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Assessment of psychotropic-like properties of a probiotic formulation (*Lactobacillus helveticus* R0052 and *Bifidobacterium longum* R0175) in rats and human subjects

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982	.		
981	Ingestion of Lactobacillus strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve. 2011 , 108, 16050-5		2017
980	Acne vulgaris, probiotics and the gut-brain-skin axis - back to the future?. 2011 , 3, 1		114
979	Brain-gut-microbe communication in health and disease. 2011 , 2, 94		512
978	The new link between gut-brain axis and neuropsychiatric disorders. 2011 , 14, 477-82		51
977	The microbiome-gut-brain axis: from bowel to behavior. 2011 , 23, 187-92		555
976	Probiotics function mechanistically as delivery vehicles for neuroactive compounds: Microbial endocrinology in the design and use of probiotics. 2011 , 33, 574-81		336
975	Whole-genome shotgun sequencing of an Indian-origin Lactobacillus helveticus strain, MTCC 5463, with probiotic potential. 2011 , 193, 4282-3		19
974	Probiotics in the treatment of depression: science or science fiction?. 2011 , 45, 1023-5		38
973	Beneficial psychological effects of a probiotic formulation (Lactobacillus helveticus R0052 and Bifidobacterium longum R0175) in healthy human volunteers. 2011 , 2, 256-61		339
972	On communication between gut microbes and the brain. 2012 , 28, 557-62		90
971	Gut microbial communities modulating brain development and function. 2012 , 3, 366-73		63
970	Scientific Opinion on the substantiation of health claims related to a combination of Lactobacillus helveticus CNCM I-1722 and Bifidobacterium longum subsp. longum CNCM I-3470 and alleviation of psychological stress (ID 938) and maintains the balance of. 2012 , 10, 2849		0
969	Combination of Lactobacillus helveticus R0052 and Bifidobacterium longum R0175 reduces post-myocardial infarction depression symptoms and restores intestinal permeability in a rat model. <i>British Journal of Nutrition</i> , 2012 , 107, 1793-9	3.6	129
968	Communication between gastrointestinal bacteria and the nervous system. 2012 , 12, 667-72		160
967	Science and technology for the mastership of probiotic applications in food products. 2012 , 162, 356-65		56
966	Neurologic effects of exogenous saccharides: a review of controlled human, animal, and in vitro studies. 2012 , 15, 149-62		35

965	Regulation of the stress response by the gut microbiota: implications for psychoneuroendocrinology. 2012 , 37, 1369-78	362
964	Mind-altering microorganisms: the impact of the gut microbiota on brain and behaviour. 2012 , 13, 701-12	2367
963	Prospectus of probiotics in modern age diseases. 2012 , 2, S1963-S1974	8
962	Probiotics, prebiotics, and synbiotics: gut and beyond. 2012 , 2012, 872716	117
961	Health-Promoting Properties of Lactobacillus helveticus. 2012 , 3, 392	58
960	Gut microbiota and developmental programming of the brain: from evidence in behavioral endophenotypes to novel perspective in obesity. 2012 , 2, 109	27
959	Post-Myocardial Infarction Depression. 2012 ,	1
958	Review article: probiotics for the treatment of irritable bowel syndrome--focus on lactic acid bacteria. 2012 , 35, 403-13	149
957	Stress and visceral pain: from animal models to clinical therapies. 2012 , 233, 49-67	150
956	Can we vaccinate against depression?. 2012 , 17, 451-8	30
955	Gut memories: towards a cognitive neurobiology of irritable bowel syndrome. 2012 , 36, 310-40	120
954	The microbiome-gut-brain axis during early life regulates the hippocampal serotonergic system in a sex-dependent manner. 2013 , 18, 666-73	1040
953	Emerging importance of holobionts in evolution and in probiotics. 2013 , 5, 12	32
952	Intestinal microbiota, probiotics and mental health: from Metchnikoff to modern advances: Part II - contemporary contextual research. 2013 , 5, 3	63
951	Psychobiotics: a novel class of psychotropic. 2013 , 74, 720-6	645
950	Broad-spectrum micronutrient formulas for the treatment of psychiatric symptoms: a systematic review. 2013 , 13, 49-73	74
949	Two faces of microbiota in inflammatory and autoimmune diseases: triggers and drugs. 2013 , 121, 403-21	22
948	Melancholic microbes: a link between gut microbiota and depression?. 2013 , 25, 713-9	263

947	Alteration of the intestinal microbiome: fecal microbiota transplant and probiotics for <i>Clostridium difficile</i> and beyond. 2013 , 7, 615-28	16
946	Microbiota modulate behavioral and physiological abnormalities associated with neurodevelopmental disorders. 2013 , 155, 1451-63	1963
945	Probiotics from research to market: the possibilities, risks and challenges. 2013 , 16, 284-92	123
944	Prebiotic feeding elevates central brain derived neurotrophic factor, N-methyl-D-aspartate receptor subunits and D-serine. 2013 , 63, 756-64	229
943	Gut microbes as modulators of the neuro-immuno-endocrine system. 2013 , 1, 115-122	3
942	Effects of <i>Lactobacillus helveticus</i> on murine behavior are dependent on diet and genotype and correlate with alterations in the gut microbiome. 2013 , 38, 1738-47	188
941	Intestinal microbiota, probiotics and mental health: from Metchnikoff to modern advances: part III - convergence toward clinical trials. 2013 , 5, 4	50
940	Consumption of fermented milk product with probiotic modulates brain activity. 2013 , 144, 1394-401, 1401.e1-4	745
939	Habitat degradation impacts black howler monkey (<i>Alouatta pigra</i>) gastrointestinal microbiomes. 2013 , 7, 1344-53	725
938	The intestinal microbiome, probiotics and prebiotics in neurogastroenterology. 2013 , 4, 17-27	155
937	The brain-gut axis: a target for treating stress-related disorders. 2013 , 28, 90-9	29
936	Chronisch-entzündliche Darmerkrankungen aus der Sicht der Komplementärmedizin - Teil 1. 2013 , 25, 166-168	
935	Gut Microbiome and Brain-Gut Axis in Autism [Aberrant Development of Gut-Brain Communication and Reward Circuitry. 2013 ,	1
934	The gut microbial community of Midas cichlid fish in repeatedly evolved limnetic-benthic species pairs. 2014 , 9, e95027	41
933	Cytokine variations and mood disorders: influence of social stressors and social support. 2014 , 8, 416	32
932	The microbiota-gut-brain axis in functional gastrointestinal disorders. 2014 , 5, 419-29	86
931	The effects of gut microbiota on CNS function in humans. 2014 , 5, 404-10	91
930	Irritable bowel syndrome: the problem and the problem of treating it - is there a role for probiotics?. 2014 , 73, 470-6	6

929	The Pharmacology of the Gut-Brain Axis: Prospects for Future Therapeutic Progress?. 2014 , 117-129	
928	The impact of microbiota on brain and behavior: mechanisms & therapeutic potential. 2014 , 817, 373-403	197
927	The gut microbiome and the brain. 2014 , 17, 1261-72	330
926	The gastrointestinal tract microbiome, probiotics, and mood. 2014 , 22, 333-9	20
925	Psychobiotics: an emerging treatment in stress-related disorders. 2014 , 28, 329-33	3
924	Neuro-Robotics. 2014 ,	9
923	Impact of stressor exposure on the interplay between commensal microbiota and host inflammation. 2014 , 5, 390-6	77
922	'Let food be thy medicine, and medicine be thy food': Hippocrates revisited. 2014 , 26, 1-3	12
921	Microbial endocrinology and the microbiota-gut-brain axis. 2014 , 817, 3-24	100
920	Irritable bowel syndrome: a microbiome-gut-brain axis disorder?. 2014 , 20, 14105-25	195
919	The overarching influence of the gut microbiome on end-organ function: the role of live probiotic cultures. 2014 , 7, 954-89	17
918	Glücksnahrung Essen und Psyche im westöstlichen Kontext: Food and mood in west-east context. 2014 , 57, 38-41	1
917	Acne vulgaris, probiotics and the gut-brain-skin axis: from anecdote to translational medicine. 2014 , 5, 185-99	61
916	Fermented foods, microbiota, and mental health: ancient practice meets nutritional psychiatry. 2014 , 33, 2	148
915	Probiotic gut effect prevents the chronic psychological stress-induced brain activity abnormality in mice. 2014 , 26, 510-20	232
914	The role of microbiome in central nervous system disorders. 2014 , 38, 1-12	465
913	Lactic Acid Bacteria. 2014 ,	15
912	Gut microbiota modulation and implications for host health: Dietary strategies to influence the gutBrain axis. 2014 , 22, 239-247	37

911	Review article: intestinal barrier dysfunction and central nervous system disorders--a controversial association. 2014 , 40, 1187-201	52
910	Gut microbes and the brain: paradigm shift in neuroscience. 2014 , 34, 15490-6	515
909	Broad-spectrum micronutrient treatment for attention-deficit/hyperactivity disorder: rationale and evidence to date. 2014 , 28, 775-85	16
908	Bifidobacteria exert strain-specific effects on stress-related behavior and physiology in BALB/c mice. 2014 , 26, 1615-27	255
907	Microbiota-gut-brain axis and cognitive function. 2014 , 817, 357-71	94
906	Intestinal permeability, gut-bacterial dysbiosis, and behavioral markers of alcohol-dependence severity. 2014 , 111, E4485-93	455
905	Neuroimaging the microbiome-gut-brain axis. 2014 , 817, 405-16	13
904	Is eating behavior manipulated by the gastrointestinal microbiota? Evolutionary pressures and potential mechanisms. 2014 , 36, 940-9	241
903	Minireview: Gut microbiota: the neglected endocrine organ. 2014 , 28, 1221-38	584
902	Gut microbiota, the pharmabiotics they produce and host health. 2014 , 73, 477-89	91
901	Microbial Endocrinology: The Microbiota-Gut-Brain Axis in Health and Disease. 2014 ,	40
900	Pharma-Nutrition. 2014 ,	
899	Psychopharmacology and Pregnancy. 2014 ,	2
898	Modulation of Gut Microora in the Prevention of Atherosclerosis and Cancer Using Probiotics and Prebiotics. 2014 , 432-455	
897	The microbiome and childhood diseases: Focus on brain-gut axis. 2015 , 105, 296-313	27
896	Lost in Translation: The Gut Microbiota in Psychiatric Illness. 2015 , 60, 460-3	12
895	Dysbiosis of the gut microbiota in disease. 2015 , 26, 26191	604
894	Probiotic administration among free-living older adults: a double blinded, randomized, placebo-controlled clinical trial. 2016 , 15, 80	39

893	Lactobacillus fermentum NS9 restores the antibiotic induced physiological and psychological abnormalities in rats. 2015 , 6, 707-17	129
892	The Microbiome in Mental Health: Potential Contribution of Gut Microbiota in Disease and Pharmacotherapy Management. 2015 , 35, 910-6	33
891	Dysbiotic drift: mental health, environmental grey space, and microbiota. 2015 , 34, 23	49
890	The microbiome of the built environment and mental health. 2015 , 3, 60	57
889	Gut Microbiota: A Modulator of Brain Plasticity and Cognitive Function in Ageing. 2015 , 3, 898-916	54
888	Breaking down the barriers: the gut microbiome, intestinal permeability and stress-related psychiatric disorders. 2015 , 9, 392	514
887	The Microbiome, Gut-Brain-Axis, and Implications for Brain Health. 2015 , 2, 158-161	2
886	The Gut-Brain Axis: The Missing Link in Depression. 2015 , 13, 239-44	165
885	Exercise is More Effective at Altering Gut Microbial Composition and Producing Stable Changes in Lean Mass in Juvenile versus Adult Male F344 Rats. 2015 , 10, e0125889	106
884	Neurotransmitters as food supplements: the effects of GABA on brain and behavior. 2015 , 6, 1520	132
883	Psychobiotics and the gut-brain axis: in the pursuit of happiness. 2015 , 11, 715-23	79
882	The Role of the Microbiome in Mental Health: A Psychoneuroimmunologic Perspective. 2015 , 21, 61-67	1
881	The Howler Monkey as a Model for Exploring Host-Gut Microbiota Interactions in Primates. 2015 , 229-258	7
880	Microbial endocrinology: host-bacteria communication within the gut microbiome. 2015 , 225, R21-34	71
879	Beneficial Microorganisms in Medical and Health Applications. 2015 ,	5
878	Beneficial Microorganisms in Food and Nutraceuticals. 2015 ,	9
877	Gut Microbiome and Stress. 2015 , 223-255	1
876	Visceral Pain and Psychiatric Disorders. 2015 , 30, 103-19	12

875	Nutritional aspects of depression. 2015 , 37, 1029-43	120
874	Roles of Probiotics on Lifelong Diversifications of Gut Microbiota. 2015 , 245-263	
873	Prebiotic intake reduces the waking cortisol response and alters emotional bias in healthy volunteers. 2015 , 232, 1793-801	287
872	Impact of nutrition on brain development and its neuroprotective implications following preterm birth. 2015 , 77, 148-55	120
871	Microbial endocrinology: the interplay between the microbiota and the endocrine system. 2015 , 39, 509-21	266
870	The Emerging Field of Nutritional Mental Health: Inflammation, the Microbiome, Oxidative Stress, and Mitochondrial Function. 2015 , 3, 964-980	78
869	The multifactorial interplay of diet, the microbiome and appetite control: current knowledge and future challenges. 2015 , 74, 235-44	12
868	Psychobiotics: the latest psychotropics. 2015 , 37, 110	2
867	Microbiota and the gut-brain axis. 2015 , 73 Suppl 1, 28-31	139
866	Humans as Superorganisms: How Microbes, Viruses, Imprinted Genes, and Other Selfish Entities Shape Our Behavior. 2015 , 10, 464-81	41
865	What the Gut Can Teach Us About Migraine. 2015 , 19, 33	22
864	Helsinki alert of biodiversity and health. 2015 , 47, 218-25	79
863	Altered fecal microbiota composition in patients with major depressive disorder. 2015 , 48, 186-94	1033
862	Natural environments, ancestral diets, and microbial ecology: is there a modern "paleo-deficit disorder"? Part II. 2015 , 34, 9	18
861	Interoceptive dysfunction: toward an integrated framework for understanding somatic and affective disturbance in depression. 2015 , 141, 311-363	142
860	The growth potential for dairy probiotics. 2015 , 49, 16-22	48
859	Control of brain development, function, and behavior by the microbiome. 2015 , 17, 565-76	570
858	Bifidobacteria modulate cognitive processes in an anxious mouse strain. 2015 , 287, 59-72	224

