

ESI 中心理学及相关领域热点分析

——基于 2011 年 9 月更新数据

ESI (Essential Science Indicators) 为基于 Web of Science 数据建立的分析型数据库。每期 ESI 会公布其 22 个学科领域中最近两个月内产生的热点文章，只有近两个月内被引次数高居前千分之一的近两年内发表的文章才能算作 ESI 热点论文，数据每两个月更新一次。ESI 中与心理学关系密切的领域有精神病/心理学和神经科学与行为。2011 年 9 月更新后，精神病学/心理学领域的热点文章有 52 篇，其中划分了所属研究前沿的有 10 篇（详见附录 1），没有划分研究前沿的有 42 篇（详见附录 2）。神经科学与行为领域的热点文章有 57 篇，其中划分了所属研究前沿的有 7 篇（详见附录 3），没有划分研究前沿的有 50 篇（详见附录 4）。

1. 精神病/心理学领域热点论文的主题分析

该领域热点论文可总结为 25 个主题（详细信息见表 1）。童年逆境与成年精神病关系的大样本调查、长链 omega-3 脂肪酸在预防精神病中的作用、精神疾病的临床分期模型，以及精神分裂症、孤独症和精神发育迟滞中的突触和神经发育基因的重组及其共享生物学路径等主题，以共计 181 次的引用突显了精神疾病研究所受到的高度关注。

抑郁症一直以来是精神病/心理学领域研究的重点。研究角度涉及重症抑郁症的全基因组相关研究、药物治疗、以及抑郁与肥胖症的共病等。在针对抑郁的 6 篇热点文章中，一半与抗抑郁治疗有关。其中，来自哥伦比亚大学医学中心和纽约州立精神病研究所的 Olsson 博士和宾夕法尼亚大学社会政策与实践学院的 Marcus 博士研究了 1996 至 2005 年美国抗抑郁药物治疗的社会统计学情况以及临床模式，文章发表在 *Archives of General Psychiatry* 上。

精神分裂症的流行病学、预防、治疗和预后等也是热点主题。其中，NIMH 的 Insel 博士发表在 *Nature* 上的题为“重新思考精神分裂症 (Rethinking schizophrenia)”的文章指出，精神分裂症在当今世界范围内依然发病机制不明，同时治疗效果十分有限。如果我们能从神经发育角度来解读它，把它看作是可预防的精神疾病，其预后可能会有所改善。这一角度可能具有开拓性意义。

值得一提的是，有两篇论文单篇引用率很高。NimStim 表情库在最近获得了

最高的关注度（105 次）。该项目旨在给没有受过训练的实验参与者提供可辨别的面部表情。该表情库数目巨大、覆盖多种族且易获取，被试间一致性较高。另外一篇是发表在 *Journal of Personality and Social Psychology* 上的有关内隐联结测试（Implicit association test）预测效度的综述。

此外，压力和环境易感性、视觉的选择与调控、循证实践、心境和情感对感觉与认知的调节等也受到较多关注。

表 1: 基于 ESI 2011 年 9 月更新的热点论文分析出的精神病学/心理学领域 25 个研究主题

研究主题	包含文章篇数	总计被引次数
精神疾病研究（大样本调查、预防、药物治疗、临床分期模型、基因与遗传、神经生物）	8	181
抑郁症（基因、药物治疗、与其他疾病共病、元分析、全基因组相关研究）	6	148
易感性（5-HTT 在压力易感性中的作用、环境易感性）	2	126
NimStim 项目（可识别的面部表情）	1	105
内隐测试（元分析）	1	103
认知储备的神经基础	1	77
工业与组织（工作要求-资源模型、职场决策、绩效管理、领导力、职业身份）	5	73
统计学方法（统计功效分析、因果调节分析）	2	64
循证实践（系统-环境角度、循证心理治疗疗效评估、在工业与组织心理学中的应用）	3	60
精神分裂症（流行病学与转化型研究、从神经发育紊乱角度重新思考精分、治疗与预防、预后）	4	52
歧视与身心健康（元分析）	1	41
联合行动（在预测他人行为以及增加社会联系中的作用）	2	29
视觉的选择与调控	1	20
文化渗透	1	20
性唤醒主客观测量的评估（元分析）	1	17
自我损耗模型（元分析）	1	16
情绪与认知（心境、情感等对感觉与认知的调节）	3	16
无意识意志（在无意识层面上目标启动行动的可能机制）	1	15
生物学与心理学关系	1	14
合作（竞争中合作的效果、参与者的表征）	2	14
情绪智力的相关概念	1	12
任务切换中的认知控制与任务冲突	1	9
注意缺陷/多动症的全基因组相关研究（元分析）	1	8
食物成瘾与肥胖症	1	8
临床会谈在评估癌症患者的精神痛苦中的作用	1	4

