

# Gyongyi Horvath

## List of Publications by Year in descending order

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97  
papers

1,850  
citations

279798

23  
h-index

361022

35  
g-index

134  
all docs

134  
docs citations

134  
times ranked

1820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Endomorphin-1 and endomorphin-2: pharmacology of the selective endogenous $\mu$ -opioid receptor agonists. , 2000, 88, 437-463.		113
2	Postural control in athletes participating in an ironman triathlon. European Journal of Applied Physiology, 2004, 92, 407-13.	2.5	98
3	Postural control in elderly subjects participating in balance training. European Journal of Applied Physiology, 2007, 100, 97-104.	2.5	93
4	Anti-inflammatory effects of phosphatidylcholine in neutrophil leukocyte-dependent acute arthritis in rats. European Journal of Pharmacology, 2009, 622, 58-64.	3.5	75
5	The role of TRPV1 receptors in the antinociceptive effect of anandamide at spinal level. Pain, 2008, 134, 277-284.	4.2	57
6	The Synergistic Antinociceptive Interactions of Endomorphin-1 with Dexmedetomidine and/or S(+)-Ketamine in Rats. Anesthesia and Analgesia, 2001, 93, 1018-1024.	2.2	55
7	Chronic Morphine-Induced Changes in $\mu$ -Opioid Receptors and G Proteins of Different Subcellular Loci in Rat Brain. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 774-780.	2.5	52
8	Antinociceptive effects of intrathecal endomorphin-1 and -2 in rats. Life Sciences, 1999, 65, 2635-2641.	4.3	51
9	The Effects of Ketamine and Its Enantiomers on the Morphine- or Dexmedetomidine-induced Antinociception after Intrathecal Administration in Rats. Anesthesiology, 2000, 93, 231-241.	2.5	50
10	In vitro and in vivo percutaneous absorption of topical dosage forms: case studies. International Journal of Pharmaceutics, 2005, 291, 11-19.	5.2	42
11	Antinociceptive Effect of the S(+)-Enantiomer of Ketamine on Carrageenan Hyperalgesia after Intrathecal Administration in Rats. Anesthesia and Analgesia, 1998, 86, 561-565.	2.2	41
12	Effect of intrathecal agmatine on inflammation-induced thermal hyperalgesia in rats. European Journal of Pharmacology, 1999, 368, 197-204.	3.5	40
13	High-dose Remifentanil Does Not Impair Cerebrovascular Carbon Dioxide Reactivity in Healthy Male Volunteers. Anesthesiology, 2003, 99, 834-840.	2.5	35
14	The Peripheral Antinociceptive Effects of Endomorphin-1 and Kynurenic Acid in the Rat Inflamed Joint Model. Anesthesia and Analgesia, 2009, 109, 1297-1304.	2.2	32
15	Uncoupling protein 2 (UCP2) lowers alcohol sensitivity and pain threshold. Biochemical Pharmacology, 2002, 64, 369-374.	4.4	31
16	Characterization of gene-environment interactions by behavioral profiling of selectively bred rats: The effect of NMDA receptor inhibition and social isolation. Behavioural Brain Research, 2013, 240, 134-145.	2.2	31
17	Antinociceptive Effect of the S(+)-Enantiomer of Ketamine on Carrageenan Hyperalgesia after Intrathecal Administration in Rats. Anesthesia and Analgesia, 1998, 86, 561-565.	2.2	30
18	Selective disturbance of pain sensitivity after social isolation. Physiology and Behavior, 2009, 96, 18-22.	2.1	29