857	Inulin supplementation during gestation mitigates acrylamide-induced maternal and fetal brain oxidative dysfunctions and neurotoxicity in rats. 2015 , 49, 49-58	22
856	Fermented foods, neuroticism, and social anxiety: An interaction model. 2015 , 228, 203-8	50
855	A possible link between early probiotic intervention and the risk of neuropsychiatric disorders later in childhood: a randomized trial. 2015 , 77, 823-8	181
854	Microbiota regulation of the Mammalian gut-brain axis. 2015 , 91, 1-62	159
853	Administration of Lactobacillus helveticus NS8 improves behavioral, cognitive, and biochemical aberrations caused by chronic restraint stress. 2015 , 310, 561-77	353
852	Probiotics Improve Inflammation-Associated Sickness Behavior by Altering Communication between the Peripheral Immune System and the Brain. 2015 , 35, 10821-30	113
851	The prebiotics 3'Sialyllactose and 6'Sialyllactose diminish stressor-induced anxiety-like behavior and colonic microbiota alterations: Evidence for effects on the gut-brain axis. 2015 , 50, 166-177	173
850	News Feature: Microbes on the mind. 2015 , 112, 9143-5	6
849	Modulation of Gut Microbiota-Brain Axis by Probiotics, Prebiotics, and Diet. 2015 , 63, 7885-95	147
848	Systematic review of evidence to support the theory of psychobiotics. 2015 , 73, 675-93	61
847	Gut brain axis: diet microbiota interactions and implications for modulation of anxiety and depression. 2015 , 32, 35-41	179
846	The "psychomicrobiotic": Targeting microbiota in major psychiatric disorders: A systematic review. 2015 , 63, 35-42	119
845	Adding fuel to the fire: the impact of stress on the ageing brain. 2015 , 38, 13-25	84
844	Habitual yogurt consumption and health-related quality of life: a prospective cohort study. 2015 , 115, 31-9	9
843	Hygiene and other early childhood influences on the subsequent function of the immune system. 2015 , 1617, 47-62	64
842	Peripartum depression and anxiety as an integrative cross domain target for psychiatric preventative measures. 2015 , 276, 32-44	17
841	Gastrointestinal microbiota in children with autism in Slovakia. 2015 , 138, 179-87	345
840	Serotonin, tryptophan metabolism and the brain-gut-microbiome axis. 2015 , 277, 32-48	907

839	Schizophrenia and the gut-brain axis. 2015 , 56, 155-60	82
838	17. Mechanismen der Mikrobiom-Darm-Gehirn- Interaktion und Implikationen für psychische Krankheiten. 2016 ,	
837	19. Prä- und Probiotika. 2016 ,	1
836	Germ-Free Animals. 2016 , 109-140	
835	Fecal Microbiota Transplantation and Its Usage in Neuropsychiatric Disorders. 2016 , 14, 231-7	88
834	A Role for the Microbiota in Neurodevelopmental Disorders. 2016 , 305-318	
833	Altering the Gut Microbiome for Cognitive Benefit?. 2016 , 319-337	1
832	Gut microbiota role in irritable bowel syndrome: New therapeutic strategies. 2016 , 22, 2219-41	176
831	Correlating the Gut Microbiome to Health and Disease. 2016 , 261-291	4
830	The Microbiome and Mental Health: Looking Back, Moving Forward with Lessons from Allergic Diseases. 2016 , 14, 131-47	28
829	Microbial Endocrinology. 2016 , 89-108	
828	Probiotics as an Adjuvant Therapy in Major Depressive Disorder. 2016 , 14, 952-958	27
827	Effect of Probiotics on Central Nervous System Functions in Animals and Humans: A Systematic Review. 2016 , 22, 589-605	177
826	A Metagenomic Insight Into the Human Microbiome. 2016 , 107-119	12
825	Beneficial Properties of Probiotics. 2016 , 27, 73-90	84
824	The Influence of Diet and the Gut Microbiota in Schizophrenia. 2016 , 339-362	1
823	Can probiotics benefit children with autism spectrum disorders?. 2016 , 22, 10093-10102	82
822	Psychobiotics: The Potential Therapeutic Promise of Microbes in Psychiatry. 2016 , 26, 93-102	5

821	The Hypothalamic-Pituitary-Adrenal Axis and Gut Microbiota: A Target for Dietary Intervention?. 2016 , 293-304	5
820	Effect of Probiotics on Depression: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. 2016 , 8,	223
819	Human microbiome studies in Korea. 2016 , 4, 311	4
818	Gut microbiota in autism and mood disorders. 2016 , 22, 361-8	203
817	Typhimurium and Multidirectional Communication in the Gut. 2016 , 7, 1827	36
816	The Neuro-endocrinological Role of Microbial Glutamate and GABA Signaling. 2016 , 7, 1934	148
815	Regulatory Considerations for the Use and Marketing of Probiotics and Functional Foods. 2016 , 1-15	
814	Probiotic Lactobacillus casei strain Shirota relieves stress-associated symptoms by modulating the gut-brain interaction in human and animal models. 2016 , 28, 1027-36	131
813	Gut-brain axis, psychobiotics, and mental health. 2016 , 22, 84-5	13
812	The Role of Fibers and Bioactive Compounds in Gut Microbiota Composition and Health. 2016 , 205-262	
811	Maternal Weaning Modulates Emotional Behavior and Regulates the Gut-Brain Axis. 2016 , 6, 21958	20
810	Probiotic modulation of the microbiota-gut-brain axis and behaviour in zebrafish. 2016 , 6, 30046	89
809	Support for the Microgenderome: Associations in a Human Clinical Population. 2016 , 6, 19171	32
808	Impact of the gut microbiota on the neuroendocrine and behavioural responses to stress in rodents. 2016 , 23, D116	5
807	Cholesterol metabolism: A review of how ageing disrupts the biological mechanisms responsible for its regulation. 2016 , 27, 108-124	77
806	Biological mechanisms underlying evolutionary origins of psychotic and mood disorders. 2016 , 111, 13-24	2
805	Intestinal infection associated with future onset of an anxiety disorder: Results of a nationally representative study. 2016 , 57, 222-226	17
804	Alteration of behavior and monoamine levels attributable to Lactobacillus plantarum PS128 in germ-free mice. 2016 , 298, 202-9	124

803	Butyrate, neuroepigenetics and the gut microbiome: Can a high fiber diet improve brain health?. 2016 , 625, 56-63	298
802	<i>Clostridium butyricum</i> attenuates cerebral ischemia/reperfusion injury in diabetic mice via modulation of gut microbiota. 2016 , 1642, 180-188	79
801	Intricacies of assessing the human microbiome in epidemiologic studies. 2016 , 26, 311-21	30
800	Moody microbes or fecal phrenology: what do we know about the microbiota-gut-brain axis?. 2016 , 14, 58	85
799	Altered gastrointestinal microbiota in irritable bowel syndrome and its modification by diet: probiotics, prebiotics and the low FODMAP diet. 2016 , 75, 306-18	58
798	Fermented Milk Containing <i>Lactobacillus casei</i> Strain Shirota Preserves the Diversity of the Gut Microbiota and Relieves Abdominal Dysfunction in Healthy Medical Students Exposed to Academic Stress. 2016 , 82, 3649-58	140
797	Microbiome in brain function and mental health. 2016 , 57, 289-301	29
796	The Brain-Gut-Microbiome Axis: What Role Does It Play in Autism Spectrum Disorder?. 2016 , 3, 75-81	33
795	Behavioural and neurochemical consequences of chronic gut microbiota depletion during adulthood in the rat. 2016 , 339, 463-477	129
794	Immune-to-Brain Communication Pathways in Inflammation-Associated Sickness and Depression. 2017 , 31, 73-94	97
793	Engineering Human Microbiota: Influencing Cellular and Community Dynamics for Therapeutic Applications. 2016 , 324, 67-124	9
792	Incorporating the gut microbiota into models of human and non-human primate ecology and evolution. 2016 , 159, S196-215	77
791	Alzheimer's disease and gut microbiota. 2016 , 59, 1006-1023	172
790	May the Force Be With You: The Light and Dark Sides of the Microbiota-Gut-Brain Axis in Neuropsychiatry. 2016 , 30, 1019-1041	161
789	The Microbiota, Immunoregulation, and Mental Health: Implications for Public Health. 2016 , 3, 270-86	126
788	Does Diet Matter? The Use of Polyunsaturated Fatty Acids (PUFAs) and Other Dietary Supplements in Inflammation-Associated Depression. 2017 , 31, 321-338	8
787	Transferring the blues: Depression-associated gut microbiota induces neurobehavioural changes in the rat. 2016 , 82, 109-18	736
786	Microbiome and nutrition in autism spectrum disorder: current knowledge and research needs. 2016 , 74, 723-736	68

785	Psychobiotics and the Manipulation of Bacteria-Gut-Brain Signals. 2016 , 39, 763-781	446
784	The Microbiome-Gut-Brain Axis and the Consequences of Infection and Dysbiosis. 2016 , 3, 33-40	2
783	Cognitive Function and the Microbiome. 2016 , 131, 227-246	44
782	Product fermented by Lactobacilli induces changes in intracellular calcium dynamics in rat brain neurons. 2016 , 10, 37-45	3
781	Microbiota and neurologic diseases: potential effects of probiotics. 2016 , 14, 298	79
780	Bifidobacterium longum 1714 as a translational psychobiotic: modulation of stress, electrophysiology and neurocognition in healthy volunteers. 2016 , 6, e939	243
779	The case in favour of probiotics before, during and after pregnancy: insights from the first 1,500 days. 2016 , 7, 353-62	24
778	Bifidobacterium bifidum R0071 decreases stress-associated diarrhoea-related symptoms and self-reported stress: a secondary analysis of a randomised trial. 2016 , 7, 327-36	21
777	Multilevel Approaches to Schizophrenia and Other Psychotic Disorders: The Biobehavioral Interface. 2016 , 1-42	
776	Gut Microbiome and Behavior: Focus on Neuroimmune Interactions. 2016 , 131, 49-65	26
775	The Influence of Prebiotics on Neurobiology and Behavior. 2016 , 131, 21-48	24
774	Fermented milk containing Lactobacillus casei strain Shirota prevents the onset of physical symptoms in medical students under academic examination stress. 2016 , 7, 153-6	81
773	What's bugging your teen?-The microbiota and adolescent mental health. 2016 , 70, 300-312	33
772	Biological underpinnings of psychogenic nonepileptic seizures: directions for future research. 2016 , 37, 1033-8	12
771	Probiotic supplementation can positively affect anxiety and depressive symptoms: a systematic review of randomized controlled trials. 2016 , 36, 889-898	155
770	Microbial modulation of behavior and stress responses in zebrafish larvae. 2016 , 311, 219-227	76
769	The effects of a probiotic formulation (Lactobacillus rhamnosus and L. helveticus) on developmental trajectories of emotional learning in stressed infant rats. 2016 , 6, e823	51
768	Possible association of Bifidobacterium and Lactobacillus in the gut microbiota of patients with major depressive disorder. 2016 , 202, 254-7	277

767	Targeting the ecology within: The role of the gut-brain axis and human microbiota in drug addiction. 2016 , 93, 77-80	28
766	Neonatal prebiotic (BGOS) supplementation increases the levels of synaptophysin, GluN2A-subunits and BDNF proteins in the adult rat hippocampus. 2016 , 70, 121-4	58
765	The brain's Geppetto-microbes as puppeteers of neural function and behaviour?. 2016 , 22, 14-21	28
764	Lactobacillus rhamnosus GG Effect on Behavior of Zebrafish During Chronic Ethanol Exposure. 2016 , 5, 1-5	8
763	Early-life exercise may promote lasting brain and metabolic health through gut bacterial metabolites. 2016 , 94, 151-7	32
762	[The potential role of microbiota in major psychiatric disorders: Mechanisms, preclinical data, gastro-intestinal comorbidities and therapeutic options]. 2016 , 45, 7-19	6
761	Microbiota-gut-brain signalling in Parkinson's disease: Implications for non-motor symptoms. 2016 , 27, 1-8	112
760	The lasting impact of early-life adversity on individuals and their descendants: potential mechanisms and hope for intervention. 2016 , 15, 155-68	72
759	The effects of probiotics on mental health and hypothalamic-pituitary-adrenal axis: A randomized, double-blind, placebo-controlled trial in petrochemical workers. 2016 , 19, 387-395	138
758	Growing up in a Bubble: Using Germ-Free Animals to Assess the Influence of the Gut Microbiota on Brain and Behavior. 2016 , 19,	270
757	Posttraumatic Stress Disorder: Does the Gut Microbiome Hold the Key?. 2016 , 61, 204-13	51
756	The microbiome: A key regulator of stress and neuroinflammation. 2016 , 4, 23-33	276
755	Brain-gut-microbiota axis: challenges for translation in psychiatry. 2016 , 26, 366-72	120
754	Psychotropic effects of Lactobacillus plantarum PS128 in early life-stressed and naïve adult mice. 2016 , 1631, 1-12	143
753	Gut microbiota regulates key modulators of social behavior. 2016 , 26, 78-91	47
752	Prebiotic administration normalizes lipopolysaccharide (LPS)-induced anxiety and cortical 5-HT _{2A} receptor and IL1- β levels in male mice. 2016 , 52, 120-131	145
751	The Role of the Microbiome in the Relationship of Asthma and Affective Disorders. 2016 , 874, 263-88	8
750	Clinical and metabolic response to probiotic administration in patients with major depressive disorder: A randomized, double-blind, placebo-controlled trial. 2016 , 32, 315-20	354

749	Gut Microbiota and Brain Function: An Evolving Field in Neuroscience. 2016 , 19,	104
748	Microbes, Immunity, and Behavior: Psychoneuroimmunology Meets the Microbiome. 2017 , 42, 178-192	119
747	An overview of the effect of probiotics and exercise on mood and associated health conditions. 2017 , 57, 3887-3893	15
746	Efficacy of double-coated probiotics for irritable bowel syndrome: a randomized double-blind controlled trial. 2017 , 52, 432-443	18
745	Kynurenine pathway metabolism and the microbiota-gut-brain axis. 2017 , 112, 399-412	269
744	Mechanism of development of depression and probiotics as adjuvant therapy for its prevention and management. 2017 , 5, 40-51	12
743	Gut microbiota composition associated with alterations in cardiorespiratory fitness and psychosocial outcomes among breast cancer survivors. 2017 , 25, 1563-1570	41
742	Lactobacillus plantarum CCFM639 can prevent aluminium-induced neural injuries and abnormal behaviour in mice. 2017 , 30, 142-150	9
741	Interactions between the microbiota, immune and nervous systems in health and disease. 2017 , 20, 145-155	811
740	Microbes and mental health: A review. 2017 , 66, 9-17	223
739	Probiotic treatment reduces depressive-like behaviour in rats independently of diet. 2017 , 79, 40-48	108
738	A double-blind, randomized, placebo-controlled trial of Lactobacillus helveticus and Bifidobacterium longum for the symptoms of depression. 2017 , 51, 810-821	142
737	Human intestinal microbiota: Role in development and functioning of the nervous system. 2017 , 86, 1-18	26
736	The effects of probiotics on depressive symptoms in humans: a systematic review. 2017 , 16, 14	196
735	The link between inflammation, bugs, the intestine and the brain in alcohol dependence. 2017 , 7, e1048	90
734	A psychology of the human brain-gut-microbiome axis. 2017 , 11, e12309	81
733	The influence of a probiotic supplementation on memory in quail suggests a role of gut microbiota on cognitive abilities in birds. 2017 , 331, 47-53	25
732	Gut microbiota and depression: from pathogenesis to new therapeutic strategies. 2017 , 28, 56-62	4

