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From inflammation to sickness and depression: when the immune system subjugates the brain

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2226	Stoichiometry and structural effect of the cyclic nucleotide binding to cyclic AMP receptor protein. <b>2002</b> , 277, 11450-5		25
2225	Chronic fatigue syndrome defies the mind-body-schism of medicine. New perspectives on a multiple realisable developmental systems disorder. <b>2008</b> , 11, 285-92		7
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2220	The molecular neurobiology of depression. <b>2008</b> , 455, 894-902		1915
2219	Cytokines and their relationship to the symptoms and outcome of cancer. <b>2008</b> , 8, 887-99		482
2218	Cyclooxygenase-2 deficiency modifies the neurochemical effects, motor impairment and co-morbid anxiety provoked by paraquat administration in mice. <b>2008</b> , 28, 707-16		31
2217	Cancer fatigue: a review for psychiatrists. <b>2008</b> , 30, 233-44		9
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1816	The importance of norepinephrine in depression. <b>2011</b> , 7, 9-13	155
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1772	Electroconvulsive therapy has acute immunological and neuroendocrine effects in patients with major depressive disorder. <b>2011</b> , 131, 388-92	51
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1760	Limited effect of screening for depression with written feedback in outpatients with diabetes mellitus: a randomised controlled trial. <b>2011</b> , 54, 741-8	49
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1753	Dysregulation of chemo-cytokine production in schizophrenic patients versus healthy controls. <b>2011</b> , 12, 13	77
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1749	Insulin-like growth factor-I peptides act centrally to decrease depression-like behavior of mice treated intraperitoneally with lipopolysaccharide. <b>2011</b> , 8, 179	45
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1639	Decreased hydrocortisone sensitivity of T cell function in multiple sclerosis-associated major depression. <b>2012</b> , 37, 1712-8	13
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1609	Neuroimmunomodulation in unipolar depression: a focus on chronobiology and chronotherapeutics. <b>2012</b> , 119, 1147-66	11
1608	Depression and visual functioning in patients with ocular inflammatory disease. <b>2012</b> , 153, 370-378.e2	44
1607	Regulatory T cells suppress sickness behaviour development without altering liver injury in cholestatic mice. <b>2012</b> , 56, 626-31	23
1606	Liver-induced inflammation hurts the brain. <b>2012</b> , 56, 515-7	5
1605	Peripheral inflammation increases the deleterious effect of CNS inflammation on the nigrostriatal dopaminergic system. <b>2012</b> , 33, 347-60	71
1604	Post-inflammatory fatigue in sarcoidosis: personality profiles, psychological symptoms and stress hormones. <b>2012</b> , 72, 97-102	13
1603	Attractiveness of illness-associated odorant cues in female rats is modulated by ovarian hormones, but not associated with pro-inflammatory cytokine levels. <b>2012</b> , 26, 40-9	11
1602	The role of immune dysfunction in the pathophysiology of autism. <b>2012</b> , 26, 383-92	416
1601	Single-trial conditioning in a human taste-endotoxin paradigm induces conditioned odor aversion but not cytokine responses. <b>2012</b> , 26, 234-8	27
1600	The biobehavioral and neuroimmune impact of low-dose ionizing radiation. <b>2012</b> , 26, 218-27	36
1599	Central metabolite changes and activation of microglia after peripheral interleukin-2 challenge. <b>2012</b> , 26, 277-83	18

