

Gert Lubec

List of Publications by Year in descending order

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109
papers

2,168
citations

279798
23
h-index

302126
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. Progress in Neurobiology, 2005, 77, 90-127.	5.7	171
2	Limitations and Pitfalls in Protein Identification by Mass Spectrometry. Chemical Reviews, 2007, 107, 3568-3584.	47.7	120
3	Spatial and Working Memory Is Linked to Spine Density and Mushroom Spines. PLoS ONE, 2015, 10, e0139739.	2.5	116
4	Neuronal nitric oxide synthase knock-out mice show impaired cognitive performance. Nitric Oxide - Biology and Chemistry, 2004, 10, 130-140.	2.7	109
5	Gel-free mass spectrometry analysis of <i>Drosophila melanogaster</i> heads. Proteomics, 2015, 15, 3356-3360.	2.2	59
6	Synaptic mitochondria: A brain mitochondria cluster with a specific proteome. Journal of Proteomics, 2015, 120, 142-157.	2.4	59
7	Early Presymptomatic Changes in the Proteome of Mitochondria-Associated Membrane in the APP/PS1 Mouse Model of Alzheimer's Disease. Molecular Neurobiology, 2018, 55, 7839-7857.	4.0	55
8	The secretome of apoptotic human peripheral blood mononuclear cells attenuates secondary damage following spinal cord injury in rats. Experimental Neurology, 2015, 267, 230-242.	4.1	54
9	A TRPV1 secretagogue regulatory axis controls pancreatic β -cell survival by modulating protein turnover. EMBO Journal, 2017, 36, 2107-2125.	7.8	52
10	Validation of dopamine receptor DRD1 and DRD2 antibodies using receptor deficient mice. Amino Acids, 2017, 49, 1101-1109.	2.7	42
11	Structure and post-translational modifications of the web silk protein spidroin-1 from Nephila spiders. Journal of Proteomics, 2014, 105, 174-185.	2.4	40
12	Individual Differences in Male Rats in a Behavioral Test Battery: A Multivariate Statistical Approach. Frontiers in Behavioral Neuroscience, 2017, 11, 26.	2.0	39
13	Antibody-mediated neutralization of myelin-associated EphrinB3 accelerates CNS remyelination. Acta Neuropathologica, 2016, 131, 281-298.	7.7	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. Frontiers in Pharmacology, 2019, 10, 682.	3.5	35
15	Hypothalamic CNTF volume transmission shapes cortical noradrenergic excitability upon acute stress. EMBO Journal, 2018, 37, .	7.8	33
16	Drebrin depletion alters neurotransmitter receptor levels in protein complexes, dendritic spine morphogenesis and memory-related synaptic plasticity in the mouse hippocampus. Journal of Neurochemistry, 2015, 134, 327-339.	3.9	31
17	Spider silk proteome provides insight into the structural characterization of Nephila clavipes flagelliform spidroin. Scientific Reports, 2018, 8, 14674.	3.3	28
18	Amphetamine Action at the Cocaine- and Antidepressant-Sensitive Serotonin Transporter Is Modulated by CaMKII . Journal of Neuroscience, 2015, 35, 8258-8271.	3.6	27