731	The Microbiome in Neurogastroenterology. 2017 , 53-70	
730	Long-term multi-species Lactobacillus and Bifidobacterium dietary supplement enhances memory and changes regional brain metabolites in middle-aged rats. 2017 , 144, 36-47	41
729	Growing literature but limited evidence: A systematic review regarding prebiotic and probiotic interventions for those with traumatic brain injury and/or posttraumatic stress disorder. 2017 , 65, 57-67	38
728	Feeding Systems and the Gut Microbiome: Gut-Brain Interactions With Relevance to Psychiatric Conditions. 2017 , 58, 574-580	11
727	Microbiota in Neuropsychiatry, Part 3: Psychobiotics as Modulators of Mood Disorders. 2017 , 31, 270-273	4
726	Stress & the gut-brain axis: Regulation by the microbiome. 2017 , 7, 124-136	450
725	Bifidobacterium in the gut microbiota confer resilience to chronic social defeat stress in mice. 2017 , 7, 45942	95
724	The gut microbiota as a key regulator of visceral pain. 2017 , 158 Suppl 1, S19-S28	42
723	Daily intake of Lactobacillus gasseri CP2305 improves mental, physical, and sleep quality among Japanese medical students enrolled in a cadaver dissection course. 2017 , 31, 188-197	26
722	The Microbiome and Host Behavior. 2017 , 40, 21-49	271
721	The Host Microbiome Regulates and Maintains Human Health: A Primer and Perspective for Non-Microbiologists. 2017 , 77, 1783-1812	165
720	Inflammation-Associated Depression: Evidence, Mechanisms and Implications. 2017 ,	17
719	The gut microbiome composition associates with bipolar disorder and illness severity. 2017 , 87, 23-29	167
718	Medical comorbidity in bipolar disorder: The link with metabolic-inflammatory systems. 2017 , 211, 99-106	55
717	Evidence based selection of probiotic strains to promote astronaut health or alleviate symptoms of illness on long duration spaceflight missions. 2017 , 8, 727-737	7
716	Para-psychobiotic Lactobacillus gasseri CP2305 ameliorates stress-related symptoms and sleep quality. 2017 , 123, 1561-1570	60
715	Do bacteria shape our development? Crosstalk between intestinal microbiota and HPA axis. 2017 , 83, 458-471	85
714	Major depressive disorder and anxiety disorders from the glial perspective: Etiological mechanisms, intervention and monitoring. 2017 , 83, 474-488	26

713	Role of Gut Microbiome in Neuromodulation. 2017 , 105-122	1
712	Neurodevelopmental Disorders of the Cerebellum: Autism Spectrum Disorder. 2017 , 369-387	
711	Mode of delivery and child and adolescent psychological well-being: Evidence from Hong Kong's "Children of 1997" birth cohort. 2017 , 7, 15673	5
710	An Overview of Probiotic Research. 2017 , 293-357	1
709	Serum cortisol mediates the relationship between fecal Ruminococcus and brain N-acetylaspartate in the young pig. 2017 , 8, 589-600	56
708	Can psychobiotics intake modulate psychological profile and body composition of women affected by normal weight obese syndrome and obesity? A double blind randomized clinical trial. 2017 , 15, 135	31
707	A future perspective on neurodegenerative diseases: nasopharyngeal and gut microbiota. 2017 , 122, 306-320	9
706	Probiotics and Subclinical Psychological Symptoms in Healthy Participants: A Systematic Review and Meta-Analysis. 2017 , 23, 249-258	65
705	Lost in translation? The potential psychobiotic Lactobacillus rhamnosus (JB-1) fails to modulate stress or cognitive performance in healthy male subjects. 2017 , 61, 50-59	182
704	An introduction to microbiome analysis for human biology applications. 2017 , 29, e22931	16
703	Early life diets with prebiotics and bioactive milk fractions attenuate the impact of stress on learned helplessness behaviours and alter gene expression within neural circuits important for stress resistance. 2017 , 45, 342-357	43
702	Dairy probiotics: Beyond the role of promoting gut and immune health. 2017 , 67, 46-60	33
701	Effects of scFOS on the composition of fecal microbiota and anxiety in patients with irritable bowel syndrome: a randomized, double blind, placebo controlled study. 2017 , 29, e12911	59
700	Communicating systems in the body: how microbiota and microglia cooperate. 2017 , 150, 7-15	94
699	Microbiome-Gut-Brain Axis: Probiotics and Their Association With Depression. 2017 , 29, 39-44	48
698	Emerging Roles for the Gut Microbiome in Autism Spectrum Disorder. 2017 , 81, 411-423	293
697	Microbiome and mental health in the modern environment. 2016 , 36, 1	24
696	The third tier in treatment: Attending to the growing connection between gut health and emotional well-being. 2017 , 4, 2055102917724335	2

695	The microbiota-gut-brain axis as a key regulator of neural function and the stress response: Implications for human and animal health. 2017 , 95, 3225-3246	55
694	Probiotics or pro-healers: the role of beneficial bacteria in tissue repair. 2017 , 25, 912-922	56
693	Probiotics, prematurity and neurodevelopment: follow-up of a randomised trial. 2017 , 1, e000176	19
692	The microbiome as a novel paradigm in studying stress and mental health. 2017 , 72, 655-667	42
691	. 2017 ,	1
690	The role of microbiota in the pathogenesis of schizophrenia and major depressive disorder and the possibility of targeting microbiota as a treatment option. 2017 , 8, 100899-100907	34
689	The Role of the Brain-Gut-Microbiome in Mental Health and Mental Disorders. 2017 , 389-397	
688	Probiotic, Prebiotic, and Brain Development. 2017 , 9,	41
687	The Gut Microbiota and Autism Spectrum Disorders. 2017 , 11, 120	212
686	Effect of a probiotic beverage consumption (Enterococcus faecium CRL 183 and Bifidobacterium longum ATCC 15707) in rats with chemically induced colitis. 2017 , 12, e0175935	25
685	Human Gut Microbiota: Toward an Ecology of Disease. 2017 , 8, 1265	74
684	Cross Talk: The Microbiota and Neurodevelopmental Disorders. 2017 , 11, 490	137
683	Evidences of a New Psychobiotic Formulation on Body Composition and Anxiety. 2017 , 2017, 5650627	25
682	Does the Gut Microbiota Influence Immunity and Inflammation in Multiple Sclerosis Pathophysiology?. 2017 , 2017, 7904821	35
681	The therapeutic protection of a living and dead Lactobacillus strain against aluminum-induced brain and liver injuries in C57BL/6 mice. 2017 , 12, e0175398	13
680	The Gut-Brain Axis in Healthy Females: Lack of Significant Association between Microbial Composition and Diversity with Psychiatric Measures. 2017 , 12, e0170208	31
679	Protective Effect of Probiotic Enterococcus faecium NCIM 5593 on Acrylamide Induced Neurotoxicity in Adult Mice. 2017 , 05,	
678	Gut microbiota's effect on mental health: The gut-brain axis. 2017 , 7, 987	152

677	Gut Microbial Metabolism in Health and Disease. 2017 , 835-856	
676	Response to a Typhimurium challenge in piglets supplemented with protected sodium butyrate or : effects on performance, intestinal health and behavior. 2017 , 1, 186-200	7
675	Probiotics improve insulin resistance status in an experimental model of Alzheimer's disease. 2017 , 31, 103	11
674	Lactobacilli and bifidobacteria ameliorate memory and learning deficits and oxidative stress in Amyloid (1-42) injected rats. 2018 , 43, 718-726	114
673	Acute and repeated exposure to social stress reduces gut microbiota diversity in Syrian hamsters. 2018 , 345, 39-48	38
672	Probiotics in digestive, emotional, and pain-related disorders. 2018 , 29, 103-119	11
671	Mind-altering with the gut: Modulation of the gut-brain axis with probiotics. 2018 , 56, 172-182	85
670	The gastrointestinal tract microbiota of northern white-cheeked gibbons (<i>Nomascus leucogenys</i>) varies with age and captive condition. 2018 , 8, 3214	6
669	Nutritional modulation of the intestinal microbiota; future opportunities for the prevention and treatment of neuroimmune and neuroinflammatory disease. 2018 , 61, 1-16	31
668	Gut microbiota, metabolism and psychopathology: A critical review and novel perspectives. 2018 , 55, 283-293	17
667	Why does the microbiome affect behaviour?. 2018 , 16, 647-655	118
666	Effects of Indigenous Enterococci on the Intestinal Microbiota and the Behavior of Rats on Correction of Experimental Dysbiosis. 2018 , 48, 496-505	1
665	The effect of fecal microbiota transplantation on psychiatric symptoms among patients with irritable bowel syndrome, functional diarrhea and functional constipation: An open-label observational study. 2018 , 235, 506-512	87
664	Microbiota potential for the treatment of sexual dysfunction. 2018 , 115, 46-49	4
663	Lactobacillus plantarum MTCC 9510 supplementation protects from chronic unpredictable and sleep deprivation-induced behaviour, biochemical and selected gut microbial aberrations in mice. 2018 , 125, 257-269	33
662	The Brain-Gut-Microbiome Axis. 2018 , 6, 133-148	409
661	Targeting the Microbiota, from Irritable Bowel Syndrome to Mood Disorders: Focus on Probiotics and Prebiotics. 2018 , 6, 1-13	23
660	Benefaction of probiotics for human health: A review. 2018 , 26, 927-939	357

659	Flammulina velutipes polysaccharides improve scopolamine-induced learning and memory impairment in mice by modulating gut microbiota composition. 2018 , 9, 1424-1432	31
658	Gut Microbiota and the Neuroendocrine System. 2018 , 15, 5-22	185
657	Modulation of gut microbiota by dietary supplementation with tuna oil and algae oil alleviates the effects of D-galactose-induced ageing. 2018 , 102, 2791-2801	7
656	Probiotics: The Ultimate Nutritional Supplement. 2018 , 141-152	4
655	Correlation between gut microbiota and personality in adults: A cross-sectional study. 2018 , 69, 374-385	47
654	Targeting gut microbiome: A novel and potential therapy for autism. 2018 , 194, 111-119	64
653	Gut-Microbiota-Brain Axis and Depression. 2018 , 197-207	5
652	Current and future uses of probiotics. 2018 , 31, 29-33	1
651	The effects of probiotics on mood and emotion. 2018 , 31, 1-3	7
650	Alcohol, microbiome, and their effect on psychiatric disorders. 2018 , 85, 105-115	36
649	Relationship between the gut microbiome and brain function. 2018 , 76, 481-496	115
648	Are probiotic treatments useful on fibromyalgia syndrome or chronic fatigue syndrome patients? A systematic review. 2018 , 9, 603-611	20
647	Relationship between diet, the gut microbiota, and brain function. 2018 , 76, 603-617	27
646	Diet, gut microbiota composition and feeding behavior. 2018 , 192, 177-181	14
645	Mechanisms underlying the effects of n-3 polyunsaturated fatty acids on fear memory processing and their hypothetical effects on fear of cancer recurrence in cancer survivors. 2018 , 131, 14-23	9
644	Neuroinflammation, Gut Microbiome, and Alzheimer's Disease. 2018 , 55, 8243-8250	51
643	Gut-brain actions underlying comorbid anxiety and depression associated with inflammatory bowel disease. 2018 , 30, 275-296	64
642	[The intestinal microbiota: A new player in depression?]. 2018 , 44, 67-74	5

641	Probiotics and gastrointestinal conditions: An overview of evidence from the Cochrane Collaboration. 2018 , 45, 125-134.e11	71
640	Low Cerebral Exposure Cannot Hinder the Neuroprotective Effects of Panax Notoginsenosides. 2018 , 46, 53-65	10
639	Biochemical Features of Beneficial Microbes: Foundations for Therapeutic Microbiology. 2017 , 5,	43
638	Inflammatory Mediators in Mood Disorders: Therapeutic Opportunities. 2018 , 58, 411-428	51
637	Harnessing Gut Microbes for Mental Health: Getting From Here to There. 2018 , 83, 214-223	94
636	Habitual yoghurt consumption and depressive symptoms in a general population study of 19,596 adults. 2018 , 57, 2621-2628	9
635	Antibiotic-induced microbiota perturbation causes gut endocannabinoidome changes, hippocampal neuroglial reorganization and depression in mice. 2018 , 67, 230-245	138
634	The microbiota influences cell death and microglial colonization in the perinatal mouse brain. 2018 , 67, 218-229	39
633	Sodium butyrate triggers a functional elongation of microglial process via Akt-small RhoGTPase activation and HDACs inhibition. 2018 , 111, 12-25	34
632	Finding the needle in the haystack: systematic identification of psychobiotics. 2018 , 175, 4430-4438	45
631	Neuromicrobiology: How Microbes Influence the Brain. 2018 , 9, 141-150	30
630	Anxiety, Depression, and the Microbiome: A Role for Gut Peptides. 2018 , 15, 36-59	218
629	Periodontal, metabolic, and cardiovascular disease: Exploring the role of inflammation and mental health. 2018 , 29, 124-163	16
628	Influence of Probiotic Supplementation on Brain Function: Involvement of Gut Microbiome, Inflammation, and Stress Pathway. 2018 ,	
627	Dietary Supplementation with Fermented Milk Containing Probiotics Improves Behaviour and Immune Response of Aged Mice. 2018 , 06,	2
626	Traumatic Brain Injury in Mice Induces Acute Bacterial Dysbiosis Within the Fecal Microbiome. 2018 , 9, 2757	49
625	A randomized clinical trial examining the impact of LGG probiotic supplementation on psychological status in middle-aged and older adults. 2018 , 12, 192-197	13
624	Implication of Gut Microbiome in Brain Chemistry and Behavior. 2018 , 06,	2

623	GUT-Brain Axis and Psychiatric Disorders. 2018 , 14, 178-186	4
622	Microbiome-The Missing Link in the Gut-Brain Axis: Focus on Its Role in Gastrointestinal and Mental Health. 2018 , 7,	51
621	The Microbiome: A New Target for Research and Treatment of Schizophrenia and its Resistant Presentations? A Systematic Literature Search and Review. 2018 , 9, 1040	24
620	Infantile Colic: New Insights into an Old Problem. 2018 , 47, 829-844	17
619	Clostridium butyricum MIYAIRI 588 as Adjunctive Therapy for Treatment-Resistant Major Depressive Disorder: A Prospective Open-Label Trial. 2018 , 41, 151-155	70
618	Mind the gut: probiotics in paediatric neurogastroenterology. 2018 , 9, 883-898	14
617	Tiansi Liquid Modulates Gut Microbiota Composition and Tryptophan?Kynurenine Metabolism in Rats with Hydrocortisone-Induced Depression. 2018 , 23,	21
616	Role of Nutraceuticals in Modulation of Gut-Brain Axis in Elderly Persons. 2018 ,	1
615	Bioethics and the Hypothesis of Extended Health. 2018 , 28, 341-376	7
614	Antimicrobial activity of trans-cinnamic acid and commonly used antibiotics against important fish pathogens and nonpathogenic isolates. 2018 , 125, 1714	31
613	Le microbiote intestinal gouverne-t-il notre cerveau ?. 2018 , 176, 824-830	
612	Effect of combined bifidobacteria supplementation and resistance training on cognitive function, body composition and bowel habits of healthy elderly subjects. 2018 , 9, 843-853	46
611	Neuropsychiatric Disorders: Influence of Gut Microbe to Brain Signalling. 2018 , 6,	28
610	The Role of Milk Oligosaccharides in HostMicrobial Interactions and Their Defensive Function in the Gut. 2018 , 199-236	2
609	Biochemical Features of Beneficial Microbes: Foundations for Therapeutic Microbiology. 2018 , 1-47	
608	Microbial Metabolism in the Mammalian Gut: Molecular Mechanisms and Clinical Implications. 2018 , 66 Suppl 3, S72-S79	11
607	The Neuroendocrinology of the Microbiota-Gut-Brain Axis: A Behavioural Perspective. 2018 , 51, 80-101	122
606	Neuropsychologists as primary care providers of cognitive health: A novel comprehensive cognitive wellness service delivery model. 2018 , 25, 318-326	51