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19	Role of Na <sup>+</sup> ,K <sup>+</sup> -ATPase in Morphine-Induced Antinociception. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 306, 1122-1128.	2.5	28
20	When does mechanical plantar stimulation promote sensory re-weighting: standing on a firm or compliant surface?. <i>European Journal of Applied Physiology</i> , 2012, 112, 2979-2987.	2.5	27
21	Sex-specific alterations in behavioral and cognitive functions in a "three hit" animal model of schizophrenia. <i>Behavioural Brain Research</i> , 2015, 284, 85-93.	2.2	27
22	The Significance of Intrathecal Catheter Location in Rats. <i>Anesthesia and Analgesia</i> , 2003, 96, 487-492.	2.2	26
23	The inimitable kynurenic acid: The roles of different ionotropic receptors in the action of kynurenic acid at a spinal level. <i>Brain Research Bulletin</i> , 2015, 112, 52-60.	3.0	26
24	Mu-Opioid (MOP) receptor mediated G-protein signaling is impaired in specific brain regions in a rat model of schizophrenia. <i>Neuroscience Letters</i> , 2016, 619, 29-33.	2.1	24
25	Antinociceptive effect of continuous intrathecal administration of endomorphin-1. <i>Pain</i> , 2001, 94, 31-38.	4.2	22
26	Decreased CB receptor binding and cannabinoid signaling in three brain regions of a rat model of schizophrenia. <i>Neuroscience Letters</i> , 2016, 633, 87-93.	2.1	22
27	Interaction of endogenous ligands mediating antinociception. <i>Brain Research Reviews</i> , 2006, 52, 69-92.	9.0	21
28	The Antinociceptive Potencies and Interactions of Endogenous Ligands During Continuous Intrathecal Administration: Adenosine, Arginine, and Endomorphin-1. <i>Anesthesia and Analgesia</i> , 2004, 98, 420-426.	2.2	20
29	Abnormal Motor Activity and Thermoregulation in a Schizophrenia Rat Model for Translational Science. <i>PLoS ONE</i> , 2015, 10, e0143751.	2.5	20
30	Preparation of bivalent agonists for targeting the mu opioid and cannabinoid receptors. <i>European Journal of Medicinal Chemistry</i> , 2019, 178, 571-588.	5.5	20
31	The antinociceptive effect of intrathecal kynurenic acid and its interaction with endomorphin-1 in rats. <i>European Journal of Pharmacology</i> , 2002, 445, 93-96.	3.5	19
32	The Effects of Peptide and Lipid Endocannabinoids on Arthritic Pain at the Spinal Level. <i>Anesthesia and Analgesia</i> , 2012, 114, 1346-1352.	2.2	19
33	VEP and PERG in patients with multiple sclerosis, with and without a history of optic neuritis. <i>Documenta Ophthalmologica</i> , 2017, 134, 185-193.	2.2	18
34	Evaluation of endomorphin-1 on the activity of Na <sup>+</sup> ,K <sup>+</sup> -ATPase using in vitro and in vivo studies. <i>European Journal of Pharmacology</i> , 2003, 458, 291-297.	3.5	17
35	QUANTITATIVE CHARACTERIZATION OF A REPEATED ACUTE JOINT INFLAMMATION MODEL IN RATS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 520-526.	1.9	17
36	Electrophysiological alterations in a complex rat model of schizophrenia. <i>Behavioural Brain Research</i> , 2016, 307, 65-72.	2.2	17

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37	Kynurenines and the Endocannabinoid System in Schizophrenia: Common Points and Potential Interactions. <i>Molecules</i> , 2019, 24, 3709.	3.8	16
38	An ultrasonographic method for the evaluation of dexmedetomidine on micturition in intact rats. <i>Journal of Pharmacological and Toxicological Methods</i> , 1994, 32, 215-218.	0.7	15
39	Mydriatic and antinociceptive effects of intrathecal dexmedetomidine in conscious rats. <i>European Journal of Pharmacology</i> , 1994, 253, 61-66.	3.5	15
40	Peripheral antinociceptive effect of 2- <i>Arachidonoyl</i> -glycerol and its interaction with endomorphin-1 in arthritic rat ankle joints. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 544-550.	1.9	14
41	Characterization of exploratory activity and learning ability of healthy and "schizophrenia-like" rats in a square corridor system (AMBITUS). <i>Physiology and Behavior</i> , 2017, 169, 155-164.	2.1	14
42	Calcium channels are involved in the hypnotic-anesthetic action of dexmedetomidine in rats. <i>Anesthesia and Analgesia</i> , 1992, 74, 884-8.	2.2	14
43	An isobolographic analysis of the hypnotic effects of combinations of dexmedetomidine with fentanyl or diazepam in rats. <i>Life Sciences</i> , 1992, 50, PL215-PL220.	4.3	13
44	Role of calcium channels in the spinal transmission of nociceptive information from the mesentery. <i>Pain</i> , 2001, 93, 35-41.	4.2	13
45	Blood pressure changes after intrathecal co-administration of calcium channel blockers with morphine or clonidine at the spinal level. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002, 366, 270-275.	3.0	13
46	Antinociceptive activity of <i>Sempervivum tectorum</i> L. extract in rats. <i>Phytotherapy Research</i> , 2003, 17, 1032-1036.	5.8	13
47	Long-Term Changes in the Antinociceptive Potency of Morphine or Dexmedetomidine After a Single Treatment. <i>Anesthesia and Analgesia</i> , 2005, 101, 812-818.	2.2	13
48	Distinct changes in chronic pain sensitivity and oxytocin receptor expression in a new rat model (WisKet) of schizophrenia. <i>Neuroscience Letters</i> , 2020, 714, 134561.	2.1	13
49	Determination of activation energies and half-lives of thermoluminescence bands of chloroplasts applying the method of multicomponent curve resolution. <i>FEBS Letters</i> , 1980, 116, 293-297.	2.8	12
50	Pattern-reversal electroretinograms and visual evoked potentials in retinitis pigmentosa. <i>Documenta Ophthalmologica</i> , 2008, 117, 27-36.	2.2	12
51	ANTINOCICEPTIVE INTERACTIONS BETWEEN ANANDAMIDE AND ENDOMORPHIN-1 AT THE SPINAL LEVEL. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 400-405.	1.9	12
52	Synovial fluid $\beta$ -endorphin level in avascular necrosis, rheumatoid arthritis, and osteoarthritis of the femoral head and knee. A controlled pilot study. <i>Clinical Rheumatology</i> , 2011, 30, 537-540.	2.2	12
53	Potentiated hypnotic action with a combination of fentanyl, a calcium channel blocker and an $\beta$ -agonist in rats. <i>Acta Anaesthesiologica Scandinavica</i> , 1992, 36, 170-174.	1.6	11
54	Antinociceptive interactions of triple and quadruple combinations of endogenous ligands at the spinal level. <i>Brain Research</i> , 2007, 1155, 42-48.	2.2	11