2. 神经科学与行为领域热点论文的主题分析

该领域的热点论文可总结为 28 个主题（详细信息见表 2）。有关阿尔茨海默症、莫旺氏综合征、获得性神经性肌强直、多发性硬化症、失语症等神经系统疾病的 9 篇文章获得较高关注。其中，华盛顿大学医学院阿尔茨海默症研究中心的研究人员发表在 *Neuron* 上的关于载脂蛋白 E 在该病中的可能作用的文章单篇获得较高引用（97）。

突触可塑性和神经元可塑性以及前者与记忆的关系等神经系统可塑性的研究也是热点主题之一。其中由瑞士和美国科研人员合作完成、发表在 *Nature Reviews Neuroscience* 上、有关最新的哺乳动物皮层突触可塑性的结构形态证据的综述，单篇被引频次较高。

对额叶和顶叶的研究，包括从神经药理学角度考察额叶的执行功能、顶叶在注意和意向中的角色以及顶额叶镜像环路（Parieto-Frontal mirror circuit）等，以及记忆的退化与改善、决策可能的神经生物学机制、精神分裂症中异常神经元震荡、杏仁核在社会认知中的作用等也都是热点主题。

表 2: 基于 BSI 2011 年 9 月更新的热点论文分析出的神经科学与行为领域 28 个研究主题

综合后的研究方向	包含文章篇数	总计被引次数
神经系统疾病（阿尔茨海默症、边缘系统脑炎、莫旺氏综合征、获得性神经性肌强直、多发性硬化症、肌萎缩性脊髓侧索硬化、失语症）	9	214
额颞叶及神经系统的退行性病变	3	183
可塑性（突触、神经元层面）	4	143
神经干细胞（干细胞分化、移植）	2	127
额、顶叶（额叶的神经药理学研究、顶额叶镜像环路、顶叶参与的认知功能等）	3	122
癫痫（相关术语的修订、耐药性癫痫的定义）	2	91
参与语义加工的皮层（神经影像的元分析）	1	89
皮层计算（CORTICAL COMPUTATION）的基本过程	1	69
睡眠的记忆功能	1	67
基于 fMRI 的中枢网络（基于 fMRI 的脑功能研究、网络模型建立方法）	2	62
发育（神经元发育、胚胎发育）	2	58
记忆（记忆退化、长时程记忆、记忆的改善）	3	51
斑马鱼行为实验在精神药理学方面的应用	1	45
决策的神经生物学机制	1	45
神经影像元分析技术	1	42
多种行为科学数据的跨文化比较	1	42
神经元形态学（3-D 影像与追踪技术）	7	40

Dnmt1 和 Dnmt3a 在调节突触功能中的作用	1	40
精神分裂症中异常的神经元震荡与同步化	1	39
脑连接的复杂网络分析方法	1	39
重症抑郁中的细胞因子（元分析）	1	38
神经胶质细胞（分化潜能、限制性分化、起源）	3	32
从神经经济学和奖赏角度整合杏仁核在社会认知中的作用	1	22
互动行为的神经机制	1	15
发声学习的规则及其神经、分子水平基础	1	10
视皮层神经元的网络解剖与在体生理学	1	5
恶性神经胶质瘤切除术	1	4
关于基底核—上丘通路在眼动中作用的新观点	1	4