605	The Gut-Brain-Microbe Interaction: Relevance in Inflammation and Depression. 2018 , 241-252	
604	Probiotics decrease depressive behaviors induced by constipation via activating the AKT signaling pathway. 2018 , 33, 1625-1633	17
603	The anxiolytic effect of probiotics: A systematic review and meta-analysis of the clinical and preclinical literature. 2018 , 13, e0199041	47
602	Enteric Microbiota?Gut?Brain Axis from the Perspective of Nuclear Receptors. 2018 , 19,	15
601	Prenatal programming of postnatal plasticity revisited-And extended. 2018 , 30, 825-842	30
600	Absence of Gut Microbiota Reduces Emotional Reactivity in Japanese Quails (). 2018 , 9, 603	17
599	Gut-Brain Axis and Mood Disorder. 2018 , 9, 223	46
598	A Pilot Randomized Controlled Trial to Explore Cognitive and Emotional Effects of Probiotics in Fibromyalgia. 2018 , 8, 10965	48
597	Diet, Microbiome, and Neuropsychiatric Disorders. 2018 , 369-405	1
596	Economic Holobiont: Influence of Parasites, Microbiota and Chemosignals on Economic Behavior. 2018 , 12, 77	0
595	Role of Microbiota and Tryptophan Metabolites in the Remote Effect of Intestinal Inflammation on Brain and Depression. 2018 , 11,	75
594	The Microbiota-Inflammasome Hypothesis of Major Depression. 2018 , 40, e1800027	58
593	An Ontology Systems Approach on Human Brain Expression and Metaproteomics. 2018 , 9, 406	4
592	"Immune Gate" of Psychopathology-The Role of Gut Derived Immune Activation in Major Psychiatric Disorders. 2018 , 9, 205	40
591	The role of the microbiome for human health: from basic science to clinical applications. 2018 , 57, 1-14	473
590	Resilience and immunity. 2018 , 74, 28-42	80
589	Evidence for interplay among antibacterial-induced gut microbiota disturbance, neuro-inflammation, and anxiety in mice. 2018 , 11, 1386-1397	77
588	The effects of repeated antibiotic administration to juvenile BALB/c mice on the microbiota status and animal behavior at the adult age. 2018 , 4, e00644	29

587	The Microbiome in Psychology and Cognitive Neuroscience. 2018 , 22, 611-636	97
586	Interactions between species introduce spurious associations in microbiome studies. 2018 , 14, e1005939	18
585	Gut Microbiota in Brain Development and Disorders of the CNS: Therapeutic Strategies Involving Dietary Modification, Pro- and Prebiotic Intervention, and Fecal Microbiota Transplantation (FMT) Therapy. 2018 , 517-594	
584	Impact of gut microbiota on neurological diseases: Diet composition and novel treatments. 2019 , 59, 3102-3116	47
583	Early-life stress leads to sex-dependent changes in pubertal timing in rats that are reversed by a probiotic formulation. 2019 , 61, 679-687	27
582	Militarising the Mind: Assessing the Weapons of the Ultimate Battlefield. 2019 , 14, 94-122	
581	The Gut Microbiome Alterations and Inflammation-Driven Pathogenesis of Alzheimer's Disease-a Critical Review. 2019 , 56, 1841-1851	204
580	Making Sense of the Microbiome in Psychiatry. 2019 , 22, 37-52	94
579	Role of gut microbiota in brain function and stress-related pathology. 2019 , 38, 75-80	18
578	Alterations of the Brain Proteome and Gut Microbiota in d-Galactose-Induced Brain-Aging Mice with Krill Oil Supplementation. 2019 , 67, 9820-9830	9
577	Microbiota, the brain and epigenetics. 2019 , 423-443	
576	Are emotional states based in the brain? A critique of affective brainocentrism from a physiological perspective. 2019 , 34, 45	8
575	The interaction between the gut Microbiota and herbal medicines. 2019 , 118, 109252	40
574	Effects of regulating gut microbiota on the serotonin metabolism in the chronic unpredictable mild stress rat model. 2019 , 31, e13677	35
573	Metabolomic signatures and microbial community profiling of depressive rat model induced by adrenocorticotrophic hormone. 2019 , 17, 224	21
572	Prophylactic Effects of on Anxiety and Depression-Like Phenotypes After Chronic Stress: A Role of the Gut Microbiota-Inflammation Axis. 2019 , 13, 126	32
571	Parkinson's Disease: The Emerging Role of Gut Dysbiosis, Antibiotics, Probiotics, and Fecal Microbiota Transplantation. 2019 , 25, 363-376	66
570	The bidirectional relationship between host physiology and microbiota and health benefits of probiotics: A review. 2019 , 91, 426-435	23

569	The oral microbiome of early stage Parkinson's disease and its relationship with functional measures of motor and non-motor function. 2019 , 14, e0218252	31
568	Prebiotics and probiotics in atopic dermatitis. 2019 , 18, 926-931	25
567	Precision Nutrition and the Microbiome Part II: Potential Opportunities and Pathways to Commercialisation. 2019 , 11,	29
566	Inflammatory Bowel Disease: A Stressed "Gut/Feeling". 2019 , 8,	30
565	Supplementation with Increases the Maximal Oxygen Consumption and Maximal Aerobic Speed Attained by Rats Subjected to an Incremental-Speed Exercise. 2019 , 11,	11
564	Changes in human gut microbiota composition are linked to the energy metabolic switch during 10 d of Buchinger fasting. 2019 , 8, e36	29
563	The Microbiota-Gut-Brain Axis. 2019 , 99, 1877-2013	979
562	Crosstalk Between the Gut Microbiota and the Brain: An Update on Neuroimaging Findings. 2019 , 10, 883	18
561	Improvement of Redox State and Functions of Immune Cells as Well as of Behavioral Response in Aged Mice After Two-Week Supplementation of Fermented Milk with Probiotics. 2019 , 76, 1278-1289	8
560	Influence of the microbiota-gut-brain axis on behavior and welfare in farm animals: A review. 2019 , 210, 112658	44
559	Microbiome and Mental Health, Specifically as It Relates to Adolescents. 2019 , 21, 93	14
558	Probiotics for Gastrointestinal Symptoms and Quality of Life in Autism: A Placebo-Controlled Pilot Trial. 2019 , 29, 659-669	41
557	The role of the gut microbiome in mediating neurotoxic outcomes to PCB exposure. 2019 , 75, 30-40	7
556	The Gut Microbiome and Mental Health: What Should We Tell Our Patients?: Le microbiote Intestinal et la Santé Mentale : que Devrions-Nous dire à nos Patients?. 2019 , 64, 747-760	26
555	Sample Preservation and Storage Significantly Impact Taxonomic and Functional Profiles in Metaproteomics Studies of the Human Gut Microbiome. 2019 , 7,	17
554	Repeated mild traumatic brain injury affects microbial diversity in rat jejunum. 2019 , 44, 1	8
553	Microbiomes as sources of emergent host phenotypes. 2019 , 365, 1405-1409	77
552	Effect of probiotics on depressive symptoms: A meta-analysis of human studies. 2019 , 282, 112568	37

551	Corticotropin-releasing factor induces inflammatory cytokines via the NLRP6-inflammatory cytokine axis in a murine model of irritable bowel syndrome. 2019 , 20, 143-151	6
550	Exploration of microbiota targets for major depressive disorder and mood related traits. 2019 , 111, 74-82	53
549	Bifidobacterium with the role of 5-hydroxytryptophan synthesis regulation alleviates the symptom of depression and related microbiota dysbiosis. 2019 , 66, 43-51	75
548	Antidepressant-like activities of live and heat-killed <i>Lactobacillus paracasei</i> PS23 in chronic corticosterone-treated mice and possible mechanisms. 2019 , 1711, 202-213	49
547	Contextual risk factors impacting the colonization and development of the intestinal microbiota: Implications for children in low- and middle-income countries. 2019 , 61, 714-728	3
546	The Impact of Starvation on the Microbiome and Gut-Brain Interaction in Anorexia Nervosa. 2019 , 10, 41	19
545	Exercise influence on the microbiome-gut-brain axis. 2019 , 10, 555-568	45
544	Therapeutic Potential of the Microbiome in the Treatment of Neuropsychiatric Disorders. 2019 , 7,	7
543	Mechanisms of Action of Probiotics. 2019 , 10, S49-S66	312
542	Functional Beverages in Health Promotion, Sport, and Disease Prevention: An Overview. 2019 , 269-296	1
541	Development and validation of a new one step Multiplex-PCR assay for the detection of ten <i>Lactobacillus</i> species. 2019 , 59, 192-200	2
540	<i>Clostridium butyricum</i> miyairi 588 has preventive effects on chronic social defeat stress-induced depressive-like behaviour and modulates microglial activation in mice. 2019 , 516, 430-436	26
539	Probiotic consumption during puberty mitigates LPS-induced immune responses and protects against stress-induced depression- and anxiety-like behaviors in adulthood in a sex-specific manner. 2019 , 81, 198-212	43
538	Antibiotic Abuse Induced Histopathological and Neurobehavioral Disorders in Mice. 2019 , 14, 199-208	5
537	An Overview and Proposed Research Framework for Studying Co-Occurring Mental- and Physical-Health Dysfunction. 2019 , 14, 633-645	4
536	Nutraceuticals for Calming and Stress. 2019 , 417-425	0
535	The role of inflammation and the gut microbiome in depression and anxiety. 2019 , 97, 1223-1241	109
534	Gut Microbiota Disorder, Gut Epithelial and Blood-Brain Barrier Dysfunctions in Etiopathogenesis of Dementia: Molecular Mechanisms and Signaling Pathways. 2019 , 21, 205-226	25

533	Gut microbiome patterns depending on children's psychosocial stress: Reports versus biomarkers. 2019 , 80, 751-762	25
532	Effects of regulating intestinal microbiota on anxiety symptoms: A systematic review. 2019 , 32, e100056	49
531	Modification of the gut microbiome to combat neurodegeneration. 2019 , 30, 795-805	16
530	The Gut Microbiota-Brain Axis Expands Neurologic Function: A Nervous Rapport. 2019 , 41, e1800268	7
529	Do your gut microbes affect your brain dopamine?. 2019 , 236, 1611-1622	39
528	Prebiotics and probiotics for depression and anxiety: A systematic review and meta-analysis of controlled clinical trials. 2019 , 102, 13-23	144
527	Lactobacillus reuteri DSM 17938-A comparative study on the effect of probiotics and lysates on human skin. 2019 , 28, 822-828	26
526	In Vitro Probiotic and Antioxidant Potential of subsp. LL95 and Its Effect in Mice Behaviour. 2019 , 11,	8
525	Pathways linking obesity to neuropsychiatric disorders. 2019 , 66, 16-21	29
524	Diet Supplemented with Antioxidant and Anti-Inflammatory Probiotics Improves Sperm Quality after Only One Spermatogenic Cycle in Zebrafish Model. 2019 , 11,	10
523	Heat-killed strain MCC1848 confers resilience to anxiety or depression-like symptoms caused by subchronic social defeat stress in mice. 2019 , 83, 1239-1247	29
522	From isoniazid to psychobiotics: the gut microbiome as a new antidepressant target. 2019 , 80, 139-145	9
521	Stress, microbiota, and immunity. 2019 , 28, 66-71	4
520	Microbes and the Mind: How Bacteria Shape Affect, Neurological Processes, Cognition, Social Relationships, Development, and Pathology. 2019 , 14, 397-418	17
519	Development and Function of the Intestinal Microbiome and Potential Implications for Pig Production. 2019 , 9,	37
518	The gut-brain relationship: Investigating the effect of multispecies probiotics on anxiety in a randomized placebo-controlled trial of healthy young adults. 2019 , 252, 271-277	27
517	Effects of gut microbiota transfer on emotional reactivity in Japanese quails (). 2019 , 222,	7
516	A potential role for the gut microbiome in substance use disorders. 2019 , 236, 1513-1530	50

515	Probiotic food consumption is associated with lower severity and prevalence of depression: A nationwide cross-sectional study. 2019 , 63-64, 169-174	18
514	Cholesterol-lowering potentials of Lactobacillus strain overexpression of bile salt hydrolase on high cholesterol diet-induced hypercholesterolemic mice. 2019 , 10, 1684-1695	35
513	Effect of Greek-style yoghurt manufacturing processes on starter and probiotic bacteria populations during storage. 2019 , 93, 35-44	13
512	Faecalibacterium prausnitzii (ATCC 27766) has preventive and therapeutic effects on chronic unpredictable mild stress-induced depression-like and anxiety-like behavior in rats. 2019 , 104, 132-142	68
511	Pharmaceuticals from Microbes. 2019 ,	
510	Microbes, Their Metabolites, and Effector Molecules: A Pharmacological Perspective for Host-Microbiota Interaction. 2019 , 155-206	3
509	Neuro-Immune Interactions in Depression: Mechanisms and Translational Implications. 2019 , 75-88	
508	Man and the Microbiome: A New Theory of Everything?. 2019 , 15, 371-398	41
507	Psychobiotics in mental health, neurodegenerative and neurodevelopmental disorders. 2019 , 27, 632-648	67
506	Bifidobacterium infantis M-63 improves mental health in victims with irritable bowel syndrome developed after a major flood disaster. 2019 , 10, 111-120	17
505	Gut microbial metabolites in depression: understanding the biochemical mechanisms. 2019 , 6, 454-481	75
504	International Society of Sports Nutrition Position Stand: Probiotics. 2019 , 16, 62	69
503	Gut Microbiome and Modulation of CNS Function. 2019 , 10, 57-72	17
502	Ingestion of Bifidobacterium longum subspecies infantis strain CCFM687 regulated emotional behavior and the central BDNF pathway in chronic stress-induced depressive mice through reshaping the gut microbiota. 2019 , 10, 7588-7598	29
501	Gut-Brain Axis and Stress Regulation: Effects of Probiotics on Neurocognition. 2019 , 33, 312-315	
500	Psychobiotics as treatment for anxiety, depression, and related symptoms: a systematic review. 2021 , 24, 963-977	16
499	Role of environmental stressor-host immune system-pathogen interactions in development of infectious disease in farm animals. 2019 , 1-18	0
498	Potentiality of probiotic yoghurt as a functional food: A review. 2019 , 49, 182-202	22

497	Probiotics reduce risk-taking behavior in the Elevated Plus Maze in the Flinders Sensitive Line rat model of depression. 2019 , 359, 755-762	15
496	Prenatal stress enhances postnatal plasticity: The role of microbiota. 2019 , 61, 729-738	7
495	and Counts in the Gut Microbiota of Patients With Bipolar Disorder and Healthy Controls. 2018 , 9, 730	46
494	The Microbiome and Eating Disorders. 2019 , 42, 93-103	43
493	Stress matters: Randomized controlled trial on the effect of probiotics on neurocognition. 2019 , 10, 100141	46
492	Heat-killed lactobacilli alter both microbiota composition and behaviour. 2019 , 362, 213-223	42
491	Fecal Microbiota Transplantation in the Treatment-Resistant Psychiatric Disorders. 2019 , 369-376	1
490	Cross-species examination of single- and multi-strain probiotic treatment effects on neuropsychiatric outcomes. 2019 , 99, 160-197	11
489	Effect of bifidobacterium breve A-1 on anxiety and depressive symptoms in schizophrenia: A proof-of-concept study. 2019 , 245, 377-385	60
488	Effect of probiotic interventions on depressive symptoms: A narrative review evaluating systematic reviews. 2019 , 73, 154-162	24
487	Probiotic Lactobacillus plantarum P8 alleviated stress and anxiety while enhancing memory and cognition in stressed adults: A randomised, double-blind, placebo-controlled study. 2019 , 38, 2053-2064	77
486	The contribution of the gut microbiome to neurodevelopment and neuropsychiatric disorders. 2019 , 85, 216-224	48
485	Psychobiotics: A new approach for treating mental illness?. 2019 , 59, 1230-1236	47
484	The gut microbiota: A new target in the management of alcohol dependence?. 2019 , 74, 105-111	27
483	Dietary polydextrose and galactooligosaccharide increase exploratory behavior, improve recognition memory, and alter neurochemistry in the young pig. 2019 , 22, 499-512	27
482	Fermented foods, the gut and mental health: a mechanistic overview with implications for depression and anxiety. 2020 , 23, 659-671	49
481	The Impact of Probiotic Supplements on Cognitive Parameters in Euthymic Individuals with Bipolar Disorder: A Pilot Study. 2018 , 1-8	21
480	Relationships of Microbiome Markers With Extraintestinal, Psychological Distress and Gastrointestinal Symptoms, and Quality of Life in Women With Irritable Bowel Syndrome. 2020 , 54, 175-183	22

