Luda Diatchenko

List of Publications by Year
in descending order

122	13,314	30070 54	22832 112
papers	citations	h-index	g-index

127	127	127	14411
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identifying genetic determinants of inflammatory pain in mice using a large-scale gene-targeted screen. Pain, 2022, 163, 1139-1157.	4.2	4
2	Single-cell RNA sequencing reveals time- and sex-specific responses of mouse spinal cord microglia to peripheral nerve injury and links ApoE to chronic pain. Nature Communications, 2022, 13, 843.	12.8	62
3	Modeling Secondary Phenotypes Conditional on Genotypes in Caseâ€“Control Studies. Stats, 2022, 5, 203-214.	0.9	0
4	Long-term male-specific chronic pain via telomere- and p53â€‘mediated spinal cord cellular senescence. Journal of Clinical Investigation, 2022, 132, .	8.2	25
5	Acute inflammatory response via neutrophil activation protects against the development of chronic pain. Science Translational Medicine, 2022, 14, eabj9954.	12.4	115
6	Microglia-mediated degradation of perineuronal nets promotes pain. Science, 2022, 377, 80-86.	12.6	52
7	Sodium-calcium exchanger-3 regulates pain â€œwind-upâ€• From human psychophysics to spinal mechanisms. Neuron, 2022, 110, 2571-2587.e13.	8.1	7
8	Alternative Splicing of Opioid Receptor Genes Shows a Conserved Pattern for 6TM Receptor Variants. Cellular and Molecular Neurobiology, 2021, 41, 1039-1055.	3.3	5
9	Multi-ethnic GWAS and meta-analysis of sleep quality identify MPP6 as a novel gene that functions in sleep center neurons. Sleep, 2021, 44, .	1.1	5
10	Single cell transcriptomics of primate sensory neurons identifies cell types associated with chronic pain. Nature Communications, 2021, 12, 1510.	12.8	121
11	Identification and characterization of novel candidate compounds targeting 6â€•and 7â€‘transmembrane Î¼â€‘opioid receptor isoforms. British Journal of Pharmacology, 2021, 178, 2709-2726.	5.4	4
12	Mast cell stabilizer ketotifen fumarate reverses inflammatory but not neuropathic-induced mechanical pain in mice. Pain Reports, 2021, 6, e902.	2.7	7
13	Sex- and age-specific genetic analysis of chronic back pain. Pain, 2021, 162, 1176-1187.	4.2	21
14	Phenotypic profile clustering pragmatically identifies diagnostically and mechanistically informative subgroups of chronic pain patients. Pain, 2021, 162, 1528-1538.	4.2	19
15	Premorbid and concurrent predictors of TMD onset and persistence. European Journal of Pain, 2020, 24, 145-158.	2.8	26
16	NK cell recruitment limits tissue damage during an enteric helminth infection. Mucosal Immunology, 2020, 13, 357-370.	6.0	20
17	Detangling red hair from pain: phenotype-specific contributions from different genetic variants in melanocortin-1 receptor. Pain, 2020, 161, 938-948.	4.2	11
18	A functional polymorphism in the ATP-Binding Cassette B1 transporter predicts pharmacologic response to combination of nortriptyline and morphine in neuropathic pain patients. Pain, 2020, 161, 619-629.	4.2	13