1598	Neuroimmunological effects of physical exercise in depression. <b>2012</b> , 26, 251-66	106
1597	Lipopolysaccharide-induced interleukin (IL)-4 receptor- $\beta$ expression and corresponding sensitivity to the M2 promoting effects of IL-4 are impaired in microglia of aged mice. <b>2012</b> , 26, 766-77	142
1596	Maintenance of a positive outlook during acute stress protects against pro-inflammatory reactivity and future depressive symptoms. <b>2012</b> , 26, 346-52	78
1595	Long term adequate n-3 polyunsaturated fatty acid diet protects from depressive-like behavior but not from working memory disruption and brain cytokine expression in aged mice. <b>2012</b> , 26, 721-31	77
1594	Serum sTNF-R1, IL-6, and the development of fatigue in patients with gastrointestinal cancer undergoing chemoradiation therapy. <b>2012</b> , 26, 699-705	79
1593	Anti-streptococcus IgM antibodies induce repetitive stereotyped movements: cell activation and co-localization with Fc $\gamma$ 1 receptors in the striatum and motor cortex. <b>2012</b> , 26, 521-33	19
1592	The impact of aging on the brain--risk, resilience and repair. <b>2012</b> , 26, 714-6	5
1591	The effects of MyD88 deficiency on exploratory activity, anxiety, motor coordination, and spatial learning in C57BL/6 and APP <sup>swe</sup> /PS1 <sup>dE9</sup> mice. <b>2012</b> , 227, 36-42	24
1590	Lipopolysaccharide affects exploratory behaviors toward novel objects by impairing cognition and/or motivation in mice: Possible role of activation of the central amygdala. <b>2012</b> , 228, 423-31	61
1589	Learning, memory, and glial cell changes following recovery from chronic unpredictable stress. <b>2012</b> , 88, 471-6	64
1588	Cytokines and irritable bowel syndrome: where do we stand?. <b>2012</b> , 57, 201-9	54
1587	Adrenergic regulation of the innate immune response in common carp ( <i>Cyprinus carpio</i> L.). <b>2012</b> , 36, 306-16	32
1586	The fusion protein of IFN- $\beta$ and apolipoprotein A-I crosses the blood-brain barrier by a saturable transport mechanism. <b>2012</b> , 188, 3988-92	14
1585	Interleukin-1 $\beta$ causes anxiety by interacting with the endocannabinoid system. <b>2012</b> , 32, 13896-905	72
1584	Early life stress and telomere length: investigating the connection and possible mechanisms: a critical survey of the evidence base, research methodology and basic biology. <b>2012</b> , 34, 943-52	105
1583	Placental regulation of maternal-fetal interactions and brain development. <b>2012</b> , 72, 1317-26	131
1582	Depression and sickness behavior are Janus-faced responses to shared inflammatory pathways. <b>2012</b> , 10, 66	347
1581	Long-term impact of systemic bacterial infection on the cerebral vasculature and microglia. <b>2012</b> , 9, 146	113

1580	Blockade of adenosine A2A receptors prevents interleukin-1 $\beta$ induced exacerbation of neuronal toxicity through a p38 mitogen-activated protein kinase pathway. <b>2012</b> , 9, 204	44
1579	IL-1 $\beta$ reactivity and the development of severe fatigue after military deployment: a longitudinal study. <b>2012</b> , 9, 205	11
1578	Inducible nitric oxide synthase is involved in the modulation of depressive behaviors induced by unpredictable chronic mild stress. <b>2012</b> , 9, 75	86
1577	Cerebrospinal fluid kynurenic acid is associated with manic and psychotic features in patients with bipolar I disorder. <b>2012</b> , 14, 719-26	66
1576	Surgery upregulates high mobility group box-1 and disrupts the blood-brain barrier causing cognitive dysfunction in aged rats. <b>2012</b> , 18, 994-1002	115
1575	Tumour necrosis factor - alpha mediated mechanisms of cognitive dysfunction. <b>2012</b> , 3,	32
1574	Regulation of Inflammation-Mediated Chronic Diseases by Botanicals. <b>2012</b> , 57-132	10
1573	Autism spectrum disorders: from immunity to behavior. <b>2012</b> , 934, 219-40	33
1572	Immune Dysfunction in Autism Spectrum Disorders. <b>2012</b> , 253-269	
1571	Schizophrenia patients with a history of childhood trauma have a pro-inflammatory phenotype. <b>2012</b> , 42, 1865-71	77
1570	A mentalization-based approach to the understanding and treatment of functional somatic disorders. <b>2012</b> , 26, 121-140	70
1569	Inflammation in anxiety. <b>2012</b> , 88, 1-25	184
1568	Gas chromatography/tandem mass spectrometry detection of extracellular kynurenine and related metabolites in normal and lesioned rat brain. <b>2012</b> , 421, 573-81	37
1567	An Exploration of Depressive Symptoms in Hepatitis C Patients Taking Interferon-alpha: Increase in Sickness Behaviors but not Negative Cognitions. <b>2012</b> , 2, 218-23	4
1566	Fatigue symptoms relate to systemic inflammation in patients with type 2 diabetes. <b>2012</b> , 26, 1211-9	51
1565	Role of intestinal permeability and inflammation in the biological and behavioral control of alcohol-dependent subjects. <b>2012</b> , 26, 911-8	186
1564	Early life stress and inflammatory mechanisms of fatigue in the Coronary Artery Risk Development in Young Adults (CARDIA) study. <b>2012</b> , 26, 859-65	33
1563	Tryptophan depletion in depressed patients occurs independent of kynurenine pathway activation. <b>2012</b> , 26, 979-87	76

