

Gert Lubec

List of Publications by Year in descending order

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109
papers

2,168
citations

279701

23
h-index

302012

39
g-index

117
all docs

117
docs citations

117
times ranked

3845
citing authors

#	ARTICLE	IF	CITATIONS
1	Searching for hypothetical proteins: Theory and practice based upon original data and literature. <i>Progress in Neurobiology</i> , 2005, 77, 90-127.	2.8	171
2	Limitations and Pitfalls in Protein Identification by Mass Spectrometry. <i>Chemical Reviews</i> , 2007, 107, 3568-3584.	23.0	120
3	Spatial and Working Memory Is Linked to Spine Density and Mushroom Spines. <i>PLoS ONE</i> , 2015, 10, e0139739.	1.1	116
4	Neuronal nitric oxide synthase knock-out mice show impaired cognitive performance. <i>Nitric Oxide - Biology and Chemistry</i> , 2004, 10, 130-140.	1.2	109
5	Gel-free mass spectrometry analysis of <i>Drosophila melanogaster</i> heads. <i>Proteomics</i> , 2015, 15, 3356-3360.	1.3	59
6	Synaptic mitochondria: A brain mitochondria cluster with a specific proteome. <i>Journal of Proteomics</i> , 2015, 120, 142-157.	1.2	59
7	Early Presymptomatic Changes in the Proteome of Mitochondria-Associated Membrane in the APP/PS1 Mouse Model of Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018, 55, 7839-7857.	1.9	55
8	The secretome of apoptotic human peripheral blood mononuclear cells attenuates secondary damage following spinal cord injury in rats. <i>Experimental Neurology</i> , 2015, 267, 230-242.	2.0	54
9	A TRPV secretagogin regulatory axis controls pancreatic β cell survival by modulating protein turnover. <i>EMBO Journal</i> , 2017, 36, 2107-2125.	3.5	52
10	Validation of dopamine receptor DRD1 and DRD2 antibodies using receptor deficient mice. <i>Amino Acids</i> , 2017, 49, 1101-1109.	1.2	42
11	Structure and post-translational modifications of the web silk protein spidroin-1 from <i>Nephila</i> spiders. <i>Journal of Proteomics</i> , 2014, 105, 174-185.	1.2	40
12	Individual Differences in Male Rats in a Behavioral Test Battery: A Multivariate Statistical Approach. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 26.	1.0	39
13	Antibody-mediated neutralization of myelin-associated EphrinB3 accelerates CNS remyelination. <i>Acta Neuropathologica</i> , 2016, 131, 281-298.	3.9	37
14	The Novel Atypical Dopamine Uptake Inhibitor (S)-CE-123 Partially Reverses the Effort-Related Effects of the Dopamine Depleting Agent Tetrabenazine and Increases Progressive Ratio Responding. <i>Frontiers in Pharmacology</i> , 2019, 10, 682.	1.6	35
15	Hypothalamic CNTF volume transmission shapes cortical noradrenergic excitability upon acute stress. <i>EMBO Journal</i> , 2018, 37, .	3.5	33
16	Drebrin depletion alters neurotransmitter receptor levels in protein complexes, dendritic spine morphogenesis and memory-related synaptic plasticity in the mouse hippocampus. <i>Journal of Neurochemistry</i> , 2015, 134, 327-339.	2.1	31
17	Spider silk proteome provides insight into the structural characterization of <i>Nephila clavipes</i> flagelliform spidroin. <i>Scientific Reports</i> , 2018, 8, 14674.	1.6	28
18	Amphetamine Action at the Cocaine- and Antidepressant-Sensitive Serotonin Transporter Is Modulated by CaMKII . <i>Journal of Neuroscience</i> , 2015, 35, 8258-8271.	1.7	27