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55	Long-lasting, distinct changes in central opioid receptor and urinary bladder functions in models of schizophrenia in rats. <i>European Journal of Pharmacology</i> , 2011, 661, 35-41.	3.5	11
56	The effects of juvenile capsaicin desensitization in rats: Behavioral impairments. <i>Physiology and Behavior</i> , 2014, 125, 38-44.	2.1	11
57	Enhancement of fentanyl analgesia by clonidine plus verapamil in rats. <i>Anesthesia and Analgesia</i> , 1990, 70, 284-8.	2.2	11
58	Dexmedetomidine-induced decrease in cerebral blood flow is attenuated by verapamil in rats: a laser Doppler study. <i>Canadian Journal of Anaesthesia</i> , 1993, 40, 748-754.	1.6	10
59	Drugs acting on calcium channels modulate the diuretic and micturition effects of dexmedetomidine in rats. <i>Life Sciences</i> , 1996, 59, 1247-1257.	4.3	10
60	Dose-independent antinociceptive interaction of endogenous ligands at the spinal level. <i>Brain Research</i> , 2004, 1029, 93-102.	2.2	10
61	Relationship between breath-hold time and physical performance in patients with cystic fibrosis. <i>European Journal of Applied Physiology</i> , 2005, 95, 172-178.	2.5	10
62	The antinociceptive potency of N-arachidonoyl-dopamine (NADA) and its interaction with endomorphin-1 at the spinal level. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 99, 731-737.	2.9	10
63	The Development and Aging of the Magnocellular and Parvocellular Visual Pathways as Indicated by VEP Recordings between 5 and 84 Years of Age. <i>Vision (Switzerland)</i> , 2017, 1, 7.	1.2	10
64	Impaired pupillary control in "schizophrenia-like" WISKET rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2018, 213, 34-42.	2.8	10
65	Electroporation-enhanced transdermal diclofenac sodium delivery into the knee joint in a rat model of acute arthritis. <i>Drug Design, Development and Therapy</i> , 2018, Volume 12, 1917-1930.	4.3	10
66	Characterization of dopamine D2 receptor binding, expression and signaling in different brain regions of control and schizophrenia-model Wisket rats. <i>Brain Research</i> , 2020, 1748, 147074.	2.2	10
67	Comparison of minor bleeding complications using dabigatran or enoxaparin after cemented total hip arthroplasty. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2014, 134, 449-457.	2.4	9
68	Postural control in degenerative diseases of the hip joint. <i>Clinical Biomechanics</i> , 2016, 35, 1-6.	1.2	9
69	Impaired GAD1 expression in schizophrenia-related WISKET rat model with sex-dependent aggressive behavior and motivational deficit. <i>Genes, Brain and Behavior</i> , 2019, 18, e12507.	2.2	9
70	The Significance of Intrathecal Catheter Location in Rats. <i>Anesthesia and Analgesia</i> , 2003, 96, 487-492.	2.2	8
71	Evaluation of ketamine systemic absorption from topical preparations. <i>Acta Biologica Hungarica</i> , 2006, 57, 387-389.	0.7	8
72	Inhibition of itch-related responses at spinal level in rats. <i>Acta Physiologica Hungarica</i> , 2011, 98, 480-490.	0.9	8