479	Effect of prebiotic and probiotic supplementation on neurodevelopment in preterm very low birth weight infants: findings from a meta-analysis. 2020 , 87, 811-822	11
478	The Effects of Probiotics on Symptoms of Depression: Protocol for a Double-Blind Randomized Placebo-Controlled Trial. 2020 , 79, 108-116	12
477	Neuroendocrinological Models of Stress and Psychopathology. 2020 , 462-486	
476	Mind and gut: Associations between mood and gastrointestinal distress in children exposed to adversity. 2020 , 32, 309-328	27
475	Anorexia nervosa: Gut microbiota-immune-brain interactions. 2020 , 39, 676-684	41
474	A review of dietary and microbial connections to depression, anxiety, and stress. 2020 , 23, 237-250	46
473	Depression's Unholy Trinity: Dysregulated Stress, Immunity, and the Microbiome. 2020 , 71, 49-78	76
472	Green Technological Fermentation for Probioticated Beverages for Health Enhancement. 2020 , 407-434	3
471	Gut microbes and metabolites as modulators of blood-brain barrier integrity and brain health. 2020 , 11, 135-157	138
470	Changes in Cold and Hot Syndrome and Gastrointestinal Bacterial Community Structure in Mice by Intervention with Food of Different Nature. 2020 , 26, 448-454	2
469	Finding intestinal fortitude: Integrating the microbiome into a holistic view of depression mechanisms, treatment, and resilience. 2020 , 135, 104578	20
468	Microbiota-dependent and -independent effects of dietary fibre on human health. 2020 , 177, 1363-1381	37
467	A Multi-strain Potential Probiotic Formulation of GABA-Producing <i>Lactobacillus plantarum</i> 90sk and <i>Bifidobacterium adolescentis</i> 150 with Antidepressant Effects. 2020 , 12, 973-979	32
466	Neuroactive compounds in foods: Occurrence, mechanism and potential health effects. 2020 , 128, 108744	72
465	Dietary phospholipids: Role in cognitive processes across the lifespan. 2020 , 111, 183-193	21
464	Gutted! Unraveling the Role of the Microbiome in Major Depressive Disorder. 2020 , 28, 26-39	56
463	A Descriptive Review on the Prevalence of Gastrointestinal Disturbances and Their Multiple Associations in Autism Spectrum Disorder. 2019 , 56,	31
462	Gut microbiome composition and diversity are related to human personality traits. 2020 , 15, None	59

461	The microbiota-gut-brain axis: An emerging role for the epigenome. 2020 , 245, 138-145	14
460	The connection between microbiome and schizophrenia. 2020 , 108, 712-731	29
459	Probiotic bacteria as modulators of cellular senescence: emerging concepts and opportunities. 2020 , 11, 335-349	14
458	Pubertal probiotic blocks LPS-induced anxiety and the associated neurochemical and microbial outcomes, in a sex dependent manner. 2020 , 112, 104481	7
457	Association between habitual weekday sleep duration and depressive symptoms among Chinese adolescents:The role of mode of birth delivery. 2020 , 265, 583-589	7
456	Probiotics and prebiotics: focus on psychiatric disorders - a systematic review. 2020 , 78, 437-450	31
455	Strain specific stress-modulating effects of candidate probiotics: A systematic screening in a mouse model of chronic restraint stress. 2020 , 379, 112376	20
454	The Circadian Clock as an Essential Molecular Link Between Host Physiology and Microorganisms. 2019 , 9, 469	19
453	Mutual Interactions among Exercise, Sport Supplements and Microbiota. 2019 , 12,	28
452	The Potential Mediation of the Effects of Physical Activity on Cognitive Function by the Gut Microbiome. 2020 , 5,	1
451	"Gut-brain axis": Review of the role of the probiotics in anxiety and depressive disorders. 2020 , 10, e01803	3
450	Gut-Brain AxisBased Treatment in Addiction. 2020 , 19, 191-191	
449	Gut microbial molecules in behavioural and neurodegenerative conditions. 2020 , 21, 717-731	67
448	Oral delivery of bacteria: Basic principles and biomedical applications. 2020 , 327, 801-833	17
447	High housing density increases stress hormone- or disease-associated fecal microbiota in male Brandt's voles (<i>Lasiopodomys brandtii</i>). 2020 , 126, 104838	10
446	Nutraceuticals and probiotics in the management of psychiatric and neurological disorders: A focus on microbiota-gut-brain-immune axis. 2020 , 90, 403-419	6
445	The Microbiome-Metabolome Response in the Colon of Piglets Under the Status of Weaning Stress. 2020 , 11, 2055	10
444	Autism Spectrum Disorder Associated With Gut Microbiota at Immune, Metabolomic, and Neuroactive Level. 2020 , 14, 578666	25

443	Antidepressant-like effects of Schisandrin on lipopolysaccharide-induced mice : Gut microbiota, short chain fatty acid and TLR4/NF- κ B signaling pathway. 2020 , 89, 107029	5
442	[Gut microbiome and anorexia nervosa : The relationship between microbiome and gut-brain interaction in the context of anorexia nervosa]. 2020 , 91, 1115-1121	1
441	Supplementation with Combined R0052 and R0175 Across Development Reveals Sex Differences in Physiological and Behavioural Effects of Western Diet in Long-Evans Rats. 2020 , 8,	9
440	Nutrients and Nutraceuticals for Active & Healthy Ageing. 2020 ,	
439	Reduced anti-inflammatory gut microbiota are associated with depression and anhedonia. 2020 , 266, 394-401	33
438	Efficacy of probiotics on stress in healthy volunteers: A systematic review and meta-analysis based on randomized controlled trials. 2020 , 10, e01699	16
437	Sex Differences in the Gut-Brain Axis: Implications for Mental Health. 2020 , 22, 83	15
436	Mini-Review on Lipofuscin and Aging: Focusing on The Molecular Interface, The Biological Recycling Mechanism, Oxidative Stress, and The Gut-Brain Axis Functionality. 2020 , 56,	1
435	Update of Probiotics in Human World: A Nonstop Source of Benefactions till the End of Time. 2020 , 8,	41
434	From probiotics to psychobiotics - the gut-brain axis in psychiatric disorders. 2020 , 11, 717-732	16
433	The Microbiota-Gut-Immune-Glia (MGIG) Axis in Major Depression. 2020 , 57, 4269-4295	19
432	A dynamic mouse peptidome landscape reveals probiotic modulation of the gut-brain axis. 2020 , 13,	10
431	Crosstalk between the microbiota-gut-brain axis and depression. 2020 , 6, e04097	32
430	Identification of a Signaling Mechanism by Which the Microbiome Regulates Th17 Cell-Mediated Depressive-Like Behaviors in Mice. 2020 , 177, 974-990	21
429	Probiotics function and modulation of the immune system in allergic diseases. 2020 , 48, 771-788	22
428	Colonization with the commensal fungus <i>Candida albicans</i> perturbs the gut-brain axis through dysregulation of endocannabinoid signaling. 2020 , 121, 104808	10
427	Neurological and cognitive significance of probiotics: a holy grail deciding individual personality. 2020 , 15, 1059-1074	4
426	Dysfunction of the Microbiota-Gut-Brain Axis in Neurodegenerative Disease: The Promise of Therapeutic Modulation With Prebiotics, Medicinal Herbs, Probiotics, and Synbiotics. 2020 , 25, 2515690X20957225	20

425	Probiotics in Treatment of Viral Respiratory Infections and Neuroinflammatory Disorders. 2020 , 25,	20
424	Probiotics: A Dietary Factor to Modulate the Gut Microbiome, Host Immune System, and Gut-Brain Interaction. 2020 , 8,	22
423	Biological Consequences of Psychological Distress in Caregivers of Children with Autism Spectrum Disorder and its Potential Relevance to Other Chronic Diseases Including Cancer. 2020 , 7, 139-148	1
422	The Potential Effects of Probiotics and ω 3 Fatty Acids on Chronic Low-Grade Inflammation. 2020 , 12,	22
421	Effect of regulating gut microbiota using probiotics on functional changes in the brain: protocol for a systematic review. 2020 , 10, e037582	2
420	Association Between Tail-Biting and Intestinal Microbiota Composition in Pigs. 2020 , 7, 563762	5
419	Psychobiotics: Mechanisms of Action, Evaluation Methods and Effectiveness in Applications with Food Products. 2020 , 12,	16
418	Association of Mediterranean Diet Adherence, Functional Food Consumption and Anthropometric Characteristics with Anxiety and Depression Indexes in a Sample of Healthy Greek Adults: A Cross-Sectional Study. 2020 , 1, 135-149	4
417	Probiotics Exert Protective Effect against Sepsis-Induced Cognitive Impairment by Reversing Gut Microbiota Abnormalities. 2020 , 68, 14874-14883	9
416	A Probiotic Mixture Induces Anxiolytic- and Antidepressive-Like Effects in Fischer and Maternally Deprived Long Evans Rats. 2020 , 14, 581296	4
415	Lpc-37 \square improves psychological and physiological markers of stress and anxiety in healthy adults: a randomized, double-blind, placebo-controlled and parallel clinical trial (the Sisu study). 2020 , 13, 100277	9
414	Probiotic Lactobacillus fermentum strain JDFM216 improves cognitive behavior and modulates immune response with gut microbiota. 2020 , 10, 21701	16
413	The potential of human milk oligosaccharides to impact the microbiota-gut-brain axis through modulation of the gut microbiota. 2020 , 74, 104176	10
412	High-Dietary Fiber Intake Alleviates Antenatal Obesity-Induced Postpartum Depression: Roles of Gut Microbiota and Microbial Metabolite Short-chain Fatty Acid Involved. 2020 , 68, 13697-13710	18
411	Nutrition, Microbiota and Role of Gut-Brain Axis in Subjects with Phenylketonuria (PKU): A Review. 2020 , 12,	5
410	Sex Bias in Gut Microbiome Transmission in Newly Paired Marmosets (Callithrix jacchus). 2020 , 5,	15
409	Association between Gut Microbiota and Infant's Temperament in the First Year of Life in a Chinese Birth Cohort. 2020 , 8,	6
408	Recipe for a Healthy Gut: Intake of Unpasteurised Milk Is Associated with Increased Abundance in the Human Gut Microbiome. 2020 , 12,	19

407	The role of the microbiome in the neurobiology of social behaviour. 2020 , 95, 1131-1166	30
406	Maternal prenatal psychological distress and hair cortisol levels associate with infant fecal microbiota composition at 2.5 months of age. 2020 , 119, 104754	12
405	Probiotic treatment for women with gestational diabetes to improve maternal and infant health and well-being. 2020 , 6, CD012970	5
404	Could Gut Modulation through Probiotic Supplementation Be Beneficial in Autism Spectrum Disorder?. 2020 ,	1
403	Evaluation of Probiotics for Warfighter Health and Performance. 2020 , 7, 70	10
402	Effects of chronic treatment with new strains of <i>Lactobacillus plantarum</i> on cognitive, anxiety- and depressive-like behaviors in male mice. 2020 , 15, e0234037	13
401	Investigation of the effects of probiotic, <i>Bacillus subtilis</i> on stress reactions in laying hens using infrared thermography. 2020 , 15, e0234117	2
400	A Pilot Randomized Control Trial With the Probiotic Strain GG (LGG) in ADHD: Children and Adolescents Report Better Health-Related Quality of Life. 2020 , 11, 181	14
399	Ketamine. 2020 ,	1
398	The potential of proteins, hydrolysates and peptides as growth factors for <i>Lactobacillus</i> and <i>Bifidobacterium</i> : current research and future perspectives. 2020 , 11, 1946-1957	18
397	The Role of the Gut Microbiota in Dietary Interventions for Depression and Anxiety. 2020 , 11, 890-907	38
396	Targeting Gut Microbiota Dysbiosis: Potential Intervention Strategies for Neurological Disorders. 2020 , 6, 415-423	16
395	The microbiome and host behaviour. 2020 , 98-121	1
394	Scaffold hopping of agomelatine leads to enhanced antidepressant effects by modulation of gut microbiota and host immune responses. 2020 , 192, 172910	4
393	Inflammation in Mental Disorders: Is the Microbiota the Missing Link?. 2020 , 36, 1071-1084	4
392	Flavonoid-Rich Orange Juice Intake and Altered Gut Microbiome in Young Adults with Depressive Symptom: A Randomized Controlled Study. 2020 , 12,	18
391	Intermingling of gut microbiota with brain: Exploring the role of probiotics in battle against depressive disorders. 2020 , 137, 109489	10
390	Lactic acid bacteria feeding reversed the malformed eye structures and ameliorated gut microbiota profiles of <i>Drosophila melanogaster</i> Alzheimer's Disease model. 2020 ,	6


389	A systematic review of the effects of probiotic administration in inflammatory arthritis. 2020 , 40, 101207	5
388	Molecular evolutionary and 3D protein structural analyses of <i>Lactobacillus fermentum</i> elongation factor Tu, a novel brain health promoting factor. 2020 , 112, 3915-3924	1
387	Microbial Diversity, Interventions and Scope. 2020 ,	1
386	Human Gut Microbiota and Mental Health: Advancements and Challenges in Microbe-Based Therapeutic Interventions. 2020 , 60, 405-419	5
385	<i>Bifidobacterium longum</i> R0175 Protects Rats against d-Galactosamine-Induced Acute Liver Failure. 2020 , 5,	9
384	Precision medicine in perinatal depression in light of the human microbiome. 2020 , 237, 915-941	7
383	Probiotics maintain the intestinal microbiome homeostasis of the sailors during a long sea voyage. 2020 , 11, 930-943	15
382	Investigating the gut-brain axis in a neurodevelopmental rodent model of schizophrenia. 2020 , 3, 100048	3
381	Treating impulsivity with probiotics in adults (PROBIA): study protocol of a multicenter, double-blind, randomized, placebo-controlled trial. 2020 , 21, 161	7
380	Heat-killed <i>Enterococcus fecalis</i> (EC-12) supplement alters the expression of neurotransmitter receptor genes in the prefrontal cortex and alleviates anxiety-like behavior in mice. 2020 , 720, 134753	8
379	Psychobiotics Regulate the Anxiety Symptoms in Carriers of Allele A of IL-1 Gene: A Randomized, Placebo-Controlled Clinical Trial. 2020 , 2020, 2346126	12
378	and ameliorate progression of non-alcoholic fatty liver disease through modulation of the gut microbiome. 2020 , 11, 882-899	28
377	Delaying memory decline: different options and emerging solutions. 2020 , 10, 13	7
376	The progress of gut microbiome research related to brain disorders. 2020 , 17, 25	123
375	Updated review of research on the gut microbiota and their relation to depression in animals and human beings. 2020 , 25, 2759-2772	37
374	Dysregulation of synaptic pruning as a possible link between intestinal microbiota dysbiosis and neuropsychiatric disorders. 2020 , 98, 1335-1369	24
373	Nigerian foods of probiotics relevance and chronic metal exposure: a systematic review. 2020 , 27, 19285-19297	5
372	Efficacy of HA-196 and R0175 in Alleviating Symptoms of Irritable Bowel Syndrome (IBS): A Randomized, Placebo-Controlled Study. 2020 , 12,	18