附录 1

2011 年 9 月更新的 ESI-精神病学/心理学领域近两年热点论文中划分了研究前沿的 10 篇文章

Fronts	前沿【翻译】	Title	Citation	First Author	First Institute	Source
SINGLE CATEGORY IMPLICIT ASSOCIATION TEST; IMPLICIT ATTITUDES; IMPLICIT SOCIAL COGNITION; IMPLICIT BIAS; EVALUATIVE CONDITIONING CHANGE ATTITUDES	单分类内隐联想测试; 内隐态度; 内隐社会认知; 内隐偏差; 评价性条件反射改变态度(即通过将条件刺激与一个已知可以激发出一定情绪性反应的刺激连续配对,就可以使前者获得与后者一样的情感性评价,进而改变对某事物的态度。)	UNDERSTANDING AND USING THE IMPLICIT ASSOCIATION TEST: III. META-ANALYSIS OF PREDICTIVE VALIDITY	103	GREENWALD AG	Univ Washington	J PERSONAL SOC PSYCHOL
ADULT PSYCHIATRIC DISORDERS; NATIONAL COMORBIDITY SURVEY REPLICATION I ASSOCIATIONS; NATIONAL COMORBIDITY SURVEY REPLICATION II ASSOCIATIONS; DSM-IV DISORDERS; CHILDHOOD ADVERSITIES	成人精神病; 第一次美国国家共病调查; 第二次美国国家共病调查; 美国精神疾病诊断与统计手册第四版疾病; 童年逆境	CHILDHOOD ADVERSITIES AND ADULT PSYCHIATRIC DISORDERS IN THE NATIONAL COMORBIDITY SURVEY REPLICATION I ASSOCIATIONS WITH FIRST ONSET OF DSM-IV DISORDERS	44	GREEN JG	Harvard Univ	ARCH GEN PSYCHIAT

ULTRA HIGH RISK (PRODROMAL) SERVICES; HIGH CLINICAL RISK; UNTREATED PSYCHOSIS; FIRST PSYCHOSIS; PSYCHOSIS STUDY	超高风险（前驱）服务；高临床风险；未处理的精神病；首发精神病；精神病研究	LONG-CHAIN OMEGA-3 FATTY ACIDS FOR INDICATED PREVENTION OF PSYCHOTIC DISORDERS A RANDOMIZED, PLACEBO-CONTROLLED TRIAL	44	AMMINGER GP	Orygen Youth Hlth Res Ctr, Melbourne, Australia.	ARCH GEN PSYCHIAT
SELF-REPORTED RACIAL DISCRIMINATION; POPULATION HEALTH RESEARCH; PERCEIVED DISCRIMINATION; HEALTH OUTCOMES; PEER DISCRIMINATION	自我报告的种族歧视；人口健康研究；歧视知觉；健康结果；同辈歧视	PERCEIVED DISCRIMINATION AND HEALTH: A META-ANALYTIC REVIEW	41	PASCOE EA	Duke Univ	PSYCHOL BULL
SEROTONIN TRANSPORTER GENE PROMOTER POLYMORPHISM (5-HTTLPR) ASSOCIATION; TRIALLELIC SEROTONIN TRANSPORTER GENE PROMOTER REGION (5-HTTLPR) POLYMORPHISM; SEROTONIN TRANSPORTER GENE LINKED POLYMORPHIC REGION (5-HTTLPR)	5 羟色胺转运体基因启动子区多态性（5-HTTLPR）关联；三等位基因的 5 羟色胺转运体基因启动子区（5-HTTLPR）多态性；5 羟色胺转运体基因连锁多态性区域（5-HTTLPR）	PROTECTIVE EFFECT OF CRHR1 GENE VARIANTS ON THE DEVELOPMENT OF ADULT DEPRESSION FOLLOWING CHILDHOOD MALTREATMENT REPLICATION AND EXTENSION	28	POLANCZYK G	Duke Univ	ARCH GEN PSYCHIAT
CHILDREN-ADOLESCENTS EVIDENCE-BASED TREATMENT	儿童-青少年循证治疗应用；循证实践；	TRAINING THERAPISTS IN EVIDENCE-BASED	26	BEIDAS RS	Temple Univ	CLIN PSYCHOL-SCI

