Jae-Young Seong

List of Publications by Year
in descending order

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117 papers	3,855 citations	126907 33 h-index	149698 56 g-index
119 all docs	119 docs citations	119 times ranked	4622 citing authors

#	Article	IF	Citations
1	Neurosteroid biosynthesis: Enzymatic pathways and neuroendocrine regulation by neurotransmitters and neuropeptides. Frontiers in Neuroendocrinology, 2009, 30, 259-301.	5.2	318
2	Molecular Evolution of Multiple Forms of Kisspeptins and GPR54 Receptors in Vertebrates. Endocrinology, 2009, 150, 2837-2846.	2.8	213
3	Suppression of NF-Î²B signaling by KEAP1 regulation of IKKÎ² activity through autophagic degradation and inhibition of phosphorylation. Cellular Signalling, 2010, 22, 1645-1654.	3.6	185
4	Coevolution of the Spexin/Galanin/Kisspeptin Family: Spexin Activates Galanin Receptor Type II and III. Endocrinology, 2014, 155, 1864-1873.	2.8	172
5	Natalisin, a tachykinin-like signaling system, regulates sexual activity and fecundity in insects. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3526-34.	7.1	129
6	The Novel Cellular Mechanism of Human 5-HT6 Receptor through an Interaction with Fyn. Journal of Biological Chemistry, 2007, 282, 5496-5505.	3.4	127
7	Identification of Farnesyl Pyrophosphate and N-Arachidonylglycine as Endogenous Ligands for GPR92. Journal of Biological Chemistry, 2008, 283, 21054-21064.	3.4	120
8	Revisiting the evolution of gonadotropin-releasing hormones and their receptors in vertebrates: Secrets hidden in genomes. General and Comparative Endocrinology, 2011, 170, 68-78.	1.8	110
9	Effect of ascorbic acid supplementation on testicular steroidogenesis and germ cell death in cadmium-treated male rats. Molecular and Cellular Endocrinology, 2004, 221, 57-66.	3.2	85
10	Molecular coevolution of kisspeptins and their receptors from fish to mammals. Annals of the New York Academy of Sciences, 2010, 1200, 67-74.	3.8	74
11	Activation of Central GABA_A- but Not of GABA_B â€“ Receptors Rapidly Reduces Pituitary LH Release and GnRH Gene Expression in the Preoptic/Anterior Hypothalamic Area of Ovariectomized Rats. Neuroendocrinology, 1995, 61, 655-662.	2.5	70
12	GABBR2 mutations determine phenotype in rett syndrome and epileptic encephalopathy. Annals of Neurology, 2017, 82, 466-478.	5.3	66
13	Expansion of Secretin-Like G Protein-Coupled Receptors and Their Peptide Ligands via Local Duplications Before and After Two Rounds of Whole-Genome Duplication. Molecular Biology and Evolution, 2013, 30, 1119-1130.	8.9	61
14	Development of Spexin-based Human Galanin Receptor Type II-Specific Agonists with Increased Stability in Serum and Anxiolytic Effect in Mice. Scientific Reports, 2016, 6, 21453.	3.3	61
15	Integrin-Linked Kinase Controls Notch1 Signaling by Down-Regulation of Protein Stability through Fbw7 Ubiquitin Ligase. Molecular and Cellular Biology, 2007, 27, 5565-5574.	2.3	56
16	Synchronous activation of gonadotropin-releasing hormone gene transcription and secretion by pulsatile kisspeptin stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5677-5682.	7.1	56
17	Prevertebrate Local Gene Duplication Facilitated Expansion of the Neuropeptide GPCR Superfamily. Molecular Biology and Evolution, 2015, 32, 2803-2817.	8.9	54
18	Identification of a novel insect neuropeptide, CNMa and its receptor. FEBS Letters, 2014, 588, 2037-2041.	2.8	51