371	Reduction in the Choking Phenomenon in Elite Diving Athletes Through Changes in Gut Microbiota Induced by Yogurt Containing subsp. BB-12: A Quasi Experimental Study. 2020 , 8,	1
370	The HPA axis dysregulation in severe mental illness: Can we shift the blame to gut microbiota?. 2020 , 102, 109951	51
369	Effects of Three Distinct 2-Week Long Diet Strategies After Transport on Weaned Pigs' Short and Long-Term Welfare Markers, Behaviors, and Microbiota. 2020 , 7, 140	3
368	Perioperative probiotic treatment decreased the incidence of postoperative cognitive impairment in elderly patients following non-cardiac surgery: A randomised double-blind and placebo-controlled trial. 2021 , 40, 64-71	11
367	Diet and depression: exploring the biological mechanisms of action. 2021 , 26, 134-150	66
366	Probiotics treatment improves cognitive impairment in patients and animals: A systematic review and meta-analysis. 2021 , 120, 159-172	13
365	Responses to chronic corticosterone on brain glucocorticoid receptors, adrenal gland, and gut microbiota in mice lacking neuronal serotonin. 2021 , 1751, 147190	2
364	Gut-brain axis: A matter of concern in neuropsychiatric disorders 2021 , 104, 110051	15
363	The gut microbiota-brain axis in behaviour and brain disorders. 2021 , 19, 241-255	207
362	Emerging role of Gut-microbiota-brain axis in depression and therapeutic implication. 2021 , 106, 110138	7
361	subsp. BB-12 Improves the State Anxiety and Sports Performance of Young Divers Under Stress Situations: A Single-Arm, Prospective Proof-of-Concept Study. 2020 , 11, 570298	2
360	The gut-brain axis in irritable bowel syndrome and inflammatory bowel disease. 2021 , 53, 298-305	4
359	Emotion context insensitivity in depression: Toward an integrated and contextualized approach. 2021 , 58, e13715	8
358	Effect of a novel nutraceutical supplement (Relaxigen Pet dog) on the fecal microbiome and stress-related behaviors in dogs: A pilot study. 2021 , 42, 37-47	1
357	A preliminary study of gut microbiome variation and HPA axis reactivity in healthy infants. 2021 , 124, 105046	6
356	Volatility as a Concept to Understand the Impact of Stress on the Microbiome. 2021 , 124, 105047	18
355	Improvements in sleep indices during exam stress due to consumption of a. 2021 , 10, 100174	4
354	Narrative review on potential role of gut microbiota in certain substance addiction. 2021 , 106, 110093	5

353	The effects of psychobiotics on the microbiota-gut-brain axis in early-life stress and neuropsychiatric disorders. 2021 , 105, 110142	12
352	Human-Derived Bifidobacterium dentium Modulates the Mammalian Serotonergic System and Gut-Brain Axis. 2021 , 11, 221-248	26
351	Shotgun metagenomics reveals both taxonomic and tryptophan pathway differences of gut microbiota in major depressive disorder patients. 2021 , 51, 90-101	29
350	Gut microbiota-brain axis in depression: The role of neuroinflammation. 2021 , 53, 222-235	54
349	Dysbiosis of Gut Microbiota and Activity of KYN Pathway as Potential Biomarkers in Patients With Major Depressive Disorder.	
348	The Role of Probiotics and Synbiotics on Hirsutism. 2021 , 7, 10	1
347	The contribution of gut microbiota in the pathogenesis of Parkinson's disease. 2021 , 123-141	
346	Bifidobacteria and Psychobiotic Therapy: Current Evidence and Future Prospects. 2021 , 9, 74-91	1
345	Stress Hormones and the Gut Microbiota Composition and Function. 2021 , 411-411	
344	Probiotics for Atopic Dermatitis. 2021 , 335-362	
343	Animal Models for Probiotic Interventions Under Gut Inflammatory Conditions. 2021 , 85-121	1
342	Gut Microbiota in Brain diseases. 2021 , 253-253	
341	Psychobiotics: The Next-Generation Probiotics for the Brain. 2021 , 78, 449-463	6
340	Promising Prospects of Probiotics and Postbiotics Derived from Lactic Acid Bacteria as Pharma Foods. 2021 , 337-350	
339	Early Life Events With Microbiota Mediated Effects on Brain Functions. 2021 , 39-39	
338	Insights on the modulatory role of Ayurveda-based herbal preparations on gut microbiome and neuroprotection. 2021 , 287-318	
337	Role of Probiotic Microbes Exerting Nutritional Properties. 2021 , 163-184	
336	Psychobiotics: A Newer Approach Toward the Treatment of Neurodevelopmental Disorders. 2021 , 203-216	

335	Cancer Related Anemia: An Integrated Multitarget Approach and Lifestyle Interventions. 2021 , 13,	2
334	Features of the gut microbiota in ulcerative colitis patients with depression: A pilot study. 2021 , 100, e24845	10
333	Ingestion of probiotic (<i>Lactobacillus helveticus</i> and <i>Bifidobacterium longum</i>) alters intestinal microbial structure and behavioral expression following social defeat stress. 2021 , 11, 3763	14
332	Interplay of Good Bacteria and Central Nervous System: Cognitive Aspects and Mechanistic Considerations. 2021 , 15, 613120	16
331	Rubidium chloride modulated the fecal microbiota community in mice. 2021 , 21, 46	1
330	Effects of Microbiota Imbalance in Anxiety and Eating Disorders: Probiotics as Novel Therapeutic Approaches. 2021 , 22,	3
329	Exploring the Potential Role of the Gut Microbiome in Chemotherapy-Induced Neurocognitive Disorders and Cardiovascular Toxicity. 2021 , 13,	8
328	The Volatile Oil of Pericarp Improved the Hypothalamic-Pituitary-Adrenal Axis and Gut Microbiota to Attenuate Chronic Unpredictable Stress-Induced Anxiety Behavior in Rats. 2021 , 15, 769-786	0
327	The brain-gut axis: A prime therapeutic target in traumatic brain injury. 2021 , 1753, 147225	2
326	Differences in the Gut Microbiome of Women With and Without Hypoactive Sexual Desire Disorder: Case Control Study. 2021 , 23, e25342	1
325	The Efficacy, Safety, and Tolerability of Probiotics on Depression: Clinical Results From an Open-Label Pilot Study. 2021 , 12, 618279	17
324	Probiotic Ameliorates Antibiotic-Associated Anxiety Responses in Mice. 2021 , 13,	4
323	Relationship between gut microbiota and host-metabolism: Emphasis on hormones related to reproductive function. 2021 , 7, 1-10	8
322	Tryptophan Metabolism and Gut-Brain Homeostasis. 2021 , 22,	27
321	The Microbiome-Gut-Brain Axis and Resilience to Developing Anxiety or Depression under Stress. 2021 , 9,	15
320	The role of probiotics in combination therapy of depressive disorders. 2021 , 10,	1
319	Psychobiotic Supplementation of PS128 Improves Stress, Anxiety, and Insomnia in Highly Stressed Information Technology Specialists: A Pilot Study. 2021 , 8, 614105	9
318	The Influence of Probiotic Supplementation on Depressive Symptoms, Inflammation, and Oxidative Stress Parameters and Fecal Microbiota in Patients with Depression Depending on Metabolic Syndrome Comorbidity-PRO-DEMET Randomized Study Protocol. 2021 , 10,	2

317	Role of the Intestinal Microbiome, Intestinal Barrier and Psychobiotics in Depression. 2021 , 13,	14
316	Bifidobacterium Lactis Probio-M8 regulates gut microbiota to alleviate Alzheimer's disease in the APP/PS1 mouse model. 2021 , 60, 3757-3769	9
315	Differential Health Effects on Inflammatory, Immunological and Stress Parameters in Professional Soccer Players and Sedentary Individuals after Consuming a Synbiotic. A Triple-Blinded, Randomized, Placebo-Controlled Pilot Study. 2021 , 13,	6
314	Probiotics as a Treatment for "Metabolic Depression"? A Rationale for Future Studies. 2021 , 14,	3
313	Metabarcoding analysis of gut microbiota of healthy individuals reveals impact of probiotic and maltodextrin consumption. 2021 , 12, 121-136	1
312	Maternal immune activation alters adult behavior, intestinal integrity, gut microbiota and the gut inflammation. 2021 , 11, e02133	6
311	Gut feelings about bacterial steroid-17,20-desmolase. 2021 , 525, 111174	2
310	The Microbiota-Gut-Brain Axis: From Motility to Mood. 2021 , 160, 1486-1501	69
309	The Potential Impact of Selected Bacterial Strains on the Stress Response. 2021 , 9,	0
308	Gut microbiota-derived vitamins - underrated powers of a multipotent ally in psychiatric health and disease. 2021 , 107, 110240	14
307	The metabolic profile of Bifidobacterium dentium reflects its status as a human gut commensal. 2021 , 21, 154	4
306	Probiotics-induced changes in gut microbial composition and its effects on cognitive performance after stress: exploratory analyses. 2021 , 11, 300	16
305	The Putative Antidepressant Mechanisms of Probiotic Bacteria: Relevant Genes and Proteins. 2021 , 13,	10
304	Exploring the Role and Potential of Probiotics in the Field of Mental Health: Major Depressive Disorder. 2021 , 13,	6
303	Probiotic consumption relieved human stress and anxiety symptoms possibly via modulating the neuroactive potential of the gut microbiota. 2021 , 14, 100294	22
302	Gut Microbiota Changes in Patients With Major Depressive Disorder Treated With Vortioxetine. 2021 , 12, 641491	4
301	Dietary Influence on the Dynamics of the Human Gut Microbiome: Prospective Implications in Interventional Therapies. 2021 , 1, 717-736	4
300	Effect of Oat β -Glucan on Affective and Physical Feeling States in Healthy Adults: Evidence for Reduced Headache, Fatigue, Anxiety and Limb/Joint Pains. 2021 , 13,	1

299	Short-chain fatty acids-producing probiotics: A novel source of psychobiotics. 2021 , 1-31	5
298	The role of the microbiota-gut-brain axis in neuropsychiatric disorders. 2021 , 43, 293-305	27
297	Different types of packaging influence sensory profile of Canastra artisanal cheese. 2021 , 28, 100673	1
296	The impact of dietary macronutrient intake on cognitive function and the brain. 2021 , 40, 3999-4010	7
295	-Based Probiotics Reduce the Adverse Effects of Stress in Rodents: A Meta-analysis. 2021 , 15, 642757	3
294	Neurotransmitter Profiles Are Altered in the Gut and Brain of Mice Mono-Associated with. 2021 , 11,	3
293	Probiotics-targeting new milestones from gut health to mental health. 2021 , 368,	2
292	Microbiota and epigenetics: promising therapeutic approaches?. 2021 , 28, 49343-49361	6
291	Gut microbiota alteration and modulation in psychiatric disorders: Current evidence on fecal microbiota transplantation. 2021 , 109, 110258	15
290	 2021 , 26, 152-159	
289	The gut microbiome is associated with cocaine behavior and predicts addiction vulnerability in adult male rats.	0
288	The GutBrain Axis and Peroxisome Proliferator-Activated Receptors in the Regulation of Epileptogenesis. 2021 , 57, 743-760	
287	Mannan oligosaccharide attenuates cognitive and behavioral disorders in the 5xFAD Alzheimer's disease mouse model via regulating the gut microbiota-brain axis. 2021 , 95, 330-343	18
286	The Microbiota-Gut-Brain Axis and Epilepsy. 2021 , 1	7
285	Towards Tailored Gut Microbiome-Based and Dietary Interventions for Promoting the Development and Maintenance of a Healthy Brain. 2021 , 9, 705859	2
284	Effects of Probiotic NVP-1704 on Mental Health and Sleep in Healthy Adults: An 8-Week Randomized, Double-Blind, Placebo-Controlled Trial. 2021 , 13,	5
283	Potential gut-brain mechanisms behind adverse mental health outcomes of bariatric surgery. 2021 , 17, 549-559	6
282	Maternal effects in mammals: Broadening our understanding of offspring programming. 2021 , 62, 100924	5

281	Probiotics in Prevention and Treatment of COVID-19: Current Perspective and Future Prospects. 2021 , 52, 582-594	16
280	Fecal Transplant and Treatments Modulate Gut Bacteria and Rescue Social Impairment and Hippocampal BDNF Expression in a Rodent Model of Autism. 2021 , 11,	14
279	Integrated Analyses of the Gut Microbiota, Intestinal Permeability, and Serum Metabolome Phenotype in Rats with Alcohol Withdrawal Syndrome. 2021 , 87, e0083421	0
278	The Gut-Brain Axis: Literature Overview and Psychiatric Applications. 2021 , 38, 356-362	1
277	A Microbiome-Driven Approach to Combating Depression During the COVID-19 Pandemic. 2021 , 8, 672390	1
276	Potential anti-aging effects of fermented wheat germ in aging mice. 2021 , 42, 101182	1
275	Mechanisms affecting brain remodeling in depression: do all roads lead to impaired fibrinolysis?. 2021 ,	4
274	The Effect of a Probiotic Complex on the Gut-Brain Axis: A Translational Study. 2021 , 1-11	3
273	Probiotic Bacteria in the Correction of Depression Symptoms, Their Active Genes and Proteins. 2021 , 57, 1017-1025	1
272	Gut Microbiome: A Potential Indicator for Differential Diagnosis of Major Depressive Disorder and General Anxiety Disorder. 2021 , 12, 651536	3
271	Probiotics: Potential novel therapeutics for microbiota-gut-brain axis dysfunction across gender and lifespan. 2021 , 231, 107978	1
270	Role of the gut microbiome in chronic diseases: a narrative review. 2021 ,	15
269	L-Carnitine and Acetyl-L-Carnitine: Potential Novel Biomarkers for Major Depressive Disorder. 2021 , 12, 671151	1
268	Dietary fibre and the gut-brain axis: microbiota-dependent and independent mechanisms of action. 1-39	0
267	NK112 mitigates -induced depression and cognitive impairment in mice by regulating IL-6 expression and gut microbiota. 2021 , 12, 541-551	3
266	Proneurogenic and neuroprotective effect of a multi strain probiotic mixture in a mouse model of acute inflammation: Involvement of the gut-brain axis. 2021 , 172, 105795	2
265	Effects of probiotics on pentylenetetrazol-induced convulsions in mice. 2021 , 176, 106723	2
264	The role of microbiota-gut-brain axis in neuropsychiatric and neurological disorders. 2021 , 172, 105840	17