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19	Secretagogin-dependent matrix metalloprotease-2 release from neurons regulates neuroblast migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2006-E2015.	3.3	27
20	Phosphorylation regulates the sensitivity of voltage-gated Kv7.2 channels towards phosphatidylinositol(4,5)bisphosphate. <i>Journal of Physiology</i> , 2017, 595, 759-776.	1.3	27
21	Structural Model for the Spider Silk Protein Spidroin-1. <i>Journal of Proteome Research</i> , 2015, 14, 3859-3870.	1.8	26
22	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 9330-9348.	2.9	26
23	Spatial Working Memory in Male Rats: Pre-Experience and Task Dependent Roles of Dopamine D1- and D2-Like Receptors. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 196.	1.0	26
24	A daily single dose of a novel modafinil analogue CE-123 improves memory acquisition and memory retrieval. <i>Behavioural Brain Research</i> , 2018, 343, 83-94.	1.2	25
25	Complete sequencing and oxidative modification of manganese superoxide dismutase in medulloblastoma cells. <i>Electrophoresis</i> , 2009, 30, 3006-3016.	1.3	24
26	Silkomics: Insight into the Silk Spinning Process of Spiders. <i>Journal of Proteome Research</i> , 2016, 15, 1179-1193.	1.8	24
27	Intra-nasal dopamine alleviates cognitive deficits in tgDISC1 rats which overexpress the human DISC1 gene. <i>Neurobiology of Learning and Memory</i> , 2017, 146, 12-20.	1.0	24
28	A Novel Dopamine Transporter Inhibitor CE-123 Improves Cognitive Flexibility and Maintains Impulsivity in Healthy Male Rats. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 222.	1.0	24
29	Structure-Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 391-417.	2.9	23
30	Behavioral and dopamine transporter binding properties of the modafinil analog (S, S)-CE-158: reversal of the motivational effects of tetrabenazine and enhancement of progressive ratio responding. <i>Psychopharmacology</i> , 2020, 237, 3459-3470.	1.5	23
31	The effect of modafinil on the rat dopamine transporter and dopamine receptors D1-D3 paralleling cognitive enhancement in the radial arm maze. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 215.	1.0	22
32	Structural characterization of the major ampullate silk spidroin-2 protein produced by the spider <i>Nephila clavipes</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1444-1454.	1.1	21
33	Dentate Gyrus Peroxiredoxin 6 Levels Discriminate Aged Unimpaired From Impaired Rats in a Spatial Memory Task. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 198.	1.7	21
34	Long-Term Influence of Perinatal Asphyxia on the Social Behavior in Aging Rats. <i>Gerontology</i> , 2004, 50, 200-205.	1.4	20
35	Mass spectrometric analysis of synaptosomal membrane preparations for the determination of brain receptors, transporters and channels. <i>Proteomics</i> , 2016, 16, 2911-2920.	1.3	19
36	Secretagogin protects Pdx1 from proteasomal degradation to control a transcriptional program required for β^2 cell specification. <i>Molecular Metabolism</i> , 2018, 14, 108-120.	3.0	19

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37	Reinstatement of synaptic plasticity in the aging brain through specific dopamine transporter inhibition. <i>Molecular Psychiatry</i> , 2021, 26, 7076-7090.	4.1	19
38	Modafinil improves performance in the multiple T-Maze and modifies GluR1, GluR2, D2 and NR1 receptor complex levels in the C57BL/6J mouse. <i>Amino Acids</i> , 2012, 43, 2285-2292.	1.2	17
39	Hippocampal monoamine receptor complex levels linked to spatial memory decline in the aging C57BL/6J. <i>Behavioural Brain Research</i> , 2014, 264, 1-8.	1.2	17
40	Widespread alterations in the synaptic proteome of the adolescent cerebral cortex following prenatal immune activation in rats. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 289-309.	2.0	17
41	Drebrin Autoantibodies in Patients with Seizures and Suspected Encephalitis. <i>Annals of Neurology</i> , 2020, 87, 869-884.	2.8	17
42	Comprehensive identification of age-related lipidome changes in rat amygdala during normal aging. <i>PLoS ONE</i> , 2017, 12, e0180675.	1.1	17
43	Reduced Levels of the Synaptic Functional Regulator FMRP in Dentate Gyrus of the Aging Sprague-Dawley Rat. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 384.	1.7	16
44	Differential Effects of Novel Dopamine Reuptake Inhibitors on Interference With Long-Term Social Memory in Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 63.	1.0	16
45	mTORC1 Is Essential for Early Steps during Schwann Cell Differentiation of Amniotic Fluid Stem Cells and Regulates Lipogenic Gene Expression. <i>PLoS ONE</i> , 2014, 9, e107004.	1.1	15
46	R-Modafinil exerts weak effects on spatial memory acquisition and dentate gyrus synaptic plasticity. <i>PLoS ONE</i> , 2017, 12, e0179675.	1.1	15
47	Neurophysiological and Neurochemical Effects of the Putative Cognitive Enhancer (S)-CE-123 on Mesocorticolimbic Dopamine System. <i>Biomolecules</i> , 2020, 10, 779.	1.8	15
48	A Novel Heterocyclic Compound CE-104 Enhances Spatial Working Memory in the Radial Arm Maze in Rats and Modulates the Dopaminergic System. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 20.	1.0	14
49	Comparative anatomical distribution of neuronal calcium-binding protein (NECAB) 1 and -2 in rodent and human spinal cord. <i>Brain Structure and Function</i> , 2016, 221, 3803-3823.	1.2	14
50	Dopamine type 1- and 2-like signaling in the modulation of spatial reference learning and memory. <i>Behavioural Brain Research</i> , 2019, 362, 173-180.	1.2	14
51	A Novel and Selective Dopamine Transporter Inhibitor, (S)-MK-26, Promotes Hippocampal Synaptic Plasticity and Restores Effort-Related Motivational Dysfunctions. <i>Biomolecules</i> , 2022, 12, 881.	1.8	14
52	Frontal cortex and hippocampus neurotransmitter receptor complex level parallels spatial memory performance in the radial arm maze. <i>Behavioural Brain Research</i> , 2015, 289, 157-168.	1.2	13
53	Design and Synthesis of N-Sulfonylamidines of Modafinil Acid. <i>Synthesis</i> , 2016, 48, 1046-1054.	1.2	13
54	A heterocyclic compound CE-103 inhibits dopamine reuptake and modulates dopamine transporter and dopamine D1-D3 containing receptor complexes. <i>Neuropharmacology</i> , 2016, 102, 186-196.	2.0	13