#	Article	IF	Citations
19	A genetic polymorphism that is associated with mitochondrial energy metabolism increases risk of fibromyalgia. Pain, 2020, 161, 2860-2871.	4.2	17
20	Reversion mutation of cDNA CA8-204 minigene construct produces a truncated functional peptide that regulates calcium release in vitro and produces profound analgesia in vivo. Mammalian Genome, 2020, 31, 287-294.	2.2	1
21	The dichotomous role of epiregulin in pain. Pain, 2020, 161, 1052-1064.	4.2	17
22	The geriatric pain experience in mice: intact cutaneous thresholds but altered responses to tonic and chronic pain. Neurobiology of Aging, 2020, 89, 1-11.	3.1	16
23	Alternative Splicing of the Delta-Opioid Receptor Gene Suggests Existence of New Functional Isoforms. Molecular Neurobiology, 2019, 56, 2855-2869.	4.0	20
24	Disentangling the genetics of lean mass. American Journal of Clinical Nutrition, 2019, 109, 276-287.	4.7	38
25	A functional substitution in the Lâ€aromatic amino acid decarboxylase enzyme worsens somatic symptoms via a serotonergic pathway. Annals of Neurology, 2019, 86, 168-180.	5.3	9
26	Stabilization of Î¼â€opioid receptor facilitates its cellular translocation and signaling. Proteins: Structure, Function and Bioinformatics, 2019, 87, 878-884.	2.6	6
27	Cartilage-binding antibodies induce pain through immune complexâ€“mediated activation of neurons. Journal of Experimental Medicine, 2019, 216, 1904-1924.	8.5	71
28	Profound analgesia is associated with a truncated peptide resulting from tissue specific alternative splicing of DRG CA8-204 regulated by an exon-level cis-eQTL. PLoS Genetics, 2019, 15, e1008226.	3.5	4
29	CACNG2 polymorphisms associate with chronic pain after mastectomy. Pain, 2019, 160, 561-568.	4.2	22
30	Genome-wide association reveals contribution of MRAS to painful temporomandibular disorder in males. Pain, 2019, 160, 579-591.	4.2	37
31	Genetic pathway analysis reveals a major role for extracellular matrix organization in inflammatory and neuropathic pain. Pain, 2019, 160, 932-944.	4.2	53
32	A study in scarlet: MC1R as the main predictor of red hair and exemplar of the flip-flop effect. Human Molecular Genetics, 2019, 28, 2093-2106.	2.9	11
33	Human pain genetics database: a resource dedicated to human pain genetics research. Pain, 2018, 159, 749-763.	4.2	80
34	Genetic studies of human neuropathic pain conditions: a review. Pain, 2018, 159, 583-594.	4.2	64
35	Low back pain. Nature Reviews Disease Primers, 2018, 4, 52.	30.5	262
36	Human carbonic anhydrase-8 AAV8 gene therapy inhibits nerve growth factor signaling producing prolonged analgesia and anti-hyperalgesia in mice. Gene Therapy, 2018, 25, 297-311.	4.5	6

#	Article	IF	Citations
37	The human pain genetics database: an interview with Luda Diatchenko. Pain Management, 2018, 8, 259-261.	1.5	0
38	N 6-methyladenosine alters RNA structure to regulate binding of a low-complexity protein. Nucleic Acids Research, 2017, 45, 6051-6063.	14.5	586
39	Genetic variant rs3750625 in the 3â€²UTR of ADRA2A affects stress-dependent acute pain severity after trauma and alters a microRNA-34a regulatory site. Pain, 2017, 158, 230-239.	4.2	12
40	Car8 dorsal root ganglion expression and genetic regulation of analgesic responses are associated with a cis-eQTL in mice. Mammalian Genome, 2017, 28, 407-415.	2.2	7
41	miR-183 cluster scales mechanical pain sensitivity by regulating basal and neuropathic pain genes. Science, 2017, 356, 1168-1171.	12.6	124
42	The more you test, the more you find: The smallest Pâ€values become increasingly enriched with real findings as more tests are conducted. Genetic Epidemiology, 2017, 41, 726-743.	1.3	3
43	T-Cell Mediation of Pregnancy Analgesia Affecting Chronic Pain in Mice. Journal of Neuroscience, 2017, 37, 9819-9827.	3.6	46
44	Post-concussion symptoms and chronic pain after mild traumatic brain injury are modulated by multiple locus effect in the BDNF gene through the expression of antisense: A pilot prospective control study. Canadian Journal of Pain, 2017, 1, 112-126.	1.7	2
45	Effect of Human Genetic Variability on Gene Expression in Dorsal Root Ganglia and Association with Pain Phenotypes. Cell Reports, 2017, 19, 1940-1952.	6.4	83
46	Epiregulin and EGFR interactions are involved in pain processing. Journal of Clinical Investigation, 2017, 127, 3353-3366.	8.2	85
47	Modification of COMT-dependent pain sensitivity by psychological stress and sex. Pain, 2016, 157, 858-867.	4.2	49
48	Structural and functional interactions between six-transmembrane Î¼-opioid receptors and Î²2-adrenoreceptors modulate opioid signaling. Scientific Reports, 2016, 5, 18198.	3.3	34
49	Identification of clusters of individuals relevant to temporomandibular disorders and other chronic pain conditions. Pain, 2016, 157, 1266-1278.	4.2	104
50	Human Genetic Variability Contributes to Postoperative Morphine Consumption. Journal of Pain, 2016, 17, 628-636.	1.4	57
51	Agonist-dependence of functional properties for common nonsynonymous variants of human transient receptor potential vanilloid 1. Pain, 2016, 157, 1515-1524.	4.2	17
52	N6-Methyladenosine Modification in a Long Noncoding RNA Hairpin Predisposes Its Conformation to Protein Binding. Journal of Molecular Biology, 2016, 428, 822-833.	4.2	164
53	Molecular genetic mechanisms of allelic specific regulation of murine Comt expression. Pain, 2015, 156, 1965-1977.	4.2	8
54	Neuropathic pain phenotyping by international consensus (NeuroPPIC) for genetic studies. Pain, 2015, 156, 2337-2353.	4.2	86