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19	Conformational signatures in Î²-arrestin2 reveal natural biased agonism at a G-protein-coupled receptor. Communications Biology, 2018, 1, 128.	4.4	50
20	Cellular and Molecular Biology of Orphan G Proteinâ€Coupled Receptors. International Review of Cytology, 2006, 252, 163-218.	6.2	49
21	A Gonadotropin-Releasing Hormone-II Antagonist Induces Autophagy of Prostate Cancer Cells. Cancer Research, 2009, 69, 923-931.	0.9	46
22	mRNA expression and metabolic regulation of npy and agrp1/2 in the zebrafish brain. Neuroscience Letters, 2018, 668, 73-79.	2.1	45
23	Ala/Thr201 in Extracellular Loop 2 and Leu/Phe290 in Transmembrane Domain 6 of Type 1 Frog Gonadotropin-Releasing Hormone Receptor Confer Differential Ligand Sensitivity and Signal Transduction. Endocrinology, 2003, 144, 454-466.	2.8	42
24	Molecular cloning of the bullfrog kisspeptin receptor GPR54 with high sensitivity to Xenopus kisspeptin. Peptides, 2009, 30, 171-179.	2.4	42
25	Vasotocin and Mesotocin Stimulate the Biosynthesis of Neurosteroids in the Frog Brain. Journal of Neuroscience, 2006, 26, 6749-6760.	3.6	41
26	Molecular Coevolution of Neuropeptides Gonadotropin-Releasing Hormone and Kisspeptin with their Cognate G Protein-Coupled Receptors. Frontiers in Neuroscience, 2012, 6, 3.	2.8	40
27	Identification of Amino Acid Residues That Direct Differential Ligand Selectivity of Mammalian and Nonmammalian V1a Type Receptors for Arginine Vasopressin and Vasotocin. Journal of Biological Chemistry, 2004, 279, 54445-54453.	3.4	37
28	Membrane-Proximal Region of the Carboxyl Terminus of the Gonadotropin-Releasing Hormone Receptor (GnRHR) Confers Differential Signal Transduction between Mammalian and Nonmammalian GnRHRs. Molecular Endocrinology, 2005, 19, 722-731.	3.7	37
29	Splicing variants of the orphan G-protein-coupled receptor GPR56 regulate the activity of transcription factors associated with tumorigenesis. Journal of Cancer Research and Clinical Oncology, 2010, 136, 47-53.	2.5	37
30	CXCR7: a Î²-arrestin-biased receptor that potentiates cell migration and recruits Î²-arrestin2 exclusively through GÎ²Î³ subunits and GRK2. Cell and Bioscience, 2020, 10, 134.	4.8	37
31	Differential regulation of gonadotropin-releasing hormone (GnRH) receptor expression in the posterior mediobasal hypothalamus by steroid hormones: implication of GnRH neuronal activity. Molecular Brain Research, 1998, 53, 226-235.	2.3	36
32	Differential G protein coupling preference of mammalian and nonmammalian gonadotropin-releasing hormone receptors. Molecular and Cellular Endocrinology, 2003, 205, 89-98.	3.2	36
33	Position of Pro and Ser near Glu7.32in the Extracellular Loop 3 of Mammalian and Nonmammalian Gonadotropin-Releasing Hormone (GnRH) Receptors Is a Critical Determinant for Differential Ligand Selectivity for Mammalian GnRH and Chicken GnRH-II. Molecular Endocrinology, 2004, 18, 105-116.	3.7	35
34	Spexin-Based Galanin Receptor Type 2 Agonist for Comorbid Mood Disorders and Abnormal Body Weight. Frontiers in Neuroscience, 2019, 13, 391.	2.8	35
35	FAM19A5, a brain-specific chemokine, inhibits RANKL-induced osteoclast formation through formyl peptide receptor 2. Scientific Reports, 2017, 7, 15575.	3.3	34
36	Molecular evolution of neuropeptide receptors with regard to maintaining high affinity to their authentic ligands. General and Comparative Endocrinology, 2007, 153, 98-107.	1.8	33