APPLICATIONS; EVIDENCE-BASED PRACTICE; 615 TREATMENTS; 322 RANDOMIZED TRIALS; MATCHING MODEL	615 个治疗范式; 322 个随机实验序列; 匹 配模型	PRACTICE: A CRITICAL REVIEW OF STUDIES FROM A SYSTEMS-CONTEXTUAL PERSPECTIVE				PRACTICE
EATING DISORDER PATIENT TRANSDIAGNOSTIC COGNITIVE-BEHAVIORAL THERAPY 60-WEEK FOLLOW-UP TRIAL; FUNCTIONAL MRI STUDY; GENERALIZED ANXIETY DISORDER; EVIDENCE-BASED PSYCHOLOGICAL TREATMENTS	对进食障碍患者进行 的为期 60 周的跨诊断 的纵向认知行为治疗 研究; 功能磁共振研 究; 广泛性焦虑障碍; 循证心理治疗	THE DISSEMINATION AND IMPLEMENTATION OF EVIDENCE-BASED PSYCHOLOGICAL TREATMENTS	22	MCHUGH RK	Boston Univ	AMER PSYCHOL
VISUAL SELECTION; TOP-DOWN; BOTTOM-UP CONTROL; CONTINGENT CAPTURE; WHAT	视觉选择; 自上而下; 自下而上调控; 有条 件的注意捕获;	TOP-DOWN AND BOTTOM-UP CONTROL OF VISUAL SELECTION	20	THEEUWES J	Vrije Univ Amsterdam	ACTA PSYCHOL
SOCIAL CONTEXT FACILITATES SYNCHRONIZATION; JOINT ACTION; INTERPERSONAL SYNCHRONY INCREASES AFFILIATION; UNINTENTIONAL INTERPERSONAL COORDINATION; JOINT DRUMMING	社会环境有利于同步 化; 联合行动; 人际 间的同步性加强联 系; 无意识的人际协 调; 联合击鼓	PREDICTION IN JOINT ACTION: WHAT, WHEN, AND WHERE	19	SEBANZ N	Radboud Univ Nijmegen	TOP COGN SCI
		SOCIAL CONNECTION THROUGH JOINT ACTION AND INTERPERSONAL COORDINATION	10	MARSH KL	Univ Connecticut	TOP COGN SCI

附录 2

2011 年 9 月更新的 ESI-精神病学/心理学领域近两年热点论文中未给出研究前沿信息的 42 篇文章

Title	Citation	First Author	First Institute	Source
THE NIMSTIM SET OF FACIAL EXPRESSIONS: JUDGMENTS FROM UNTRAINED RESEARCH PARTICIPANTS	105	TOTTENHAM N	Weill Cornell Med Coll	PSYCHIAT RES
COGNITIVE RESERVE	77	STERN Y	Columbia Univ	NEUROPSYCHOLOGIA
GENETIC SENSITIVITY TO THE ENVIRONMENT: THE CASE OF THE SEROTONIN TRANSPORTER GENE AND ITS IMPLICATIONS FOR STUDYING COMPLEX DISEASES AND TRAITS	73	CASPI A	Duke Univ	AMER J PSYCHIAT
STATISTICAL POWER ANALYSES USING G*POWER 3.1: TESTS FOR CORRELATION AND REGRESSION ANALYSES	60	FAUL F	Univ Mannheim	BEHAV RES METHODS
BEYOND DIATHESIS STRESS: DIFFERENTIAL SUSCEPTIBILITY TO ENVIRONMENTAL INFLUENCES	53	BELSKY J	Birkbeck Univ London	PSYCHOL BULL
NATIONAL PATTERNS IN ANTIDEPRESSANT MEDICATION TREATMENT	52	OLFSON M	Columbia Univ	ARCH GEN PSYCHIAT
OVERWEIGHT, OBESITY, AND DEPRESSION A SYSTEMATIC REVIEW AND META-ANALYSIS OF LONGITUDINAL STUDIES	42	LUPPINO FS	Leiden Univ	ARCH GEN PSYCHIAT
RECURRENT REARRANGEMENTS IN SYNAPTIC AND NEURODEVELOPMENTAL GENES AND SHARED BIOLOGIC PATHWAYS IN SCHIZOPHRENIA, AUTISM, AND MENTAL RETARDATION	40	GUILMATRE A	Inst Hosp Univ Rech Biomed	ARCH GEN PSYCHIAT
PRENATAL INFECTION AND SCHIZOPHRENIA: A REVIEW OF EPIDEMIOLOGIC AND TRANSLATIONAL STUDIES	36	BROWN AS	Columbia Univ	AMER J PSYCHIAT
HOW CHANGES IN JOB DEMANDS AND RESOURCES PREDICT BURNOUT, WORK ENGAGEMENT, AND SICKNESS	23	SCHAUFELI WB	Univ Utrecht	J ORGAN BEHAV