263	Exercise training and probiotic supplementation effects on skeletal muscle apoptosis prevention in type-2 diabetic rats. 2021 , 285, 119973	
262	Gut microbiota and neuropsychiatric disorders: Implications for neuroendocrine-immune regulation. 2021 , 173, 105909	1
261	The gut microbiome: implications for neurogenesis and neurological diseases. 2022 , 17, 53-58	5
260	Gut microbiota in mental health and depression: role of pre/pro/synbiotics in their modulation. 2021 , 12, 4284-4314	5
259	The Immunopathogenesis of Alzheimer's Disease Is Related to the Composition of Gut Microbiota. 2021 , 13,	19
258	Immunity and Gut Microbiome: Role of Probiotics and Prebiotics. 2021 , 61-83	0
257	Prenatal Programming of Postnatal Plasticity. 2021 , 349-385	0
256	Probiotics and their importance for human health. 2021 , 1, 26	
255	Bibliometric and Visual Analysis of Research on the Links Between the Gut Microbiota and Depression From 1999 to 2019. 2020 , 11, 587670	12
254	Gut microbiota and brain function and pathophysiology. 2021 , 335-354	
253	Microbiota-Gut-Brain Axis. 2021 , 423-423	
252	Nutraceuticals in anxiety and stress. 2021 , 63-72	1
251	The Effect of Synbiotic and Probiotic Supplementation on Mental Health Parameters in Patients Undergoing Hemodialysis: A Double-blind, Randomized, Placebo-controlled Trial. 2021 , 31, 149-156	0
250	Lactic Acid Bacteria in Health and Disease. 2014 , 303-374	6
249	Development of the Quantified Human. 2014 , 181-205	1
248	The Role of Gut Microbiota in the Antidepressant Effects of Ketamine. 2020 , 127-141	2
247	Microbes in Pharmaceutical Industry. 2020 , 259-299	6
246	Immune-Kynurenine Pathways and the Gut Microbiota-Brain Axis in Anxiety Disorders. 2020 , 1191, 155-167	11

245	Psychobiotics. 2019 , 1192, 565-581	5
244	Microbes and the womb: does it matter?. 2020 , 1-20	1
243	Microbial communities modulating brain functioning and behaviors in zebrafish: A mechanistic approach. 2020 , 145, 104251	7
242	Probiotic attributes, antioxidant, anti-inflammatory and neuromodulatory effects of <i>Enterococcus faecium</i> CFR 3003: in vitro and in vivo evidence. 2015 , 64, 1527-1540	48
241	Probiotic consumption relieved human stress and anxiety symptoms via modulating the gut microbiota and neuroactive potential.	1
240	Stress matters: a double-blind, randomized controlled trial on the effects of a multispecies probiotic on neurocognition.	2
239	In-vitro pathogen inhibition: Comparing the inhibitory effects of a complex multistrain synbiotic with simple probiotics containing the yeast <i>Saccharomyces boulardii</i> or <i>Lactobacillus rhamnosus</i> bacteria.	1
238	Two gut microbes are necessary and sufficient for normal cognition in <i>Drosophila melanogaster</i> .	4
237	Biodiversity, the Human Microbiome and Mental Health: Moving toward a New Clinical Ecology for the 21st Century?. 2016 , 2016, 1-18	18
236	New Probiotics: Dairy Propionibacteria and the Modulation of Gut Microbiota and Physiology. 2014 , 130-155	0
235	Anti-infective potential of hydroalcoholic extract of ´ peel against gram-negative bacterial pathogens. 2019 , 8, 70	9
234	Anti-infective potential of hydroalcoholic extract of <i>Punica ´granatum</i> peel against gram-negative bacterial pathogens. 2019 , 8, 70	8
233	Gut microbiota varies by opioid use, circulating leptin and oxytocin in African American men with diabetes and high burden of chronic disease. 2018 , 13, e0194171	44
232	Microbiota-immune interactions: from gut to brain. 2020 , 7, 1-23	7
231	The gut microbiota in neuropsychiatric disorders. 2018 , 78, 69-81	31
230	The Effects of Probiotics and Prebiotics on Mental Disorders: A Review on Depression, Anxiety, Alzheimer, and Autism Spectrum Disorders. 2020 , 21, 555-565	42
229	Periodontal Pathogens and Neuropsychiatric Health. 2020 , 20, 1353-1397	7
228	Probiotic supplementation improves the cognitive function and the anxiety-like behaviors in the stressed rats. 2019 , 22, 506-514	15

- 227 Probiyotik ve Prebiyotiklerin BaEşak-Beyin AksEa Etkisi. 269-280 2
- 226 A Gut Feeling: The Importance of the Intestinal Microbiota in Psychiatric Disorders. **2020**, 11, 510113 5
- 225 Antidepressive Mechanisms of Probiotics and Their Therapeutic Potential. **2019**, 13, 1361 41
- 224 The Brain-Gut-Microbiome Axis in Psychiatry. **2020**, 21, 7
- 223 Can a Bug in the Gut Act Like a Drug in the Brain?. **2015**, 53, 22-4 1
- 222 Effects of a Psychobiotic Supplement on Serum Brain-derived Neurotrophic Factor Levels in Depressive Patients: A Analysis of a Randomized Clinical Trial. **2020**, 26, 486-495 12
- 221 Alteration of Gut Microbiota in Autism Spectrum Disorder: An Overview. **2020**, 31, 131-145 10
- 220 Bigels-oleocolloid matrices-as probiotic protective systems in yogurt. **2021**, 86, 4892-4900 5
- 219 Friendly bacteria cheer up anxious mice.
- 218 The Role of Lactic Acid Bacteria in the Pathophysiology and Treatment of Irritable Bowel Syndrome (IBS). **2013**, 04, 27-39
- 217 The Future of Prebiotics and Probiotics. **2013**, 464-493
- 216 Nutraceutical Regulation of the Neuroimmunoendocrine Super-system. **2014**, 415-437
- 215 Complements and Alternatives to Psychopharmacology During Pregnancy. **2014**, 197-208
- 214 Relationship of Probiotics, Prebiotics, Synbiotics to Infections, Immunity, and Nutrition. **2014**, 287-308
- 213 The Rationale for Treating with a Broad Spectrum of Minerals and Vitamins. **2015**, 263-278
- 212 Interactions between species introduce spurious associations in microbiome studies.
- 211 Les psychobiotiques contre le stress. **2018**, 14, 31-33
- 210 Les psychobiotiques. Eudes chez lEomme. **2018**, 16, 336-341

209	Empathy as a Concept from Bench to Bedside: A Translational Challenge. 2020 , 57, 71-77	2
208	Therapeutic Potential and Recent Development of Psychobiotics for the Management of Brain Disorders. 2019 , 14, 70-79	1
207	Optimal Criteria for the Selection of Probiotics, Based on their Mode of Action. 2019 , 63, 60-69	0
206	Associations Between the Gut Microbiota and Internalizing Behaviors in Preschool Children. 2021 ,	0
205	Probióticos na redução de sintomas de ansiedade e depressão: uma revisão integrativa. 2020 , 10, 97-108	
204	The Microbiome and Brain Health. 2020 , 391-406	
203	Dietary Fiber and Aging. 2020 , 111-145	1
202	Metabolic Pathways Underlying Neuropsychiatric Disorders and Obesity. 2020 , 415-426	
201	Impact of Human Microbiome on Health. 2020 , 349-373	0
200	Affective Disorders. 2020 , 1063-1081.e7	
199	The Effect of Probiotic Intervention in Ameliorating the Altered Central Nervous System Functions in Neurological Disorders: A Review. 2020 , 14, 18-29	2
198	Colonization with the commensal fungus <i>Candida albicans</i> perturbs the gut-brain axis through dysregulation of endocannabinoid signaling.	
197	Targeting DNA Methylation in the Adult Brain through Diet. 2021 , 13,	1
196	Development of the Korean Form of the Premonitory Urge for Tics Scale: A Reliability and Validity Study. 2020 , 31, 146-153	1
195	Probiotics-induced changes in gut microbial composition and its effects on cognitive performance after stress.	
194	Microbiological Modification Therapy For Acute Medical Presentations Of Generalised Anxiety Disorder. 2020 , 11, 67-78	
193	Differences in the Gut Microbiome of Women With and Without Hypoactive Sexual Desire Disorder: Case Control Study (Preprint).	
192	Part 2: Treatments for Chronic Gastrointestinal Disease and Gut Dysbiosis. 2015 , 14, 25-33	8

191	Synbiotics and gastrointestinal function-related quality of life after elective colorectal cancer resection. 2016 , 29, 56-62	26
190	Integrative Therapies in Anxiety Treatment with Special Emphasis on the Gut Microbiome. 2016 , 89, 397-422	24
189	Probiotics and Disease: A Comprehensive Summary-Part 1, Mental and Neurological Health. 2016 , 15, 46-58	2
188	The Gut-Brain Axis: Influence of Microbiota on Mood and Mental Health. 2018 , 17, 28-32	18
187	Role of spp. intake in improving depressive mood and well-being and its link to kynurenine blood level: an interventional study. 2021 ,	1
186	Microbiome therapeutics: exploring the present scenario and challenges.. 2022 , 10, goab046	4
185	COVID-19 Pandemic and Mental Illness: Impact of Gut Microbiota. 2021 , 349-368	
184	Gut-Brain Axis: Probiotic Interactions and Implications for Human Mental Health. 2022 , 261-280	
183	Probiotic Mechanism to Modulate the Gut-Brain Axis (GBA). 2022 , 237-259	
182	The crosstalk between gut microbiota, intestinal immunological niche and visceral adipose tissue as a new model for the pathogenesis of metabolic and inflammatory diseases: the paradigm of type 2 diabetes mellitus.. 2022 ,	1
181	A new generation of probiotics [psychobiotics, their purpose and functions. 2022 , 66, 64-78	1
180	Delving the role of nutritional psychiatry to mitigate the COVID-19 pandemic induced stress, anxiety and depression.. 2022 , 120, 25-35	6
179	The effect of interventions targeting gut microbiota on depressive symptoms: a systematic review and meta-analysis.. 2021 , 9, E1195-E1204	4
178	Effect of Probiotics on Psychiatric Symptoms and Central Nervous System Functions in Human Health and Disease: A Systematic Review and Meta-Analysis.. 2022 , 14,	5
177	Impending Mental Health Issues During Coronavirus Disease 2019 - Time for Personalized Nutrition Based on the Gut Microbiota to Tide Over the Crisis?. 2021 , 15, 831193	0
176	Advances in Microbiota-Gut-Brain Axis and Alcohol Dependence Syndrome. 2022 , 10, 70-78	
175	Role of probiotics and prebiotics in mitigation of different diseases.. 2022 , 96, 111602	2
174	The Efficacy of Fecal Transplantation and Bifidobacterium Supplementation in Ameliorating Propionic Acid-Induced Behavioral and Biochemical Autistic Features in Juvenile Male Rats.. 2022 , 72, 372	3

173	Therapeutic Mechanisms of Gut Microbiota and Probiotics in the Management of Mental Disorders. 2022 , 53-67	
172	Impact of Probiotics in Modulation of Gut Microbiome. 2022 , 401-409	0
171	Gut Microbiota and the Gut-Brain Axis in Neonatal Calves: Implications for Psychobiotic Usage for Stress Regulation. 2022 , 299-325	
170	Nutraceuticals and Physical Activity as Antidepressants: The Central Role of the Gut Microbiota.. 2022 , 11,	2
169	Therapeutic applications of probiotics and its regulatory framework. 2022 , 635-665	
168	One Giant Leap from Mouse to Man: The Microbiota-Gut-Brain Axis in Mood Disorders and Translational Challenges Moving towards Human Clinical Trials.. 2022 , 14,	2
167	The Influence of Gut Microbiota on Neurogenesis: Evidence and Hopes.. 2022 , 11,	4
166	The Gut-Brain Axis. 2021 ,	5
165	Probiotic Supplementation in Major Depressive Disorders. 2022 , 155-178	0
164	Interaction of Gut Microbiota and Brain Function in Patients With Chronic Insomnia: A Regional Homogeneity Study.. 2021 , 15, 804843	1
163	Critical Inspection of the Gut-Brain-Skin Triangle and Its Modulation Through Probiotics. 2022 , 25-51	
162	The as a Probiotic: Focusing on Liver Diseases.. 2022 , 10,	1
161	Effects of 4G-beta-D-Galactosylsucrose in patients with depression: A randomized, double-blinded, placebo-controlled, parallel-group comparative study.. 2022 , 148, 110-120	0
160	Repeated mild traumatic brain injury affects microbial diversity in rat jejunum. 2019 , 44,	4
159	Psychobiotics in Health, Longevity, and Neurological Disorders. 2022 , 17-60	0
158	Micronutrients and Depression: Is There Any Association?. 2022 , 91-107	
157	Modulation of Gut Microbial Diversity through Non-Pharmaceutical Approaches to Treat Schizophrenia.. 2022 , 23,	2
156	Bi-Directionality of the Microbiota-Gut-Brain Axis in Patients With Functional Dyspepsia: Relevance of Psychotherapy and Probiotics.. 2022 , 16, 844564	1

155	Varied Composition and Underlying Mechanisms of Gut Microbiome in Neuroinflammation.. 2022 , 10,	0
154	Bifidobacterium lactis Probio-M8 Adjuvant Treatment Confers Added Benefits to Patients with Coronary Artery Disease via Target Modulation of the Gut-Heart/-Brain Axes.. 2022 , e0010022	3
153	An Overlooked Prebiotic: Beneficial Effect of Dietary Nucleotide Supplementation on Gut Microbiota and Metabolites in Senescence-Accelerated Mouse Prone-8 Mice.. 2022 , 9, 820799	0
152	The Therapeutic Role of Exercise and Probiotics in Stressful Brain Conditions.. 2022 , 23,	0
151	Best Practices for Probiotic Research in Athletic and Physically Active Populations: Guidance for Future Randomized Controlled Trials.. 2022 , 9, 809983	3
150	Probiotic effects on anxiety-like behavior in animal models.. 2022 ,	0
149	Saccharomyces boulardii attenuates lipopolysaccharide-induced anxiety-like behaviors in rats.. 2022 , 136600	0
148	An anxious relationship between Autism Spectrum Disorder and Gut Microbiota: A tangled chemistry?. 2022 , 99, 169-189	1
147	Colitis-associated microbiota drives changes in behaviour in male mice in the absence of inflammation.. 2022 , 102, 266-278	0
146	Probiotics Properties: A Focus on Pregnancy Outcomes.. 2022 , 272, 16-23	
145	Multiplex SYBR Green real-time PCR for Lactobacillus acidophilus group species targeting biomarker genes revealed by a pangenome approach.. 2022 , 259, 127013	
144	Gut Homeostasis; Microbial Cross Talks in Health and Disease Management. 2021 , 9, 1017-1045	
143	Human Gut Microbiota in Health and Selected Cancers.. 2021 , 22,	5
142	Recent Development of Probiotic for Treating Human Diseases.. 2021 , 9, 770248	4
141	Guts Imbalance Imbalances the Brain: A Review of Gut Microbiota Association With Neurological and Psychiatric Disorders.. 2022 , 9, 813204	9
140	Regulatory T Cell Modulation by Improves Feather Damage in Chickens.. 2022 , 9, 855261	0
139	The relationship between the gut microbiota, benign prostatic hyperplasia, and erectile dysfunction.. 2022 ,	0
138	Mechanistic Insights into the Link between Gut Dysbiosis and Major Depression: An Extensive Review.. 2022 , 11,	7