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37	Acute Increase of GABAergic Neurotransmission Exerts a Stimulatory Effect on GnRH Gene Expression in the Preoptic/Anterior Hypothalamic Area of Ovariectomized, Estrogen- and Progesterone-Treated Adult Female Rats. Neuroendocrinology, 1995, 61, 486-492.	2.5	31
38	Structural and Molecular Conservation of Glucagon-Like Peptide-1 and Its Receptor Confers Selective Ligand-Receptor Interaction. Frontiers in Endocrinology, 2012, 3, 141.	3.5	31
39	Steroid Biosynthesis within the Frog Brain. Annals of the New York Academy of Sciences, 2009, 1163, 83-92.	3.8	29
40	Regulatory Roles of Heterogeneous Nuclear Ribonucleoprotein M and Nova-1 Protein in Alternative Splicing of Dopamine D2 Receptor Pre-mRNA. Journal of Biological Chemistry, 2011, 286, 25301-25308.	3.4	29
41	NMDA Receptor Antagonist Decreases the Progesterone-Induced Increase in GnRH Gene Expression in the Rat Hypothalamus. Neuroendocrinology, 1993, 58, 234-239.	2.5	28
42	Differential Effects of Gonadotropin-Releasing Hormone (GnRH)-I and GnRH-II on Prostate Cancer Cell Signaling and Death. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 4287-4298.	3.6	28
43	A Novel Glucagon-Related Peptide (GCRP) and Its Receptor GCRPR Account for Coevolution of Their Family Members in Vertebrates. PLoS ONE, 2013, 8, e65420.	2.5	28
44	Secretoneurin stimulates the production and release of luteinizing hormone in mouse LÎ²T2 gonadotropin cells. American Journal of Physiology - Endocrinology and Metabolism, 2011, 301, E288-E297.	3.5	27
45	Serum FAM19A5 levels: A novel biomarker for neuroinflammation and neurodegeneration in major depressive disorder. Brain, Behavior, and Immunity, 2020, 87, 852-859.	4.1	27
46	Excision of the First Intron from the Gonadotropin-releasing Hormone (GnRH) Transcript Serves as a Key Regulatory Step for GnRH Biosynthesis. Journal of Biological Chemistry, 2003, 278, 18037-18044.	3.4	25
47	Extracellular Loop 3 (EL3) and EL3-Proximal Transmembrane Helix 7 of the Mammalian Type I and Type II Gonadotropin-Releasing Hormone (GnRH) Receptors Determine Differential Ligand Selectivity to GnRH-I and GnRH-II. Molecular Pharmacology, 2005, 67, 1099-1110.	2.3	25
48	Does Kisspeptin Belong to the Proposed RF-Amide Peptide Family?. Frontiers in Endocrinology, 2014, 5, 134.	3.5	25
49	Local Duplication of Gonadotropin-Releasing Hormone (GnRH) Receptor before Two Rounds of Whole Genome Duplication and Origin of the Mammalian GnRH Receptor. PLoS ONE, 2014, 9, e87901.	2.5	25
50	Ligand Binding Pocket Formed by Evolutionarily Conserved Residues in the Glucagon-like Peptide-1 (GLP-1) Receptor Core Domain. Journal of Biological Chemistry, 2015, 290, 5696-5706.	3.4	24
51	Replacement of the C-terminal Trp-cage of exendin-4 with a fatty acid improves therapeutic utility. Biochemical Pharmacology, 2018, 151, 59-68.	4.4	24
52	Distribution and neuronal circuit of spexin 1/2 neurons in the zebrafish CNS. Scientific Reports, 2019, 9, 5025.	3.3	23
53	Exonic Splicing Enhancer-Dependent Splicing of the Gonadotropin-Releasing Hormone Premessenger Ribonucleic Acid Is Mediated by Tra2Î±, a 40-Kilodalton Serine/Arginine-Rich Protein. Molecular Endocrinology, 2002, 16, 2426-2438.	3.7	22
54	Phylogenetic History, Pharmacological Features, and Signal Transduction of Neurotensin Receptors in Vertebrates. Annals of the New York Academy of Sciences, 2009, 1163, 169-178.	3.8	22

