn.4043.html	
24	综述：阿尔茨海默症的免疫疗法	Immunotherapeutic approaches for Alzheimers disease	WISNIEWSKI, T NEW YORK UNIV	NEURON 85 (6): 1162-1176 MAR 18 2015 http://www.sciencedirect.com/science/article/pii/S0896627314011738	63
25	机体降解氯胺酮（Ketamine）产生的一种代谢物可能是它抗抑郁作用迅速起效的真正原因	NMDAR inhibition-independent antidepressant actions of ketamine metabolites	ZANOS, P MITCHELL WOODS PHARMACEUT	NATURE 533 (7604): 481-+ MAY 26 2016 http://www.nature.com/nature/journal/v533/n7604/full/nature17998.html	59

26	运动障碍学会 (Movement Disorder Society) 提出帕金森氏病临床诊断标准	MDS clinical diagnostic criteria for parkinsons disease	POSTUMA, RB ASSISTANCE PUBLIQUE HOPITAUX PARIS	MOVEMENT DISORD 30 (12): 1591-1599 OCT 2015 http://onlinelibrary.wiley.com/doi/10.1002/mds.26424/full	57
27	fMRI 分析中涉及到的一些基本算法会产生假阳性“信号”，并且发生频率较高	Cluster failure: why fMRI inferences for spatial extent have inflated false-positive rates	EKLUND, A LINKOPING UNIV	PROC NAT ACAD SCI USA 113 (28): 7900-7905 JUL 12 2016 http://www.pnas.org/content/113/28/7900.full	55
28	阿尔茨海默氏症早期突触丧失机制	Complement and microglia mediate early synapse loss in Alzheimer mouse models	HONG, S NA-ALECTOR INC	SCIENCE 352 (6286): 712-716 MAY 6 2016 http://science.sciencemag.org/content/352/6286/712	55

29	海马神经元尖波 (Sharp Wave Ripples) 与情景记忆 (Episodic Memory)	Hippocampal sharp wave-ripple: a cognitive biomarker for episodic memory and planning	BUZSAKI, G NEW YORK UNIV	HIPPOCAMPUS 25 (10): 1073-1188 SP. ISS. SI OCT 2015 http://onlinelibrary.wiley.com/doi/10.1002/hipo.22488/abstract	53
30	哺乳动物神经系统性别化与 DNA 甲基化	Brain feminization requires active repression of masculinization via DNA methylation	NUGENT, BM MT SINAI SCH MED	NAT NEUROSCI 18 (5): 690-+ MAY 2015 http://www.nature.com/neuro/journal/v18/n5/full/nn.3988.html	52
31	综述: 鼻内给催产素	Intranasal oxytocin: myths and delusions	LENG, G UNIV EDINBURGH	BIOL PSYCHIAT 79 (3): 243-250 FEB 1 2016 http://www.sciencedirect.com/science/article/pii/S000632231500	52

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				<u>400X</u>	
32	小胶质细胞 (Microglia) 和 tau 蛋白病理性聚集在阿尔茨海默症中的作用	Depletion of microglia and inhibition of exosome synthesis halt tau propagation	ASAI, H BOSTON UNIV	NAT NEUROSCI 18 (11): 1584-1593 NOV 2015 http://www.nature.com/neuro/journal/v18/n11/full/nn.4132.html	52
33	在离体阿尔茨海默症脑组织中, 利用 PET 示踪剂研究 tau 蛋白病理性缠结	Validating novel tau positron emission tomography tracer [f-18]-av-1451 (t807) on postmortem brain tissue	MARQUIE, M HARVARD UNIV	ANN NEUROL 78 (5): 787-800 NOV 2015 http://onlinelibrary.wiley.com/doi/10.1002/ana.24517/full	50

34	M1 型和 M2 型小神经胶质细胞在神经退行性病变中的作用	Differential roles of m1 and m2 microglia in neurodegenerative diseases	TANG, Y CHINESE ACAD SCI	MOL NEUROBIOL 53 (2): 1181-1194 MAR 2016 http://link.springer.com/article/10.1007%2Fs12035-014-9070-5	50
35	重性抑郁症患者粪便微生物组成发生改变	Altered fecal microbiota composition in patients with major depressive disorder	JIANG, HY NA-HUZHOU CENT HOSP	BRAIN BEHAV IMMUN 48: 186-194 AUG 2015 http://www.sciencedirect.com/science/article/pii/S0889159115001105	48
36	PET 可以用于监测阿尔茨海默症中 tau 蛋白病理学恶化, 以及老年人临床症状的出现	Tau positron emission tomographic imaging in aging and early Alzheimer disease	JOHNSON, KA HARVARD UNIV	ANN NEUROL 79 (1): 110-119 JAN 2016 http://onlinelibrary.wiley.com/doi/10.1002/ana.24546/abstract	45