1562	A meta-analysis of differences in IL-6 and IL-10 between people with and without depression: exploring the causes of heterogeneity. <b>2012</b> , 26, 1180-8	178
1561	Increased soluble interleukin-2 receptor levels are related to somatic but not to cognitive-affective features in major depression. <b>2012</b> , 26, 1244-8	16
1560	Trypanosoma cruzi-induced depressive-like behavior is independent of meningoencephalitis but responsive to parasiticide and TNF-targeted therapeutic interventions. <b>2012</b> , 26, 1136-49	31
1559	Disgust elevates core body temperature and up-regulates certain oral immune markers. <b>2012</b> , 26, 1160-8	49
1558	Prior exposure to repeated morphine potentiates mechanical allodynia induced by peripheral inflammation and neuropathy. <b>2012</b> , 26, 1256-64	45
1557	Fatigue, brain, behavior, and immunity: summary of the 2012 Named Series on fatigue. <b>2012</b> , 26, 1220-3	28
1556	Neural and behavioral responses to low-grade inflammation. <b>2012</b> , 235, 334-41	31
1555	Lipopolysaccharide administration in the dominant mouse destabilizes social hierarchy. <b>2012</b> , 91, 54-60	12
1554	Cumulative depression episodes predict later C-reactive protein levels: a prospective analysis. <b>2012</b> , 71, 15-21	189
1553	Cognitive-behavioral stress management reverses anxiety-related leukocyte transcriptional dynamics. <b>2012</b> , 71, 366-72	162
1552	Depression and inflammation: an intricate relationship. <b>2012</b> , 71, 4-5	83
1551	Vascular risk status as a predictor of later-life depressive symptoms: a cohort study. <b>2012</b> , 72, 324-30	26
1550	Clustering of depression and inflammation in adolescents previously exposed to childhood adversity. <b>2012</b> , 72, 34-40	228
1549	Tumor necrosis factor gene variation predicts hippocampus volume in healthy individuals. <b>2012</b> , 72, 655-62	52
1548	Pharmacologic prevention and treatment of delirium in critically ill and non-critically ill hospitalised patients: a review of data from prospective, randomised studies. <b>2012</b> , 26, 289-309	39
1547	Modulatory effects of acupuncture on murine depression-like behavior following chronic systemic inflammation. <b>2012</b> , 1472, 149-60	16
1546	Inflammation selectively enhances amygdala activity to socially threatening images. <b>2012</b> , 59, 3222-6	161
1545	Adolescent binge drinking increases expression of the danger signal receptor agonist HMGB1 and Toll-like receptors in the adult prefrontal cortex. <b>2012</b> , 226, 475-88	125

1544	Neuropeptide Y, peptide YY and pancreatic polypeptide in the gut-brain axis. <b>2012</b> , 46, 261-74	297
1543	Shape shifters: biobehavioral determinants and phenomena in symptom research. <b>2012</b> , 60, 191-7	8
1542	Neurobiological studies of fatigue. <b>2012</b> , 99, 93-105	70
1541	Celecoxib enhances the effect of reboxetine and fluoxetine on cortical noradrenaline and serotonin output in the rat. <b>2012</b> , 39, 143-8	36
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1539	Microvascular pathology in late-life depression. <b>2012</b> , 322, 46-9	15
1538	Nutrition and the psychoneuroimmunology of postpartum depression. <b>2012</b> , 25, 180-92	44
1537	Using optogenetics to translate the "inflammatory dialogue" between heart and brain in the context of stress. <b>2012</b> , 28, 435-48	5
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1528	Interleukin-1 inhibition and fatigue in primary Sjögren's syndrome--a double blind, randomised clinical trial. <b>2012</b> , 7, e30123	109
1527	Transmission of infectious diseases en route to habitat hotspots. <b>2012</b> , 7, e31290	9