ABSENTEEISM				
GENOME-WIDE PHARMACOGENETICS OF ANTIDEPRESSANT RESPONSE IN THE GENDEP PROJECT	22	UHER R	Kings Coll London	AMER J PSYCHIAT
RETHINKING THE CONCEPT OF ACCULTURATION IMPLICATIONS FOR THEORY AND RESEARCH	20	SCHWARTZ SJ	Univ Miami	AMER PSYCHOL
AGREEMENT OF SELF-REPORTED AND GENITAL MEASURES OF SEXUAL AROUSAL IN MEN AND WOMEN: A META-ANALYSIS	17	CHIVERS ML	Queens Univ	ARCH SEX BEHAV
INTERNATIONAL CONSENSUS STUDY OF ANTIPSYCHOTIC DOSING	16	GARDNER DM	Dalhousie Univ	AMER J PSYCHIAT
EGO DEPLETION AND THE STRENGTH MODEL OF SELF-CONTROL: A META-ANALYSIS	16	HAGGER MS	Univ Nottingham	PSYCHOL BULL
THE UNCONSCIOUS WILL: HOW THE PURSUIT OF GOALS OPERATES OUTSIDE OF CONSCIOUS AWARENESS	15	CUSTERS R	Univ Utrecht	SCIENCE
EFFICACY AND EFFECTIVENESS OF ANTIDEPRESSANTS: CURRENT STATUS OF RESEARCH	14	PIGOTT HE	NeuroAdvantage LLC	PSYCHOTHER PSYCHOSOM
WHAT IF INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY DECIDED TO TAKE WORKPLACE DECISIONS SERIOUSLY?	14	DALAL RS	George Mason Univ	IND ORGAN PSYCHOL
ON THE RELATIONSHIP BETWEEN BIOLOGY AND PSYCHOLOGY	14	JANCKE L	Univ Zurich	PSYCHOL RUNDSCH
WHY IS PERFORMANCE MANAGEMENT BROKEN?	13	PULAKOS ED	PDRI	IND ORGAN PSYCHOL
THE GENETICS OF AUTISM SPECTRUM DISORDERS AND RELATED NEUROPSYCHIATRIC DISORDERS IN CHILDHOOD	13	LICHTENSTEIN P	Karolinska Inst, Dept Med Epidemiol & Biostat, Stockholm, Sweden.	AMER J PSYCHIAT
A SYSTEMATIC REVIEW OF THE EFFECTS OF ANTIPSYCHOTIC	13	MONCRIEFF J	London's Global	PSYCHOL MED