37	阿尔茨海默症中 A β 斑块的沉积	The antibody aducanumab reduces a beta plaques in Alzheimers disease	SEVIGNY, J BIOGEN IDEC	NATURE 537 (7618): 50-56 SEP 1 2016 http://www.nature.com/nature/journal/v537/n7618/full/nature19323.html	45
38	星形胶质细胞瘢痕组织帮助轴突再生	Astrocyte scar formation aids central nervous system axon regeneration	ANDERSON, MA SWISS FED INST TECHNOL LAUSANNE	NATURE 532 (7598): 195-+ APR 14 2016 http://www.nature.com/nature/journal/v532/n7598/abs/nature17623.html	45

39	星形胶质细胞 (Astrocyte)	Purification and characterization of progenitor and mature human astrocytes reveals transcriptional and functional differences with mouse	ZHANG, Y KAISER PERMANENTE MED CTR	NEURON 89 (1): 37-53 JAN 6 2016 http://www.sciencedirect.com/science/article/pii/S0896627315010193	40
40	ICD-11 中慢性痛 (Chronic Pain) 的分类	A classification of chronic pain for ICD-11	TREEDE, RD AARHUS UNIV	PAIN 156 (6): 1003-1007 JUN 2015 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4450869/	40
41	综述: 皮质醇觉醒反应 (Cortisol Awakening Response) 的评估	Y assessment of the cortisol awakening response: expert consensus guidelines	STALDER, T MCGILL UNIV	PSYCHONEUROENDOCRINOLOGY 63: 414-432 JAN 2016 http://www.sciencedirect.com/sc	38

				ience/article/pii/S0306453015009580	
42	脑蛋白质组学研究	Cell type- and brain region-resolved mouse brain proteome	SHARMA, K MAX PLANCK SOCIETY	NAT NEUROSCI 18 (12): 1819-1831 DEC 2015 http://www.nature.com/neuro/journal/v18/n12/full/nn.4160.html	38
43	欧洲将击败阿尔茨海默症及其他痴呆症视为重大优先级任务	Defeating Alzheimers disease and other dementias: a priority for European science and society	WINBLAD, B NA-ALZHEIMER EUROPE	LANCET NEUROL 15 (5): 455-532 APR 2016 http://thelancet.com/pdfs/journals/laneur/PIIS1474-4422(16)00062-4.pdf	38
44	难治性癫痫 (Treatment-Resistant Epilepsy)	Cannabidiol in patients with treatment-resistant epilepsy: an open-label	DEVINSKY, O ANN & ROBERT H LURIE	LANCET NEUROL 15 (3): 270-278 MAR 2016	38

		interventional trial	CHILDRENS HOSP CHICAGO	http://www.sciencedirect.com/science/article/pii/S1474442215003798	
45	自体免疫性脑炎（Autoimmune Encephalitis）的临床诊断	A clinical approach to diagnosis of autoimmune encephalitis	GRAUS, F CHARITE MED UNIV BERLIN	LANCET NEUROL 15 (4): 391-404 APR 2016 http://www.sciencedirect.com/science/article/pii/S1474442215004019	36
46	性别差异与脑结构和脑连接	Sex beyond the genitalia: the human brain mosaic	JOEL, D MAX PLANCK SOCIETY	PROC NAT ACAD SCI USA 112 (50): 15468-15473 DEC 15 2015 http://people.socsci.tau.ac.il/mu/daphnajoel/files/2016/02/Joel2015_PNAS_TextSI.pdf	34

47	神经回路调控的急性脱靶效应	Acute off-target effects of neural circuit manipulations	OTCHY, TM HARVARD UNIV	NATURE 528 (7582): 358-+ DEC 17 2015 http://www.nature.com/nature/journal/v528/n7582/full/nature16442.html	33
48	基于 PET 对 β 淀粉样蛋白沉积进行评估, 辅助诊断阿尔茨海默症及其他痴呆症	Florbetaben PET imaging to detect amyloid beta plaques in Alzheimers disease: phase 3 study	SABRI, O BANNER HEALTH	ALZHEIMERS DEMENT 11 (8): 964-974 AUG 2015 http://www.sciencedirect.com/science/article/pii/S1552526015000606	33
49	特定药物专一性地激活特定受体技术 (Designer Receptors Exclusively Activated by Designer Drugs, DREADD)	Dreadds for neuroscientists	ROTH, BL UNIV N CAROLINA CHAPEL HILL	NEURON 89 (4): 683-694 FEB 17 2016 http://www.sciencedirect.com/science/article/pii/S0896627316000659	33