#	Article	IF	Citations
55	COMT gene locus. Pain, 2015, 156, 2072-2083.	4.2	28
56	Carbonic Anhydrase-8 Regulates Inflammatory Pain by Inhibiting the ITPR1-Cytosolic Free Calcium Pathway. PLoS ONE, 2015, 10, e0118273.	2.5	30
57	Differential Regulation of 6- and 7-Transmembrane Helix Variants of Î¼-Opioid Receptor in Response to Morphine Stimulation. PLoS ONE, 2015, 10, e0142826.	2.5	14
58	Genome-wide association meta-analyses to identify common genetic variants associated with hallux valgus in Caucasian and African Americans. Journal of Medical Genetics, 2015, 52, 762-769.	3.2	18
59	Differences in the Antinociceptive Effects and Binding Properties of Propranolol and Bupranolol Enantiomers. Journal of Pain, 2015, 16, 1321-1333.	1.4	27
60	The nicotinic Î±6 subunit gene determines variability in chronic pain sensitivity via cross-inhibition of P2X2/3 receptors. Science Translational Medicine, 2015, 7, 287ra72.	12.4	59
61	Subgrouping of Low Back Pain Patients for Targeting Treatments. Clinical Journal of Pain, 2015, 31, 123-132.	1.9	36
62	Dual allosteric modulation of opioid antinociceptive potency by Î±2A-adrenoceptors. Neuropharmacology, 2015, 99, 285-300.	4.1	16
63	Î¼-Opioid receptor 6-transmembrane isoform: A potential therapeutic target for new effective opioids. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2015, 62, 61-67.	4.8	26
64	Quantitative H2S-mediated protein sulfhydration reveals metabolic reprogramming during the integrated stress response. ELife, 2015, 4, e10067.	6.0	154
65	Epistasis between polymorphisms in COMT, ESR1, and GCH1 influences COMT enzyme activity and pain. Pain, 2014, 155, 2390-2399.	4.2	59
66	Complex Multilocus Effects of Catechol-O-Methyltransferase Haplotypes Predict Pain and Pain Interference 6ÂWeeks After Motor Vehicle Collision. NeuroMolecular Medicine, 2014, 16, 83-93.	3.4	39
67	Letting the Gene out of the Bottle. Anesthesiology, 2014, 121, 678-680.	2.5	8
68	Facial pain with localized and widespread manifestations: Separate pathways of vulnerability. Pain, 2013, 154, 2335-2343.	4.2	31
69	Signs and Symptoms of First-Onset TMD and Sociodemographic Predictors of Its Development: The OPPERA Prospective Cohort Study. Journal of Pain, 2013, 14, T20-T32.e3.	1.4	176
70	Pain modality- and sex-specific effects of COMT genetic functional variants. Pain, 2013, 154, 1368-1376.	4.2	81
71	Multisystem Dysregulation in Painful Temporomandibular Disorders. Journal of Pain, 2013, 14, 983-996.	1.4	51
72	Multivariable Modeling of Phenotypic Risk Factors for First-Onset TMD: The OPPERA Prospective Cohort Study. Journal of Pain, 2013, 14, T102-T115.	1.4	79