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19	Secretagogen-dependent matrix metalloprotease-2 release from neurons regulates neuroblast migration. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2006-E2015.	7.1	27
20	Phosphorylation regulates the sensitivity of voltage-gated Kv7.2 channels towards phosphatidylinositol(4,5)-bisphosphate. Journal of Physiology, 2017, 595, 759-776.	2.9	27
21	Structural Model for the Spider Silk Protein Spidroin-1. Journal of Proteome Research, 2015, 14, 3859-3870.	3.7	26
22	Heterocyclic Analogues of Modafinil as Novel, Atypical Dopamine Transporter Inhibitors. Journal of Medicinal Chemistry, 2017, 60, 9330-9348.	6.4	26
23	Spatial Working Memory in Male Rats: Pre-Experience and Task Dependent Roles of Dopamine D1- and D2-Like Receptors. Frontiers in Behavioral Neuroscience, 2017, 11, 196.	2.0	26
24	A daily single dose of a novel modafinil analogue CE-123 improves memory acquisition and memory retrieval. Behavioural Brain Research, 2018, 343, 83-94.	2.2	25
25	Complete sequencing and oxidative modification of manganese superoxide dismutase in medulloblastoma cells. Electrophoresis, 2009, 30, 3006-3016.	2.4	24
26	Silkomics: Insight into the Silk Spinning Process of Spiders. Journal of Proteome Research, 2016, 15, 1179-1193.	3.7	24
27	Intra-nasal dopamine alleviates cognitive deficits in tgDISC1 rats which overexpress the human DISC1 gene. Neurobiology of Learning and Memory, 2017, 146, 12-20.	1.9	24
28	A Novel Dopamine Transporter Inhibitor CE-123 Improves Cognitive Flexibility and Maintains Impulsivity in Healthy Male Rats. Frontiers in Behavioral Neuroscience, 2017, 11, 222.	2.0	24
29	Structure-Activity Relationships of Novel Thiazole-Based Modafinil Analogues Acting at Monoamine Transporters. Journal of Medicinal Chemistry, 2020, 63, 391-417.	6.4	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. Psychopharmacology, 2020, 237, 3459-3470.	3.1	23
31	The effect of modafinil on the rat dopamine transporter and dopamine receptors D1-D3 paralleling cognitive enhancement in the radial arm maze. Frontiers in Behavioral Neuroscience, 2015, 9, 215.	2.0	22
32	Structural characterization of the major ampullate silk spidroin-2 protein produced by the spider Nephila clavipes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 1444-1454.	2.3	21
33	Dentate Gyrus Peroxiredoxin 6 Levels Discriminate Aged Unimpaired From Impaired Rats in a Spatial Memory Task. Frontiers in Aging Neuroscience, 2019, 11, 198.	3.4	21
34	Long-Term Influence of Perinatal Asphyxia on the Social Behavior in Aging Rats. Gerontology, 2004, 50, 200-205.	2.8	20
35	Mass spectrometric analysis of synaptosomal membrane preparations for the determination of brain receptors, transporters and channels. Proteomics, 2016, 16, 2911-2920.	2.2	19
36	Secretagogen protects Pdx1 from proteasomal degradation to control a transcriptional program required for β^2 cell specification. Molecular Metabolism, 2018, 14, 108-120.	6.5	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.	7.9	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.	2.7	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.	2.2	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.	4.1	17
41	Drebrin Autoantibodies in Patients with Seizures and Suspected Encephalitis. <i>Annals of Neurology</i> , 2020, 87, 869-884.	5.3	17
42	Comprehensive identification of age-related lipidome changes in rat amygdala during normal aging. <i>PLoS ONE</i> , 2017, 12, e0180675.	2.5	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.	3.4	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.	2.0	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.	2.5	15
46	R-Modafinil exerts weak effects on spatial memory acquisition and dentate gyrus synaptic plasticity. <i>PLoS ONE</i> , 2017, 12, e0179675.	2.5	15
47	Neurophysiological and Neurochemical Effects of the Putative Cognitive Enhancer (S)-CE-123 on Mesocorticolimbic Dopamine System. <i>Biomolecules</i> , 2020, 10, 779.	4.0	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.	2.0	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.	2.3	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.	2.2	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.	4.0	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.	2.2	13
53	Design and Synthesis of N-Sulfonylamidines of Modafinil Acid. <i>Synthesis</i> , 2016, 48, 1046-1054.	2.3	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.	4.1	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 -azolyl enamines towards heteroaromatic azides. <i>New Journal of Chemistry</i> , 2018, 42, 7049-7059.	2.8	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.	3.5	13
57	Transcriptomic and Proteomic Analysis of <i>Arion vulgaris</i> Proteins for Probably Successful Survival Strategies?. <i>PLoS ONE</i> , 2016, 11, e0150614.	2.5	12
58	Formation of GABAA receptor complexes containing $\hat{I} \pm 1$ and $\hat{I} \pm 5$ subunits is paralleling a multiple T-maze learning task in mice. <i>Brain Structure and Function</i> , 2017, 222, 549-561.	2.3	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.	3.1	12
60	N, N \hat{e}^2 , N \hat{e}^3 -trisubstituted guanidines: Synthesis, characterization and evaluation of their leishmanicidal activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 171, 116-128.	5.5	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.	2.2	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.	2.2	11
63	A detailed proteomic profiling of plasma membrane from zebrafish brain. <i>Proteomics - Clinical Applications</i> , 2016, 10, 1264-1268.	1.6	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.	2.2	11
65	Life-long impairment of glucose homeostasis upon prenatal exposure to psychostimulants. <i>EMBO Journal</i> , 2020, 39, e100882.	7.8	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.	2.7	10
67	Synaptic proteome changes in the hypothalamus of mother rats. <i>Journal of Proteomics</i> , 2017, 159, 54-66.	2.4	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.	4.0	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.	3.8	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.	2.7	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.	3.3	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.	3.4	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. Behavioural Brain Research, 2015, 280, 45-50.	2.2	8
74	Quantitative proteomics reveals protein kinases and phosphatases in the individual phases of contextual fear conditioning in the C57BL/6J mouse. Behavioural Brain Research, 2016, 303, 208-217.	2.2	8
75	Reduced cortical neurotransmitter receptor complex levels in fetal Down syndrome brain. Amino Acids, 2016, 48, 103-116.	2.7	8
76	GABAA receptor subunit deregulation in the hippocampus of human foetuses with Down syndrome. Brain Structure and Function, 2017, 223, 1501-1518.	2.3	8
77	A proteotranscriptomic study of silk-producing glands from the orb-weaving spiders. Molecular Omics, 2019, 15, 256-270.	2.8	8
78	Differential effects of wake promoting drug modafinil in aversive learning paradigms. Frontiers in Behavioral Neuroscience, 2015, 9, 220.	2.0	7
79	Moderate Differences in Feeding Diets Largely Affect Motivation and Spatial Cognition in Adult and Aged but Less in Young Male Rats. Frontiers in Aging Neuroscience, 2018, 10, 249.	3.4	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. Cytotherapy, 2019, 21, 643-658.	0.7	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. Behavioural Brain Research, 2014, 270, 137-145.	2.2	6
82	Contextual fear conditioning modulates hippocampal AMPA-, GluN1- and serotonin receptor 5-HT1A-containing receptor complexes. Behavioural Brain Research, 2015, 278, 44-54.	2.2	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. Beilstein Journal of Organic Chemistry, 2016, 12, 2390-2401.	2.2	6
84	Determination of anisomycin in tissues and serum by LC-MS/MS: application to pharmacokinetic and distribution studies in rats. RSC Advances, 2016, 6, 92479-92489.	3.6	6
85	Super-resolution Microscopical Localization of Dopamine Receptors 1 and 2 in Rat Hippocampal Synaptosomes. Molecular Neurobiology, 2018, 55, 4857-4869.	4.0	6
86	Moderate differences in common feeding diets change lipid composition in the hippocampal dentate gyrus and affect spatial cognitive flexibility in male rats. Neurochemistry International, 2019, 128, 215-221.	3.8	6
87	Individual phases of contextual fear conditioning differentially modulate dorsal and ventral hippocampal GluA1-3, GluN1-containing receptor complexes and subunits. Hippocampus, 2015, 25, 1501-1516.	1.9	5
88	Hydrolysis with Cucurbita ficifolia serine protease reduces antigenic response to bovine whey protein concentrate and I^{\pm} s-casein. Amino Acids, 2015, 47, 2335-2343.	2.7	5
89	Diastereoselective synthesis of 1,2,3-triazolines fused with pentane and dihydropyran rings. Chemistry of Heterocyclic Compounds, 2018, 54, 984-988.	1.2	5
90	Diversity matters: combinatorial information coding by GABAA receptor subunits during spatial learning and its allosteric modulation. Cellular Signalling, 2018, 50, 142-159.	3.6	5