1526	Do premenopausal women with major depression have low bone mineral density? A 36-month prospective study. <b>2012</b> , 7, e40894	15
1525	CD4+CD25+ regulatory T cell depletion modulates anxiety and depression-like behaviors in mice. <b>2012</b> , 7, e42054	65
1524	A Distinct Profile of Tryptophan Metabolism along the Kynurenine Pathway Downstream of Toll-Like Receptor Activation in Irritable Bowel Syndrome. <b>2012</b> , 3, 90	72
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1522	DISC1 Pathway in Brain Development: Exploring Therapeutic Targets for Major Psychiatric Disorders. <b>2012</b> , 3, 25	20
1521	The adverse effects of air pollution on the nervous system. <b>2012</b> , 2012, 782462	304
1520	Exercise in the metabolic syndrome. <b>2012</b> , 2012, 349710	63
1519	Cellular Mechanisms of MOF During Severe Sepsis and Septic Shock. <b>2012</b> ,	
1518	Metabolic and immune risk factors for dementia and their modification by flavonoids: New targets for the prevention of cognitive impairment?. <b>2012</b> , 1, 69-88	2
1517	Mood disorders. 27-79	
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1515	Animal welfare: A result of animal background and perception of its environment. <b>2012</b> , 2, 7-15	17
1514	Comparative Psychoneuroimmunology/Ecoimmunology: Lessons from Simpler Model Systems. <b>2012</b> ,	2
1513	Exposure to herpes simplex virus type 1 and cognitive impairments in individuals with schizophrenia. <b>2012</b> , 38, 1137-48	63
1512	Persistent sensitization of depressive-like behavior and thermogenic response during maternal separation in pre- and post-weaning guinea pigs. <b>2012</b> , 54, 514-22	10
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1510	Mood disorders in inflammatory bowel disease: relation to diagnosis, disease activity, perceived stress, and other factors. <b>2012</b> , 18, 2301-9	145
1509	Prediction of overall survival through circadian rest-activity monitoring during chemotherapy for metastatic colorectal cancer. <b>2012</b> , 131, 2684-92	76

1508	The Elevated Plus-Maze Test: Differential Psychopharmacology of Anxiety-Related Behavior. <b>2012</b> , 4, 98-115	29
1507	A review of research trends in physiological abnormalities in autism spectrum disorders: immune dysregulation, inflammation, oxidative stress, mitochondrial dysfunction and environmental toxicant exposures. <b>2012</b> , 17, 389-401	347
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1504	[Postoperative cognitive dysfunction. Possible neuronal mechanisms and practical consequences for clinical routine]. <b>2012</b> , 61, 437-43	7
1503	Evolutionary medicine and chronic inflammatory state--known and new concepts in pathophysiology. <b>2012</b> , 90, 523-34	76
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1501	The S100B protein in biological fluids: more than a lifelong biomarker of brain distress. <b>2012</b> , 120, 644-59	146
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1499	Circulating cytokine concentrations are not associated with major depressive disorder in a community-based cohort. <b>2012</b> , 34, 262-7	22
1498	Interleukin (IL)-6, tumour necrosis factor alpha (TNF- $\alpha$ ) and soluble interleukin-2 receptors (sIL-2R) are elevated in patients with major depressive disorder: a meta-analysis and meta-regression. <b>2012</b> , 139, 230-9	609
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1493	Inflammation in psychopathology of depression: Clinical, biological, and therapeutic implications. <b>2012</b> , 2, 68-74	55
1492	Interferon modulates central nervous system function. <b>2012</b> , 1442, 76-89	38
1491	Partial reduction in neural cell adhesion molecule (NCAM) in heterozygous mice induces depression-related behaviour without cognitive impairment. <b>2012</b> , 1447, 106-18	22

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1489	Role of sleep in the regulation of the immune system and the pituitary hormones. <b>2012</b> , 1261, 97-106	54
1488	Biological memory of childhood maltreatment: current knowledge and recommendations for future research. <b>2012</b> , 1262, 93-100	34
1487	Experimental endotoxemia as a model to study neuroimmune mechanisms in human visceral pain. <b>2012</b> , 1262, 108-17	16
1486	Glucocorticoid-catecholamine interplay within the composite thymopoietic regulatory network. <b>2012</b> , 1261, 34-41	6
1485	Glucocorticoid regulation of inflammation and its functional correlates: from HPA axis to glucocorticoid receptor dysfunction. <b>2012</b> , 1261, 55-63	419
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1482	Intestinal inflammation influences ßMSH reactive autoantibodies: relevance to food intake and body weight. <b>2012</b> , 37, 94-106	21
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1480	The psychosocial, endocrine and immune consequences of caring for a child with autism or ADHD. <b>2012</b> , 37, 534-42	85
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1478	Depression and type 2 diabetes: inflammatory mechanisms of a psychoneuroendocrine co-morbidity. <b>2012</b> , 36, 658-76	169
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1475	Adverse childhood experiences, allostasis, allostatic load, and age-related disease. <b>2012</b> , 106, 29-39	1145
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1473	Estrogenic involvement in social learning, social recognition and pathogen avoidance. <b>2012</b> , 33, 140-59	60