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55	Design and synthesis of imidazoles linearly connected to carbocyclic and heterocyclic rings via a 1,2,3-triazole linker. Reactivity of \hat{I}^2 -azoyl enamines towards heteroaromatic azides. <i>New Journal of Chemistry</i> , 2018, 42, 7049-7059.	1.4	13
56	Cell-Based Radiotracer Binding and Uptake Inhibition Assays: A Comparison of In Vitro Methods to Assess the Potency of Drugs That Target Monoamine Transporters. <i>Frontiers in Pharmacology</i> , 2020, 11, 673.	1.6	13
57	Transcriptomic and Proteomic Analysis of <i>Arion vulgaris</i> Proteins for Probably Successful Survival Strategies?. <i>PLoS ONE</i> , 2016, 11, e0150614.	1.1	12
58	Formation of GABAA receptor complexes containing \hat{I}^1 and \hat{I}^5 subunits is paralleling a multiple T-maze learning task in mice. <i>Brain Structure and Function</i> , 2017, 222, 549-561.	1.2	12
59	Acute molecular effects of pressure-controlled intermittent coronary sinus occlusion in patients with advanced heart failure. <i>ESC Heart Failure</i> , 2018, 5, 1176-1183.	1.4	12
60	N, N \hat{I}^2 , N \hat{I}^3 -trisubstituted guanidines: Synthesis, characterization and evaluation of their leishmanicidal activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 116-128.	2.6	12
61	The differential hippocampal phosphoproteome of <i>Apodemus sylvaticus</i> paralleling spatial memory retrieval in the Barnes maze. <i>Behavioural Brain Research</i> , 2014, 264, 126-134.	1.2	11
62	A novel heterocyclic compound targeting the dopamine transporter improves performance in the radial arm maze and modulates dopamine receptors D1-D3. <i>Behavioural Brain Research</i> , 2016, 312, 127-137.	1.2	11
63	A detailed proteomic profiling of plasma membrane from zebrafish brain. <i>Proteomics - Clinical Applications</i> , 2016, 10, 1264-1268.	0.8	11
64	A novel heterocyclic compound improves working memory in the radial arm maze and modulates the dopamine receptor D1R in frontal cortex of the Sprague-Dawley rat. <i>Behavioural Brain Research</i> , 2017, 332, 308-315.	1.2	11
65	Life-long impairment of glucose homeostasis upon prenatal exposure to psychostimulants. <i>EMBO Journal</i> , 2020, 39, e100882.	3.5	11
66	Decreased hippocampal homoarginine and increased nitric oxide and nitric oxide synthase levels in rats parallel training in a radial arm maze. <i>Amino Acids</i> , 2016, 48, 2197-2204.	1.2	10
67	Synaptic proteome changes in the hypothalamus of mother rats. <i>Journal of Proteomics</i> , 2017, 159, 54-66.	1.2	10
68	Insight into the Anticancer Activity of Copper(II) 5-Methylenetrimethylammonium-Thiosemicarbazones and Their Interaction with Organic Cation Transporters. <i>Biomolecules</i> , 2020, 10, 1213.	1.8	10
69	Lack of presynaptic interaction between glucocorticoid and CB1 cannabinoid receptors in GABA- and glutamatergic terminals in the frontal cortex of laboratory rodents. <i>Neurochemistry International</i> , 2015, 90, 72-84.	1.9	9
70	Hippocampal GluA2 and GluA4 protein but not corresponding mRNA and promoter methylation levels are modulated at retrieval in spatial learning of the rat. <i>Amino Acids</i> , 2017, 49, 117-127.	1.2	9
71	Age and cognitive status dependent differences in blood steroid and thyroid hormone concentrations in intact male rats. <i>Behavioral and Brain Functions</i> , 2019, 15, 10.	1.4	9
72	Differences in Hypothalamic Lipid Profiles of Young and Aged Male Rats With Impaired and Unimpaired Spatial Cognitive Abilities and Memory. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 204.	1.7	9