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91	Revealing the Venomous Secrets of the Spider's Web. Journal of Proteome Research, 2020, 19, 3044-3059.	3.7	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. Cells, 2022, 11, 261.	4.1	5
93	The Lack of Dopamine Transporter Is Associated With Conditional Associative Learning Impairments and Striatal Proteomic Changes. Frontiers in Psychiatry, 2022, 13, 799433.	2.6	5
94	Characterization of \pm -Iduronidase (Aldurazyme®) and its complexes. Journal of Proteomics, 2013, 80, 26-33.	2.4	4
95	Protein kinases paralleling late-phase LTP formation in dorsal hippocampus in the rat. Neurochemistry International, 2014, 76, 50-58.	3.8	4
96	Resolution Matters: Correlating Quantitative Proteomics and Nanoscale Precision Microscopy for Reconstructing Synapse Identity. Proteomics, 2018, 18, e1800139.	2.2	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. Biomolecules, 2022, 12, 506.	4.0	4
98	Identification of new phosphorylation sites of AMPA receptors in the rat hippocampus – A resource for neuroscience research. Proteomics - Clinical Applications, 2015, 9, 808-816.	1.6	3
99	Concerted Gene Expression of Hippocampal Steroid Receptors during Spatial Learning in Male Wistar Rats: A Correlation Analysis. Frontiers in Behavioral Neuroscience, 2016, 10, 94.	2.0	3
100	A catalyst-free one-step synthesis of N-pyrimidinyl amidines from endocyclic enamines and 4-azidopyrimidines. Mendeleev Communications, 2019, 29, 50-52.	1.6	3
101	Molecular species of oxidized phospholipids in brain differentiate between learning- and memory impaired and unimpaired aged rats. Amino Acids, 2022, 54, 1311-1326.	2.7	3
102	New transformations of N-hetarylcyclopentano[d][1,2,3]triazoline ring into 5-alkoxyvaleramidines. Chemistry of Heterocyclic Compounds, 2018, 54, 1050-1055.	1.2	2
103	Proteome Changes Paralleling the Olfactory Conditioning in the Forager Honey Bee and Provision of a Brain Proteomics Dataset. Proteomics, 2019, 19, e1900094.	2.2	2
104	Striatal Transcriptome Reveals Differences Between Cognitively Impaired and Unimpaired Aged Male Rats. Frontiers in Aging Neuroscience, 2020, 12, 611572.	3.4	1
105	Protein Profiling of the Supratentorial Primitive Neuroectodermal Tumor (PNET) Cell Line PFSK-1. Cancer Genomics and Proteomics, 2004, 1, 125-136.	2.0	1
106	Synthesis and dopamine receptor binding of dihydrexidine and SKF 38393 catecholamine-based analogues. Amino Acids, 2021, , 1.	2.7	0
107	Proteomic Determination of Metabolic Protein Expression in Ten Different Tumor Cell Lines. Cancer Genomics and Proteomics, 2004, 1, 311-338.	2.0	0
108	Proteomic Profiling of Signaling Proteins in Ten Different Tumor Cell Lines. Cancer Genomics and Proteomics, 2004, 1, 427-454.	2.0	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. Cancer Genomics and Proteomics, 2005, 2, 209-218.	2.0	0