#	Article	IF	Citations
73	Clinical Orofacial Characteristics Associated With Risk of First-Onset TMD: The OPPERA Prospective Cohort Study. Journal of Pain, 2013, 14, T33-T50.	1.4	142
74	Psychological Factors Associated With Development of TMD: The OPPERA Prospective Cohort Study. Journal of Pain, 2013, 14, T75-T90.	1.4	321
75	Study Protocol, Sample Characteristics, and Loss to Follow-Up: The OPPERA Prospective Cohort Study. Journal of Pain, 2013, 14, T2-T19.	1.4	59
76	Summary of Findings From the OPPERA Prospective Cohort Study of Incidence of First-Onset Temporomandibular Disorder: Implications and Future Directions. Journal of Pain, 2013, 14, T116-T124.	1.4	189
77	The phenotypic and genetic signatures of common musculoskeletal pain conditions. Nature Reviews Rheumatology, 2013, 9, 340-350.	8.0	215
78	Construction of a Global Pain Systems Network Highlights Phospholipid Signaling as a Regulator of Heat Nociception. PLoS Genetics, 2012, 8, e1003071.	3.5	23
79	Genetically determined P2X7 receptor pore formation regulates variability in chronic pain sensitivity. Nature Medicine, 2012, 18, 595-599.	30.7	335
80	Excess Risk of Temporomandibular Disorder Associated With Cigarette Smoking in Young Adults. Journal of Pain, 2012, 13, 21-31.	1.4	37
81	Relationship Between Temporomandibular Disorders, Widespread Palpation Tenderness, and Multiple Pain Conditions: A Case-Control Study. Journal of Pain, 2012, 13, 1016-1027.	1.4	57
82	Large candidate gene association study reveals genetic risk factors and therapeutic targets for fibromyalgia. Arthritis and Rheumatism, 2012, 64, 584-593.	6.7	78
83	Relax, you won't feel the pain. Nature Neuroscience, 2011, 14, 1496-1497.	14.8	8
84	Elucidation of mu-opioid gene structure: How genetics can help predict therapeutic response to opioids. European Journal of Pain Supplements, 2011, 5, 433-438.	0.0	16
85	Catechol O-Methyltransferase Haplotype Predicts Immediate Musculoskeletal Neck Pain and Psychological Symptoms After Motor Vehicle Collision. Journal of Pain, 2011, 12, 101-107.	1.4	83
86	Study Methods, Recruitment, Sociodemographic Findings, and Demographic Representativeness in the OPPERA Study. Journal of Pain, 2011, 12, T12-T26.	1.4	130
87	Orofacial Pain Prospective Evaluation and Risk Assessment Study â€“ The OPPERA Study. Journal of Pain, 2011, 12, T4-T11.e2.	1.4	275
88	Potential Genetic Risk Factors for Chronic TMD: Genetic Associations from the OPPERA Case Control Study. Journal of Pain, 2011, 12, T92-T101.	1.4	157
89	Summary of Findings from the OPPERA Baseline Case-Control Study: Implications and Future Directions. Journal of Pain, 2011, 12, T102-T107.	1.4	64
90	Potential Autonomic Risk Factors for Chronic TMD: Descriptive Data and Empirically Identified Domains from the OPPERA Case-Control Study. Journal of Pain, 2011, 12, T75-T91.	1.4	96