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73	Networks of protein kinases and phosphatases in the individual phases of contextual fear conditioning in the C57BL/6J mouse. <i>Behavioural Brain Research</i> , 2015, 280, 45-50.	1.2	8
74	Quantitative proteomics reveals protein kinases and phosphatases in the individual phases of contextual fear conditioning in the C57BL/6J mouse. <i>Behavioural Brain Research</i> , 2016, 303, 208-217.	1.2	8
75	Reduced cortical neurotransmitter receptor complex levels in fetal Down syndrome brain. <i>Amino Acids</i> , 2016, 48, 103-116.	1.2	8
76	GABAA receptor subunit deregulation in the hippocampus of human foetuses with Down syndrome. <i>Brain Structure and Function</i> , 2017, 223, 1501-1518.	1.2	8
77	A proteotranscriptomic study of silk-producing glands from the orb-weaving spiders. <i>Molecular Omics</i> , 2019, 15, 256-270.	1.4	8
78	Differential effects of wake promoting drug modafinil in aversive learning paradigms. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 220.	1.0	7
79	Moderate Differences in Feeding Diets Largely Affect Motivation and Spatial Cognition in Adult and Aged but Less in Young Male Rats. <i>Frontiers in Aging Neuroscience</i> , 2018, 10, 249.	1.7	7
80	Spheroid glioblastoma culture conditions as antigen source for dendritic cell-based immunotherapy: spheroid proteins are survival-relevant targets but can impair immunogenic interferon I^3 production. <i>Cytotherapy</i> , 2019, 21, 643-658.	0.3	7
81	A hippocampal nicotinic acetylcholine alpha 7-containing receptor complex is linked to memory retrieval in the multiple-T-maze in C57BL/6j mice. <i>Behavioural Brain Research</i> , 2014, 270, 137-145.	1.2	6
82	Contextual fear conditioning modulates hippocampal AMPA-, GluN1- and serotonin receptor 5-HT1A-containing receptor complexes. <i>Behavioural Brain Research</i> , 2015, 278, 44-54.	1.2	6
83	Combined experimental and theoretical studies of regio- and stereoselectivity in reactions of I^2 -isoxazolyl- and I^2 -imidazolyl enamines with nitrile oxides. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2390-2401.	1.3	6
84	Determination of anisomycin in tissues and serum by LC-MS/MS: application to pharmacokinetic and distribution studies in rats. <i>RSC Advances</i> , 2016, 6, 92479-92489.	1.7	6
85	Super-resolution Microscopical Localization of Dopamine Receptors 1 and 2 in Rat Hippocampal Synaptosomes. <i>Molecular Neurobiology</i> , 2018, 55, 4857-4869.	1.9	6
86	Moderate differences in common feeding diets change lipid composition in the hippocampal dentate gyrus and affect spatial cognitive flexibility in male rats. <i>Neurochemistry International</i> , 2019, 128, 215-221.	1.9	6
87	Individual phases of contextual fear conditioning differentially modulate dorsal and ventral hippocampal GluA1-3, GluN1-containing receptor complexes and subunits. <i>Hippocampus</i> , 2015, 25, 1501-1516.	0.9	5
88	Hydrolysis with <i>Cucurbita ficifolia</i> serine protease reduces antigenic response to bovine whey protein concentrate and I^s -casein. <i>Amino Acids</i> , 2015, 47, 2335-2343.	1.2	5
89	Diastereoselective synthesis of 1,2,3-triazolines fused with pentane and dihydropyran rings. <i>Chemistry of Heterocyclic Compounds</i> , 2018, 54, 984-988.	0.6	5
90	Diversity matters: combinatorial information coding by GABAA receptor subunits during spatial learning and its allosteric modulation. <i>Cellular Signalling</i> , 2018, 50, 142-159.	1.7	5