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1469	A neuroimmunological perspective on anxiety disorders. <b>2012</b> , 27, 6-14	68
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1466	Interferon- $\alpha$ induces nitric oxide synthase expression and haem oxygenase-1 down-regulation in microglia: implications of cellular mechanism of IFN- $\alpha$ induced depression. <b>2013</b> , 16, 433-44	28
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1464	Neuroinflammation and psychiatric illness. <b>2013</b> , 10, 43	392
1463	Body mass index and musculoskeletal pain: is there a connection?. <b>2013</b> , 21, 15	23
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1459	Involvement of purinergic system in inflammation and toxicity induced by copper in zebrafish larvae. <b>2013</b> , 272, 681-9	43
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1455	Cytokine targets in the brain: impact on neurotransmitters and neurocircuits. <b>2013</b> , 30, 297-306	450

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1453	Metabolic Syndrome. <b>2013</b> ,	24
1452	Testosterone, cortisol and anxiety in elite field hockey players. <b>2013</b> , 119, 38-42	29
1451	The putative JAK-STAT inhibitor AG490 exacerbates LPS-fever, reduces sickness behavior, and alters the expression of pro- and anti-inflammatory genes in the rat brain. <b>2013</b> , 71, 98-111	33
1450	Various roles of astrocytes during recovery from repeated exposure to different doses of lipopolysaccharide. <b>2013</b> , 253, 253-61	20
1449	Somatization and Psychosomatic Symptoms. <b>2013</b> ,	5
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1447	Malaise, melancholia and madness: the evolutionary legacy of an inflammatory bias. <b>2013</b> , 31, 1-8	64
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1440	Depressive symptoms, pain, chronic medical morbidity, and interleukin-6 among primary care patients. <b>2013</b> , 14, 686-91	11
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1438	Immunoglobulin-mediated neuro-cognitive impairment: new data and a comprehensive review. <b>2013</b> , 45, 248-55	10
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1435	Suicidal ideation is associated with elevated inflammation in patients with major depressive disorder. <b>2013</b> , 30, 307-14	129
1434	Indoleamine 2,3-dioxygenase inhibitors: a patent review (2008 - 2012). <b>2013</b> , 23, 1367-81	43
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1430	Learned immunosuppression: extinction, renewal, and the challenge of reconsolidation. <b>2013</b> , 8, 180-8	20
1429	Chronic fatigue syndrome from vagus nerve infection: a psychoneuroimmunological hypothesis. <b>2013</b> , 81, 414-23	27
1428	Fucoidan prevents depression-like behavior in rats exposed to repeated restraint stress. <b>2013</b> , 67, 534-44	15
1427	Inflammatory T helper 17 cells promote depression-like behavior in mice. <b>2013</b> , 73, 622-30	143
1426	Abnormalities of neurotransmitter and neuropeptide systems in human neuroepithelioma cells infected by three Toxoplasma strains. <b>2013</b> , 120, 1631-9	22
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1423	Methylphenidate prevents high-fat diet (HFD)-induced learning/memory impairment in juvenile mice. <b>2013</b> , 38, 1553-64	86
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1420	Dim light at night increases depressive-like responses in male C3H/HeNHsd mice. <b>2013</b> , 243, 74-8	62
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1417	Lipopolysaccharide-induced anhedonia is abolished in male serotonin transporter knockout rats: an intracranial self-stimulation study. <b>2013</b> , 29, 98-103	38
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1403	Psychoneuroimmunology and cancer: a decade of discovery, paradigm shifts, and methodological innovations. <b>2013</b> , 30 Suppl, S1-9	67
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1175	. <b>2014</b> ,	3
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1173	Anxiety disorders. 240-252	
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964	Genipin attenuates lipopolysaccharide-induced persistent changes of emotional behaviors and neural activation in the hypothalamic paraventricular nucleus and the central amygdala nucleus. <b>2014</b> , 741, 1-7	19
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962	Dietary supplementation of omega-3 fatty acids rescues fragile X phenotypes in <i>Fmr1-Ko</i> mice. <b>2014</b> , 49, 119-29	39
961	Lamotrigine reverses masseter overactivity caused by stress maybe via Glu suppression. <b>2014</b> , 137, 25-32	7
960	High-fat diet consumption disrupts memory and primes elevations in hippocampal IL-1 $\beta$ an effect that can be prevented with dietary reversal or IL-1 receptor antagonism. <b>2014</b> , 42, 22-32	98
959	And the BBI 2014 award for lead actor in "neuroinflammation and depression" goes to $\square$ <b>2014</b> , 42, 48-9	1
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