#	Article	IF	Citations
91	Structural Basis for Î¼-Opioid Receptor Binding and Activation. Structure, 2011, 19, 1683-1690.	3.3	30
92	Cytokine biomarkers and chronic pain: Association of genes, transcription, and circulating proteins with temporomandibular disorders and widespread palpation tenderness. Pain, 2011, 152, 2802-2812.	4.2	108
93	Disruptive mRNA folding increases translational efficiency of catechol-O-methyltransferase variant. Nucleic Acids Research, 2011, 39, 6201-6212.	14.5	51
94	Structural Mechanism of S-Adenosyl Methionine Binding to Catechol O-Methyltransferase. PLoS ONE, 2011, 6, e24287.	2.5	31
95	A Novel Alternatively Spliced Isoform of the Mu-Opioid Receptor: Functional Antagonism. Molecular Pain, 2010, 6, 1744-8069-6-33.	2.1	56
96	Pain perception is altered by a nucleotide polymorphism in SCN9A. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5148-5153.	7.1	279
97	Multiple chronic pain states are associated with a common amino acidâ€“changing allele in KCNS1. Brain, 2010, 133, 2519-2527.	7.6	224
98	A Genome-wide Drosophila Screen for Heat Nociception Identifies Î±2Î´3 as an Evolutionarily Conserved Pain Gene. Cell, 2010, 143, 628-638.	28.9	283
99	Low Enzymatic Activity Haplotypes of the Human Catechol-O-Methyltransferase Gene: Enrichment for Marker SNPs. PLoS ONE, 2009, 4, e5237.	2.5	46
100	Expansion of the human Î¼-opioid receptor gene architecture: novel functional variants. Human Molecular Genetics, 2009, 18, 1037-1051.	2.9	150
101	Signaling pathways mediating Î²3-adrenergic receptor-induced production of interleukin-6 in adipocytes. Molecular Immunology, 2009, 46, 2256-2266.	2.2	32
102	Homogeneous reporter system enables quantitative functional assessment of multiple transcription factors. Nature Methods, 2008, 5, 253-260.	19.0	80
103	Orthodontic Treatment, Genetic Factors, and Risk of Temporomandibular Disorder. Seminars in Orthodontics, 2008, 14, 146-156.	1.4	54
104	Catechol- O -methyltransferase inhibition increases pain sensitivity through activation of both Î²2- and Î²3-adrenergic receptors. Pain, 2007, 128, 199-208.	4.2	243
105	Responses to Drs. Kim and Dionne regarding comments on Diatchenko, et al. Catechol- O -methyltransferase gene polymorphisms are associated with multiple pain-evoking stimuli. Pain 2006;125:216â€“24. Pain, 2007, 129, 366-370.	4.2	19
106	Î²2 adrenergic receptor activation stimulates pro-inflammatory cytokine production in macrophages via PKA- and NF-ÎºB-independent mechanisms. Cellular Signalling, 2007, 19, 251-260.	3.6	178
107	Genetic architecture of human pain perception. Trends in Genetics, 2007, 23, 605-613.	6.7	207
108	Idiopathic pain disorders â€“ Pathways of vulnerability. Pain, 2006, 123, 226-230.	4.2	328

#	Article	IF	Citations
109	Catechol- O -methyltransferase gene polymorphisms are associated with multiple pain-evoking stimuli. Pain, 2006, 125, 216-224.	4.2	320
110	GTP cyclohydrolase and tetrahydrobiopterin regulate pain sensitivity and persistence. Nature Medicine, 2006, 12, 1269-1277.	30.7	504
111	Identification of novel mediators of NF-ÂB through genome-wide survey of monocyte adherence-induced genes. Journal of Leukocyte Biology, 2005, 78, 1366-1377.	3.3	43
112	Genetic basis for individual variations in pain perception and the development of a chronic pain condition. Human Molecular Genetics, 2005, 14, 135-143.	2.9	1,134
113	Gene expression analysis of purified hematopoietic stem cells and committed progenitors. Blood, 2003, 102, 94-101.	1.4	191
114	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16899-16903.	7.1	1,610
115	Gene expression profiling in RAS oncogene-transformed cell lines and in solid tumors using subtractive suppression hybridization and cDNA arrays. Advances in Enzyme Regulation, 2002, 42, 63-82.	2.6	19
116	Caveolin-1 Is Down-Regulated in Human Ovarian Carcinoma and Acts as a Candidate Tumor Suppressor Gene. American Journal of Pathology, 2001, 159, 1635-1643.	3.8	260
117	Use of SMARTâ„¢-Generated cDNA for Gene Expression Studies in Multiple Human Tumors. BioTechniques, 2001, 30, 158-163.	1.8	58
118	Structure and Regulation of the Mouse ing1 Gene. Journal of Biological Chemistry, 1999, 274, 32172-32181.	3.4	60
119	[20] Suppression subtractive hybridization: A versatile method for identifying differentially expressed genes. Methods in Enzymology, 1999, 303, 349-380.	1.0	349
120	Stress-induced secretion of growth inhibitors: a novel tumor suppressor function of p53. Oncogene, 1998, 17, 1089-1096.	5.9	140
121	Construction of cDNA Libraries from Small Amounts of Total RNA Using the Suppression PCR Effect. Biochemical and Biophysical Research Communications, 1997, 230, 285-288.	2.1	44
122	Equalizing cDNA Subtraction Based on Selective Suppression of Polymerase Chain Reaction: Cloning of Jurkat Cell Transcripts Induced by Phytohemaglutinin and Phorbol 12-Myristate 13-Acetate. Analytical Biochemistry, 1996, 240, 90-97.	2.4	239