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91	Revealing the Venomous Secrets of the Spider's Web. <i>Journal of Proteome Research</i> , 2020, 19, 3044-3059.	1.8	5
92	Age-Dependent and Pathway-Specific Bimodal Action of Nicotine on Synaptic Plasticity in the Hippocampus of Mice Lacking the miR-132/212 Genes. <i>Cells</i> , 2022, 11, 261.	1.8	5
93	The Lack of Dopamine Transporter Is Associated With Conditional Associative Learning Impairments and Striatal Proteomic Changes. <i>Frontiers in Psychiatry</i> , 2022, 13, 799433.	1.3	5
94	Characterization of \pm -H-duronidase (Aldurazyme®) and its complexes. <i>Journal of Proteomics</i> , 2013, 80, 26-33.	1.2	4
95	Protein kinases paralleling late-phase LTP formation in dorsal hippocampus in the rat. <i>Neurochemistry International</i> , 2014, 76, 50-58.	1.9	4
96	Resolution Matters: Correlating Quantitative Proteomics and Nanoscale Precision Microscopy for Reconstructing Synapse Identity. <i>Proteomics</i> , 2018, 18, e1800139.	1.3	4
97	The Novel Analogue of Modafinil CE-158 Protects Social Memory against Interference and Triggers the Release of Dopamine in the Nucleus Accumbens of Mice. <i>Biomolecules</i> , 2022, 12, 506.	1.8	4
98	Identification of new phosphorylation sites of AMPA receptors in the rat hippocampus – A resource for neuroscience research. <i>Proteomics - Clinical Applications</i> , 2015, 9, 808-816.	0.8	3
99	Concerted Gene Expression of Hippocampal Steroid Receptors during Spatial Learning in Male Wistar Rats: A Correlation Analysis. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 94.	1.0	3
100	A catalyst-free one-step synthesis of N-pyrimidinyl amidines from endocyclic enamines and 4-azidopyrimidines. <i>Mendeleev Communications</i> , 2019, 29, 50-52.	0.6	3
101	Molecular species of oxidized phospholipids in brain differentiate between learning- and memory impaired and unimpaired aged rats. <i>Amino Acids</i> , 2022, 54, 1311-1326.	1.2	3
102	New transformations of N-hetarylcyclopentano[d][1,2,3]triazoline ring into 5-alkoxyvaleramidines. <i>Chemistry of Heterocyclic Compounds</i> , 2018, 54, 1050-1055.	0.6	2
103	Proteome Changes Paralleling the Olfactory Conditioning in the Forager Honey Bee and Provision of a Brain Proteomics Dataset. <i>Proteomics</i> , 2019, 19, e1900094.	1.3	2
104	Striatal Transcriptome Reveals Differences Between Cognitively Impaired and Unimpaired Aged Male Rats. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 611572.	1.7	1
105	Protein Profiling of the Supratentorial Primitive Neuroectodermal Tumor (PNET) Cell Line PFSK-1. <i>Cancer Genomics and Proteomics</i> , 2004, 1, 125-136.	1.0	1
106	Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. <i>Amino Acids</i> , 2021, , 1.	1.2	0
107	Proteomic Determination of Metabolic Protein Expression in Ten Different Tumor Cell Lines. <i>Cancer Genomics and Proteomics</i> , 2004, 1, 311-338.	1.0	0
108	Proteomic Profiling of Signaling Proteins in Ten Different Tumor Cell Lines. <i>Cancer Genomics and Proteomics</i> , 2004, 1, 427-454.	1.0	0

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109	Specific Expression of Potential Tumour Marker Proteins, Similar to No On or Off Transient A and HIRA-interacting Protein 5, in Mouse N1E-115 Neuroblastoma Cell Line. <i>Cancer Genomics and Proteomics</i> , 2005, 2, 209-218.	1.0	0