50	欧洲神经内分泌肿瘤协会 (ENETS) 更新转移性疾病 (Metastatic Disease) 管理的指导方针	Enets consensus guidelines update for the management of distant metastatic disease of intestinal, pancreatic, bronchial neuroendocrine neoplasms (nen) and nen of unknown primary site	PAVEL, M CHARITE MED UNIV BERLIN	NEUROENDOCRINOLOGY 103 (2): 172-185 2016 http://www.grupponet.it/Documenti/15-Metastatic%20disease%20and%20UP%20ENETS%202016.pdf	32
51	临床前期阿尔茨海默症	Preclinical Alzheimers disease: definition, natural history, and diagnostic criteria	DUBOIS, B NA-ALZHEIMERS ASSOC DIV MED & SCI RELAT	ALZHEIMERS DEMENT 12 (3): 292-323 MAR 2016 http://www.sciencedirect.com/science/article/pii/S1552526016000509	30

52	小神经胶质细胞与年老相关神经退行性病变	Microglial brain region-dependent diversity and selective regional sensitivities to aging	GRABERT, K BBSRC ROSLIN INST	NAT NEUROSCI 19 (3): 504-+ NAT NEUROSCI 19 (3): 504-+ MAR 2016 http://www.nature.com/neuro/journal/v19/n3/full/nn.4222.html	30
53	综述：应激对海马、杏仁核及前额叶等脑区的影响	Stress effects on neuronal structure: hippocampus, amygdala, and prefrontal cortex	MCEWEN, BS ROCKEFELLER UNIV	NEUROPSYCHOPHARMACOLOGY 41 (1): 3-23 JAN 2016 http://www.nature.com/npp/journal/v41/n1/full/npp2015171a.html	29
54	元分析：脑脊液和血液中的生物学标记物在阿尔兹海默症诊断	CSF and blood biomarkers for the diagnosis of Alzheimers disease: a	OLSSON, B ALZFORUM	LANCET NEUROL 15 (7): 673-684 JUN 2016	27

	断中的角色	systematic review and meta-analysis		http://www.sciencedirect.com/science/article/pii/S1474442216000703	
55	综述：从统计和方法学角度讨论鼻内给催产素的研究	Statistical and methodological considerations for the interpretation of intranasal oxytocin studies	WALUM, H EMORY UNIV	BIOL PSYCHIAT 79 (3): 251-257 FEB 1 2016 http://www.sciencedirect.com/science/article/pii/S0006322315005223	26
56	DNA 甲基化数量性状基因位点 (Methylation Quantitative Trait Loci, mQTLs) 与脑发育及精神分裂症	Methylation QTLs in the developing brain and their enrichment in schizophrenia risk loci	HANNON, E CARDIFF UNIV	NAT NEUROSCI 19 (1): 48+ JAN 2016 http://www.nature.com/neuro/journal/v19/n1/abs/nn.4182.html	26

57	认知并不影响知觉	Cognition does not affect perception: evaluating the evidence for top-down effects	FIRESTONE, C YALE UNIV	BEHAV BRAIN SCI 39: - 2016 https://faculty.biu.ac.il/~barlab/papers/2017%20OCallaghan.pdf	25
58	综述: 海马胰岛素抵抗 (Insulin Resistance, IR) 与认知障碍	Hippocampal insulin resistance and cognitive dysfunction	BIESSELS, GJ UNIV S CAROLINA	NAT REV NEUROSCI 16 (11): 660-671 NOV 2015 http://www.nature.com/nrn/journal/v16/n11/abs/nrn4019.html	25
59	人类大脑皮层图谱	A multi-modal parcellation of human cerebral cortex	GLASSER, MF IMPERIAL COLL LONDON	NATURE 536 (7615): 171-+ AUG 11 2016 http://www.nature.com/nature/journal/v536/n7615/full/nature18933.html	25
60	肠道微生物组与抑郁	Gut microbiome remodeling induces	ZHENG, P	MOL PSYCHIATR 21 (6): 786-	24

		depressive-like behaviors through a pathway mediated by the hosts metabolism	CHONGQING KEY LAB NEUROBIOL	796 JUN 2016 http://www.nature.com/mp/journal/v21/n6/full/mp201644a.html	
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