DRUGS ON BRAIN VOLUME			University	
EVIDENCE-BASED I-O PSYCHOLOGY: NOT THERE YET	12	BRINER RB	Univ London	IND ORGAN PSYCHOL
RETHINKING SCHIZOPHRENIA	12	INSEL TR	NIMH	NATURE
GENOME-WIDE ASSOCIATION STUDY OF MAJOR RECURRENT DEPRESSION IN THE UK POPULATION	12	LEWIS CM	Kings Coll London	AMER J PSYCHIAT
RECASTING LEADERSHIP DEVELOPMENT	12	MCCALL MW	Univ So Calif	IND ORGAN PSYCHOL
EMOTIONAL INTELLIGENCE: TOWARD CLARIFICATION OF A CONCEPT	12	CHERNISS C	Rutgers State Univ	IND ORGAN PSYCHOL
ORGANIZATIONAL PSYCHOLOGY AND THE TIPPING POINT OF PROFESSIONAL IDENTITY	11	RYAN AM	Michigan State Univ	IND ORGAN PSYCHOL
SCHIZOPHRENIA, "JUST THE FACTS" 5. TREATMENT AND PREVENTION PAST, PRESENT, AND FUTURE	9	TANDON R	Univ Florida	SCHIZOPHR RES
CONTROL AND INTERFERENCE IN TASK SWITCHING-A REVIEW	9	KIESEL A	Univ Wurzburg	PSYCHOL BULL
META-ANALYSIS OF GENOME-WIDE ASSOCIATION STUDIES OF ATTENTION-DEFICIT/HYPERACTIVITY DISORDER	8	NEALE BM	SUNY Upstate Med Univ	J AMER ACAD CHILD ADOLESC PSY
FOOD ADDICTION AND OBESITY: EVIDENCE FROM BENCH TO BEDSIDE	8	LIU YJ	Univ Florida	J PSYCHOACTIVE DRUG
SHARED LEARNING SHAPES HUMAN PERFORMANCE: TRANSFER EFFECTS IN TASK SHARING	8	MILANESE N	Univ Modena & Reggio Emilia	COGNITION
CLINICAL STAGING: A HEURISTIC AND PRACTICAL STRATEGY FOR NEW RESEARCH AND BETTER HEALTH AND SOCIAL OUTCOMES FOR PSYCHOTIC AND RELATED MOOD	7	MCGORRY PD	Univ Melbourne	CAN J PSYCHIATRY

DISORDERS				
WHEN COMPETITION MERGES PEOPLE'S BEHAVIOR: INTERDEPENDENCY ACTIVATES SHARED ACTION REPRESENTATIONS	6	RUYS KI	Univ Utrecht	J EXP SOC PSYCHOL
SEEING OTHER MINDS: ATTRIBUTED MENTAL STATES INFLUENCE PERCEPTION	6	TEUFEL C	Univ Cambridge	TRENDS COGN SCI
IMPLICIT AFFECTIVE CUES AND ATTENTIONAL TUNING: AN INTEGRATIVE REVIEW	6	FRIEDMAN RS	SUNY Albany	PSYCHOL BULL
LIFETIME PREVALENCE OF MOOD AND ANXIETY DISORDERS IN FRAGILE X PREMUTATION CARRIERS	4	BOURGEOIS JA	McMaster Univ	J CLIN PSYCHIAT
OLANZAPINE IN REAL-WORLD USE AMONG 18,154 PATIENTS WITH SCHIZOPHRENIA: THE ZIPRASIDONE OBSERVATIONAL STUDY OF CARDIAC OUTCOMES (ZODIAC)	4	STROM BL	Univ Penn	AMER J PSYCHIAT
ASSESSMENT OF PSYCHOLOGICAL DISTRESS IN CANCER PATIENTS: A PIVOTAL ROLE FOR CLINICAL INTERVIEW	4	BONACCHI A	Univ Florence	PSYCHO-ONCOL
A GENERAL APPROACH TO CAUSAL MEDIATION ANALYSIS	4	IMAI K	Princeton Univ	PSYCHOL METHODS
THE EFFECT OF EMBODIED EMOTIVE STATES ON COGNITIVE CATEGORIZATION	4	PRICE TF	Texas A&M Univ	EMOTION