137 Image1.pdf. **2018**,

136 Image2.pdf. **2018**,

135 Image3.pdf. **2018**,

134 Table1.csv. **2018**,

133 Table2.csv. **2018**,

132 Table3.csv. **2018**,

131 Table4.csv. **2018**,

130 Table5.csv. **2018**,

129 Data_Sheet_1.docx. **2020**,

128 Presentation_1.PPTX. **2020**,

127 Presentation_2.PPTX. **2020**,

126 Presentation_3.PPTX. **2020**,

125 Presentation_4.PPTX. **2020**,

124 Table_1.docx. **2020**,

123 Table_2.DOCX. **2020**,

122 Table_3.DOCX. **2020**,

121 Table_4.DOCX. **2020**,

120 Table_1.docx. **2018**,

119	Image_1.pdf. 2019 ,	
118	Table_1.pdf. 2019 ,	
117	Data_Sheet_1.pdf. 2020 ,	
116	Probiotic Mixture Containing , and Affects Brain Responses to an Arithmetic Stress Task in Healthy Subjects: A Randomised Clinical Trial and Proof-of-Concept Study.. 2022 , 14,	1
115	Intestinal Microbiota Modulation for Type 1 and Type 2 Diabetes Prevention. 2022 , 77-95	
114	Probiotic Mixture Containing , and Affects Brain Responses Toward an Emotional Task in Healthy Subjects: A Randomized Clinical Trial.. 2022 , 9, 827182	1
113	Influence of 2'-Fucosyllactose and Subspecies Supplementation on Cognitive and Structural Brain Development in Young Pigs.. 2022 , 16, 860368	0
112	A Reciprocal Link Between Gut Microbiota, Inflammation and Depression: A Place for Probiotics?. 2022 , 16, 852506	0
111	Microbiome Engineering for Metabolic Disorders. 2022 , 47-91	
110	Effects of Chang-Kang-Fang Formula on the Microbiota-Gut-Brain Axis in Rats With Irritable Bowel Syndrome. 2022 , 13,	
109	The Microbiome and Gut Endocannabinoid System in the Regulation of Stress Responses and Metabolism. 2022 , 16,	0
108	Gut microbiota in various childhood disorders: Implication and indications. 2022 , 28, 1875-1901	0
107	How do gut microbes influence mental health?. 2022 , 13, 26-29	
106	Medicinal Plants and Their Impact on the Gut Microbiome in Mental Health: A Systematic Review. 2022 , 14, 2111	1
105	Gut Microbiome: A Brief Review on Its Role in Schizophrenia and First Episode of Psychosis. 2022 , 10, 1121	1
104	The Neuroprotective Effects of Spray-Dried Porcine Plasma Supplementation Involve the MicrobiotaGutBrain Axis. 2022 , 14, 2211	1
103	The Gut Microbiota-Brain Axis: A New Frontier on Neuropsychiatric Disorders. 2022 , 13,	0
102	Clinical, gut microbial and neural effects of a probiotic add-on therapy in depressed patients: a randomized controlled trial. 2022 , 12,	3

101	Drosophila melanogaster as an In Vivo Model for the Investigation of Host-Microbiota Interaction. 2022 , 275-300	0
100	Probiotics and gut-brain axis modulation. 2022 , 373-410	
99	Probiotics for the prevention of atopic dermatitis in infants from different geographic regions: a systematic review and meta-analysis. 1-27	0
98	Changes of Gut Microbiota in Autism Spectrum Disorders and Common Probiotics & Chinese Herbal Medicine Therapeutic Mechanisms: a Review.	0
97	Mechanisms of Cognitive Impairment in Depression. May Probiotics Help?. 13,	0
96	Effects of different probiotic strains B. lactis, L. rhamnosus and L. reuteri on brain-intestinal axis immunomodulation in an endotoxin-induced inflammation.	
95	Probiotic potentials of the silkworm gut symbiont Enterococcus casseliflavus ECB140 , a promising L-tryptophan producer living inside the host.	1
94	Microbiome Impact on Amyloidogenesis. 9,	
93	The Role of Gut Microbiota-Gut-Brain Axis in Perioperative Neurocognitive Dysfunction. 13,	0
92	Gut Bless Your Pain Roles of the Gut Microbiota, Sleep, and Melatonin in Chronic Orofacial Pain and Depression. 2022 , 10, 1528	1
91	Associations Between Gut Microbes and Social Behavior in Healthy 2-Year-Old Children. Publish Ahead of Print,	
90	The effects of probiotics on risk and time preferences. 2022 , 12,	1
89	Integrated 16S rDNA, metabolomics, and TNF- α /NF- κ B signaling pathway analyses to explain the modulatory effect of Poria cocos aqueous extract on anxiety-like behavior. 2022 , 104, 154300	
88	Marked shifts in gut microbial structure and neurotransmitter metabolism in fresh inmates revealed a close link between gut microbiota and mental health: A case-controlled study. 2022 , 22, 100323	1
87	Effects of Saccharomyces boulardii Supplementation on Nutritional Status, Fecal Parameters, Microbiota, and Mycobiota in Breeding Adult Dogs. 2022 , 9, 389	2
86	Pain and Opioid-Induced Gut Microbial Dysbiosis. 2022 , 10, 1815	1
85	Attention-Deficit/Hyperactivity Disorder and the Gut Microbiota-Gut-Brain Axis: Closing Research Gaps through Female Inclusion in Study Design. 2022 , 2, 231-253	0
84	Tenets in Microbial Endocrinology: A New Vista in Teleost Reproduction. 13,	

83	Nutrition and mental health: A review of current knowledge about the impact of diet on mental health. 9,	2
82	Attention Deficit Hyperactivity Disorder and the gut microbiome: An ecological perspective.	
81	Clinical Potential of Microbial Strains, Used in Fermentation for Probiotic Food, Beverages and in Synbiotic Supplements, as Psychobiotics for Cognitive Treatment through Gut-Brain Signaling. 2022 , 10, 1687	4
80	Remodeling of microbiota gut-brain axis using psychobiotics in depression. 2022 , 931, 175171	0
79	The gut microbiome and Alzheimer's disease: Complex and bidirectional interactions. 2022 , 141, 104814	0
78	Role of gut microbiota in depression: Understanding molecular pathways, recent research, and future direction. 2023 , 436, 114081	1
77	Gut-Brain communication: a novel application of probiotics. 2022 , 405-416	0
76	Multi-omic analysis of host-microbial interactions central to the gut-brain axis.	0
75	Impact of gut microbiome on anxiety. 2022 ,	0
74	What do experimental animal models of mood disorders tell clinicians about influence of probiotics on the gut-brain axis?. 2022 , 76, 380-394	0
73	Psychobiotics improve propionic acid-induced neuroinflammation in juvenile rats, rodent model of autism. 2022 , 13, 292-300	0
72	Feed your microbiome and improve sleep, stress resilience, and cognition. 331-344	0
71	Probiotics in the Management of Mental and Gastrointestinal Post-COVID Symptomes. 2022 , 11, 5155	1
70	A probiotic blend improves defecation, mental health, and productivity in healthy Japanese volunteers under stressful situations. 2022 , 8, e10614	0
69	The Effect of Adjunctive Probiotics on Markers of Inflammation and Oxidative Stress in Bipolar Disorder: A Double-blind, Randomized, Controlled Trial. 2022 , 28, 373-382	0
68	Multi-Strain Probiotic Mixture Affects Brain Morphology and Resting State Brain Function in Healthy Subjects: An RCT. 2022 , 11, 2922	1
67	Exploring relationship between emotion and probiotics with knowledge graphs. 2022 , 10,	0
66	Akkermansia muciniphila ameliorates depressive disorders in murine alcohol-LPS (mALPS) model.	0

65	Caloric Restriction, Friend or Foe: Effects on Metabolic Status in Association with the Intestinal Microbiome and Metabolome. 2022 , 70, 14061-14072	1
64	Current Perspectives on Pharmacological and Non-Pharmacological Interventions for the Inflammatory Mechanism of Unipolar Depression. 2022 , 12, 1403	0
63	The gut microbiota, HPA axis, and brain in adolescent-onset depression: Probiotics as a novel treatment. 2022 , 100541	2
62	Comprehensive multi-omics characterization of gut microbiome extracellular vesicles reveals a connection to gut-brain axis signaling.	0
61	Sex-specific effects of voluntary wheel running on behavior and the gut microbiota-immune-brain axis in mice.	0
60	Lactobacillus Species as Probiotics: Isolation Sources and Health Benefits.	0
59	Emerging insights between gut microbiome dysbiosis and Parkinson's disease: Pathogenic and clinical relevance. 2022 , 82, 101759	1
58	Efficacy of a food supplement based on S-adenosyl methionine and probiotic strains in subjects with subthreshold depression and mild-to-moderate depression: A monocentric, randomized, cross-over, double-blind, placebo-controlled clinical trial. 2022 , 156, 113930	2
57	Ingestion of Lactobacillus helveticus WHH1889 improves depressive and anxiety symptoms induced by chronic unpredictable mild stress in mice. 1-16	0
56	What Are the Key Gut Microbiota Involved in Neurological Diseases? A Systematic Review. 2022 , 23, 13665	1
55	Opportunities for growth in the growing field of psychobiotics. 1-8	0
54	Functional Gastrointestinal Disorders with Psychiatric Symptoms: Involvement of the Microbiome-Gut-Brain Axis in the Pathophysiology and Case Management. 2022 , 10, 2199	0
53	Overcoming Anxiety Disorder by Probiotic Lactiplantibacillus plantarum LZU-J-TSL6 through Regulating Intestinal Homeostasis. 2022 , 11, 3596	0
52	Effect of aflatoxin B1 exposure on the progression of depressive-like behavior in rats. 9,	0
51	Microbiome: The Missing Link in Neuropsychiatric Disorders. 83-88	1
50	Air Pollution: Possible Interaction between the Immune and Nervous System?. 2022 , 19, 16037	0
49	Beyond probiotics: a narrative review on an era of revolution.	0
48	Gut microbiome-wide association study of depressive symptoms. 2022 , 13,	6

47	Exposure to Antibiotics and Neurodevelopmental Disorders: Could Probiotics Modulate the Gut-Brain Axis?. 2022 , 11, 1767	1
46	Epigenetics in depression and gut-brain axis: A molecular crosstalk. 14,	3
45	Cognitive, Emotional, Behavioral and Physiological Evaluation of the Relationship Between Brain and Gut Microbiota. 2022 , 14, 446-459	0
44	Lifestyle. 2023 , 186-198	0
43	The Role of Gut Dysbiosis in the Pathophysiology of Neuropsychiatric Disorders. 2023 , 12, 54	2
42	Blood-Brain Barrier Disruption and Its Involvement in Neurodevelopmental and Neurodegenerative Disorders. 2022 , 23, 15271	1
41	Psychobiotics and Elderly Health. 2022 , 14, 469-476	0
40	Linking the gut microbiome to microglial activation in opioid use disorder. 16,	0
39	Microbiome and Probiotics for Ischemic Stroke. 2023 , 387-395	0
38	The Microbiome in Neurogastroenterology. 2022 , 73-93	0
37	Gut microbiota in brain tumors: An emerging crucial player.	0
36	Whole-genome analysis of gamma-aminobutyric acid producing Psychobiotic <i>Limosilactobacillus reuteri</i> with its Untargeted metabolomics using UHPLC-Q-ToF MS/MS. 2023 , 147195	0
35	The association between gut-health promoting diet and depression: A mediation analysis. 2023 , 324, 136-142	0
34	Theaflavins in Black Tea Mitigate Aging-Associated Cognitive Dysfunction via the Microbiota-Gut-Brain Axis. 2023 , 71, 2356-2369	0
33	Interplay of Gut Microbiota in Polycystic Ovarian Syndrome: Role of Gut Microbiota, Mechanistic Pathways and Potential Treatment Strategies. 2023 , 16, 197	0
32	Probiotics in dermatological and cosmetic products: Application and efficiency. 2023 , 68, 9-26	0
31	The Influence of Probiotic Supplementation on the Severity of Anxiety and Depressive Symptoms; Function and Composition of Gut Microbiota; and Metabolic, Inflammation, and Oxidative Stress Markers in Patients with Depression: A Study Protocol. 2023 , 13, 182	0
30	Host-microbiota interactions and oncogenesis: Crosstalk and its implications in etiology. 2023 , 178, 106063	0

29	Differences in gut microbiota associated with stress resilience and susceptibility to single prolonged stress in female rodents. 2023 , 24, 100533	0
28	Effects of a high-prebiotic diet versus probiotic supplements versus synbiotics on adult mental health: The 'Gut Feelings' randomised controlled trial. 16,	1
27	<i>Limosilactobacillus reuteri</i> administration alters the gut-brain-behavior axis in a sex-dependent manner in socially monogamous prairie voles. 14,	0
26	Fermented foods and immunological effects in humans and animal models. 2023 , 333-344	0
25	<i>Paraburkholderia sabiae</i> administration alters zebrafish anxiety-like behavior via gut microbial taurine metabolism. 14,	0
24	Psychobiotics: Are they the future intervention for managing depression and anxiety? A literature review. 2023 ,	0
23	<i>Cuscutae semen</i> alleviates CUS-induced depression-like behaviors in mice via the gut microbiota-neuroinflammation axis. 14,	0
22	Neurodevelopmental Disorders of the Cerebellum: Autism Spectrum Disorder. 2023 , 477-498	0
21	The Gut Microbial Bile Acid Modulation and Its Relevance to Digestive Health and Diseases. 2023 ,	0
20	Clinical significance of microbiota changes under the influence of psychotropic drugs. An updated narrative review. 14,	1
19	Participants in the Trans-Antarctic Winter Traverse Expedition Showed Increased Bacterial Load and Diversity in Saliva but Maintained Individual Differences within Stool Microbiota and Across Metabolite Fingerprints. 2023 , 24, 4850	0
18	A six-month prospective, randomised, double-blinded, placebo-controlled, crossover, dietary trial design to investigate the potential of psychobiotics on seizure semiology and comorbidities in canine epilepsy: study protocol. 2023 , 19,	0
17	Advent of Pharmabiotics as a Promising Therapeutic Tool for Human Health and Diseases Management. 2023 , 140-173	0
16	Efficacy of <i>Bifidobacterium longum</i> alone or in multi-strain probiotic formulations during early life and beyond. 2023 , 15,	0
15	A Microbial-Based Approach to Mental Health: The Potential of Probiotics in the Treatment of Depression. 2023 , 15, 1382	0
14	Emerging Role and Place of Probiotics in the Management of Pediatric Neurodevelopmental Disorders. 2023 , 12, 102-108	0
13	PRO-DEMET Randomized Controlled Trial on Probiotics in Depression Pilot Study Results. 2023 , 15, 1400	0
12	Gut microbiota and its metabolites in depression: from pathogenesis to treatment. 2023 , 90, 104527	0

- 11 Microbiome-Induced Autoimmunity and Novel Therapeutic Intervention. **2023**, 71-90 ○
- 10 Exploring the Potential of *Lactobacillus helveticus* R0052 and *Bifidobacterium longum* R0175 as Promising Psychobiotics Using SHIME. **2023**, 15, 1521 ○
- 9 Antimicrobial activity of antidepressants on normal gut microbiota: Results of the in vitro study. 17, ○
- 8 Psychobiotic Effects on Anxiety Are Modulated by Lifestyle Behaviors: A Randomized Placebo-Controlled Trial on Healthy Adults. **2023**, 15, 1706 ○
- 7 Dysbiosis of the Gut Microbiota and Kynurenine (Kyn) Pathway Activity as Potential Biomarkers in Patients with Major Depressive Disorder. **2023**, 15, 1752 ○
- 6 Heat-killed *Lactobacillus helveticus* improves mood states: a randomised, double-blind, placebo-controlled study. **2023**, 14, 109-117 ○
- 5 A Review of the Impact of Maternal Prenatal Stress on Offspring Microbiota and Metabolites. **2023**, 13, 535 ○
- 4 Prebiotic and Probiotic Modulation of the Microbiota-Gut-Brain Axis in Depression. **2023**, 15, 1880 ○
- 3 In-depth analysis beneficial effect of probiotics and fatty acids in anesis of depression. ○
- 2 The Muscle-Gut-Brain Axis and Psychiatric Illness. ○
- 1 Sex-specific effects of voluntary wheel running on behavior and the gut microbiota-immune-brain axis in mice. **2023**, 100628 ○