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73	Cognitive training improves the disturbed behavioral architecture of schizophrenia-like rats, <i>Physiology and Behavior</i> , 2019, 201, 70-82.	2.1	8
74	Upregulation of mu opioid receptors by voluntary morphine administration in drinking water. <i>Acta Biologica Hungarica</i> , 2003, 54, 157-166.	0.7	8
75	Characterization of antinociceptive potency of endomorphin-2 derivatives with unnatural amino acids in rats. <i>Acta Physiologica Hungarica</i> , 2012, 99, 353-363.	0.9	7
76	Synthesis, biochemical, pharmacological characterization and in silico profile modelling of highly potent opioid orvinol and thevinol derivatives. <i>European Journal of Medicinal Chemistry</i> , 2020, 191, 112145.	5.5	7
77	Fentanyl but Not Morphine or Buprenorphine Improves the Severity of Necrotizing Acute Pancreatitis in Rats. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1192.	4.1	7
78	Multiple nitric oxide sources in neurogenic plasma extravasation in rat hindpaw skin. <i>Life Sciences</i> , 1998, 63, 1119-1125.	4.3	6
79	Biomechanical comparison of three cemented stem removal techniques in revision hip surgery. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2011, 131, 1007-1012.	2.4	6
80	Telemetry monitoring for non-invasive assessment of changes in core temperature after spinal drug administration in freely moving rats. <i>Journal of Pharmacological and Toxicological Methods</i> , 2015, 72, 19-25.	0.7	6
81	Reduced mucosal side-effects of acetylsalicylic acid after conjugation with tris-hydroxymethyl-aminomethane. Synthesis and biological evaluation of a new anti-inflammatory compound. <i>European Journal of Pharmacology</i> , 2016, 781, 181-189.	3.5	6
82	Caffeine – treat or trigger? Disparate behavioral and long-term dopaminergic changes in control and schizophrenia-like Wisket rats. <i>Physiology and Behavior</i> , 2021, 236, 113410.	2.1	5
83	A Potential Interface between the Kynurenine Pathway and Autonomic Imbalance in Schizophrenia. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10016.	4.1	5
84	The antinociceptive interaction of anandamide and adenosine at the spinal level. <i>Pharmacology Biochemistry and Behavior</i> , 2009, 91, 374-379.	2.9	4
85	In vivo potency of different ligands on voltage-gated sodium channels. <i>European Journal of Pharmacology</i> , 2015, 762, 158-164.	3.5	4
86	Interaction of clozapine with metformin in a schizophrenia rat model. <i>Scientific Reports</i> , 2021, 11, 16862.	3.3	4
87	Pharmacological and functional biochemical properties of d-Ala2-d-Nle5-enkephalin-Arg-Phe. <i>Regulatory Peptides</i> , 2004, 122, 139-146.	1.9	3
88	Wisket rat model of schizophrenia: Impaired motivation and, altered brain structure, but no anhedonia. <i>Physiology and Behavior</i> , 2022, 244, 113651.	2.1	3
89	Sleep-Wake Rhythm and Oscillatory Pattern Analysis in a Multiple Hit Schizophrenia Rat Model (Wisket). <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 799271.	2.0	2
90	Antinociception by endogenous ligands at peripheral level. <i>Ideggyogyaszati Szemle</i> , 2011, 64, 193-207.	0.7	2

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91	Automating, Analyzing and Improving Pupillometry with Machine Learning Algorithms. Acta Cybernetica, 2019, 24, 197-209.	0.6	1
92	Drugs acting at calcium channels can influence the hypnotic-anesthetic effect of dexmedetomidine. Acta Biochimica Et Biophysica Hungarica, 1991, 26, 75-81.	0.1	1
93	ANTINOCICEPTIVE EFFECTS OF THE HYDROPHILIC $\hat{\imath}$ 2-ADRENOCEPTOR AGONIST ST-91 IN DIFFERENT TEST CIRCUMSTANCES AFTER INTRATHECAL ADMINISTRATION TO WISTAR RATS. Pharmacological Research, 1997, 35, 561-568.	7.1	0
94	Neurochemistry of Endogenous Antinociception. Advances in Neurobiology, 2011, , 417-535.	1.8	0
95	Trunk alignment in different standing positions in healthy subjects and stroke patients -a comparative study with a simple method for the everyday practice.: Trunk alignment in healthy and stroke subjects. Topics in Stroke Rehabilitation, 2018, 25, 561-568.	1.9	0
96	Effects of D2 dopamine receptor activation in the ventral pallidum on sensory gating and food-motivated learning in control and schizophrenia model (Wisket) rats. Behavioural Brain Research, 2021, 400, 113047.	2.2	0
97	Antinociceptive effect of continuous intrathecal infusion of endomorphin-1 in rats. European Journal of Anaesthesiology, 2001, 18, 139.	1.7	0