附录 3

2011 年 9 月更新的 ESI-神经科学与行为领域近两年热点论文中划分了研究前沿的 7 篇文章

Fronts	前沿【翻译】	Title	Citation	First Author	First Institute	Source
APOLIPOPROTEIN E; ALZHEIMER'S DISEASE; RECEPTORS; PATHWAYS; PATHOGENESIS	载脂蛋白 E; 阿耳茨海默氏病; 感受器; 通路; 发病机制	THE ROLE OF APOLIPOPROTEIN E IN ALZHEIMER'S DISEASE	97	KIM J	Washington Univ	NEURON
SPORADIC FRONTOTEMPORAL LOBAR DEGENERATION; PATHOLOGICAL TDP-43 DISTINGUISHES SPORADIC AMYOTROPHIC LATERAL SCLEROSIS; CHROMOSOME 16 CAUSE FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS; CAUSE FAMILIAL AMYOTROPHIC LATERAL SCLEROSIS TYPE 6	偶发性额颞叶变性; 病理性 TDP-43 辨别偶发性肌萎缩性脊髓侧索硬化症; 16 号染色体异常导致家族性肌萎缩性脊髓侧索硬化症; 导致 6 型家族性肌萎缩性脊髓侧索硬化症	A NEW SUBTYPE OF FRONTOTEMPORAL LOBAR DEGENERATION WITH FUS PATHOLOGY	80	NEUMANN M	Univ British Columbia	BRAIN
		TDP-43 MUTANT TRANSGENIC MICE DEVELOP FEATURES OF ALS AND FRONTOTEMPORAL LOBAR DEGENERATION	76	WEGORZEWSKA I	Washington Univ	PROC NAT ACAD SCI USA
LOW-FREQUENCY NEURONAL OSCILLATIONS; GAMMA OSCILLATIONS ROUTES FLOW; SYNCHRONIZED GAMMA OSCILLATIONS; HUMAN	低频神经元震荡; γ 震荡轨迹; 同步化 γ 震荡; 与人类 γ 频率震荡相关; 神经元 γ 频	NEURONAL GAMMA-BAND SYNCHRONIZATION AS A FUNDAMENTAL PROCESS IN CORTICAL	69	FRIES P	Radboud Univ Nijmegen	ANNU REV NEUROSCI

GAMMA-FREQUENCY OSCILLATIONS ASSOCIATED; NEURONAL GAMMA-BAND SYNCHRONIZATION	带同步化	COMPUTATION				
ZEBRAFISH BEHAVIORAL PROFILING DRUG-BIOLOGICAL TARGET-REST/WAKE REGULATION CAUSAL LINKAGE; RAPID BEHAVIOR-BASED IDENTIFICATION; NEUROACTIVE SMALL MOLECULES	斑马鱼行为学结果发现静息态和清醒态调节的因果联系在药物生物学上存在靶点; 快速行为识别; 神经活性小分子	ZEBRAFISH BEHAVIORAL PROFILING LINKS DRUGS TO LOGICAL TARGETS AND REST/WAKE REGULATION	45	RIHEL J	Harvard Univ	SCIENCE
HISTONE METHYLATION; MEMORY FORMATION; DNMT3A MAINTAIN DNA METHYLATION; REGULATE SYNAPTIC FUNCTION; ADULT FOREBRAIN NEURONS; DNMT1	组蛋白甲基化; 记忆的形成; Dnmt3a 维持DNA甲基化; 调节突触功能; 成熟前脑神经元; DNMT1	DNMT1 AND DNMT3A MAINTAIN DNA METHYLATION AND REGULATE SYNAPTIC FUNCTION IN ADULT FOREBRAIN NEURONS	40	FENG J	Univ Calif Los Angeles	NAT NEUROSCI
CHRONIC CEREBROSPINAL VENOUS INSUFFICIENCY; MULTIPLE SCLEROSIS; NO CEREBROCERVICAL VENOUS CONGESTION; CEREBRAL DOPPLER VENOUS HAEMODYNAMICS; CEREBROSPINAL FLUID FLOW	慢性脑脊髓静脉功能不全; 多发性硬化症; 非头颈静脉阻塞; 脑静脉多普勒血液动力学; 脑脊液流动	NO CEREBROCERVICAL VENOUS CONGESTION IN PATIENTS WITH MULTIPLE SCLEROSIS	30	DOEPP F	Humboldt Univ	ANN NEUROL

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2011 年 9 月更新的 ESI-神经科学与行为领域近两年热点论文中未划分研究前沿的 50 篇文章

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