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55	Intermolecular cross-talk between NTR1 and NTR2 neurotensin receptor promotes intracellular sequestration and functional inhibition of NTR1 receptors. Biochemical and Biophysical Research Communications, 2010, 391, 1007-1013.	2.1	22
56	Overexpression of Spexin 1 in the Dorsal Habenula Reduces Anxiety in Zebrafish. Frontiers in Neural Circuits, 2019, 13, 53.	2.8	22
57	Class-C SOX Transcription Factors Control GnRH Gene Expression via the Intronic Transcriptional Enhancer. Molecular Endocrinology, 2011, 25, 1184-1196.	3.7	21
58	A Splicing Variant of NME1 Negatively Regulates NF-ÎºB Signaling and Inhibits Cancer Metastasis by Interacting with IKKÎ². Journal of Biological Chemistry, 2014, 289, 17709-17720.	3.4	21
59	Evolutionarily Conserved Residues at Glucagon-like Peptide-1 (GLP-1) Receptor Core Confer Ligand-induced Receptor Activation. Journal of Biological Chemistry, 2012, 287, 3873-3884.	3.4	20
60	GnRH-II analogs for selective activation and inhibition of non-mammalian and type-II mammalian GnRH receptors. Molecules and Cells, 2003, 16, 173-9.	2.6	20
61	Preferential ligand selectivity of the monkey type-II gonadotropin-releasing hormone (GnRH) receptor for GnRH-2 and its analogs. Molecular and Cellular Endocrinology, 2003, 209, 33-42.	3.2	19
62	CXCL14 enhances proliferation and migration of NCIâ€H460 human lung cancer cells overexpressing the glycoproteins containing heparan sulfate or sialic acid. Journal of Cellular Biochemistry, 2013, 114, 1084-1096.	2.6	19
63	The accessory proteins REEP5 and REEP6 refine CXCR1-mediated cellular responses and lung cancer progression. Scientific Reports, 2016, 6, 39041.	3.3	19
64	Cloning and activation of the bullfrog apelin receptor: Gi/o coupling and high affinity for [Pro1]apelin-13. Molecular and Cellular Endocrinology, 2007, 277, 51-60.	3.2	18
65	Tyr1 and Ile7 of Glucose-Dependent Insulinotropic Polypeptide (GIP) Confer Differential Ligand Selectivity toward GIP and Glucagon-like Peptide-1 Receptors. Molecules and Cells, 2010, 30, 149-154.	2.6	18
66	MOLECULAR EVOLUTION OF GPCRS: GLP1/GLP1 receptors. Journal of Molecular Endocrinology, 2014, 52, T15-T27.	2.5	18
67	Brain-specific chemokine FAM19A5 induces hypothalamic inflammation. Biochemical and Biophysical Research Communications, 2020, 523, 829-834.	2.1	18
68	Nafamostat mesilate negatively regulates the metastasis of triple-negative breast cancer cells. Archives of Pharmacal Research, 2018, 41, 229-242.	6.3	17
69	FAM19A5 Expression During Embryogenesis and in the Adult Traumatic Brain of FAM19A5-LacZ Knock-in Mice. Frontiers in Neuroscience, 2019, 13, 917.	2.8	17
70	SP-8356, a (1S)-(â€“)-verbenone derivative, exerts in vitro and in vivo anti-breast cancer effects by inhibiting NF-ÎºB signaling. Scientific Reports, 2019, 9, 6595.	3.3	17
71	Lysophosphatidic acid signaling through LPA receptor subtype 1 induces colony scattering of gastrointestinal cancer cells. Journal of Cancer Research and Clinical Oncology, 2009, 135, 45-52.	2.5	16
72	Regulation of IÎºB Kinase by GÎ²L through Recruitment of the Protein Phosphatases. Molecules and Cells, 2010, 30, 527-532.	2.6	16

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73	Establishment of a NanoBiT-Based Cytosolic Ca2+ Sensor by Optimizing Calmodulin-Binding Motif and Protein Expression Levels. Molecules and Cells, 2020, 43, 909-920.	2.6	16
74	Presence of gonadotropin-releasing hormone mRNA in the rat olfactory piriform cortex. Brain Research, 1994, 648, 148-151.	2.2	15
75	Soluble overexpression and purification of bioactive human CCL2 in E. coli by maltose-binding protein. Molecular Biology Reports, 2015, 42, 651-663.	2.3	14
76	Cooperative Actions of Tra2Î± with 9G8 and SRp30c in the RNA Splicing of the Gonadotropin-releasing Hormone Gene Transcript. Journal of Biological Chemistry, 2006, 281, 401-409.	3.4	13
77	Nova-1 Mediates Glucocorticoid-induced Inhibition of Pre-mRNA Splicing of Gonadotropin-releasing Hormone Transcripts. Journal of Biological Chemistry, 2009, 284, 12792-12800.	3.4	13
78	Anti-Cancer Activity of a Novel Small Molecule Compound That Simultaneously Activates p53 and Inhibits NF-ÎºB Signaling. PLoS ONE, 2012, 7, e44259.	2.5	13
79	GnRH pre-mRNA splicing: solving the mystery of a natureâ€™s knockout, hpg mouse. Biochemical and Biophysical Research Communications, 2005, 326, 261-267.	2.1	12
80	Spatiotemporal Expression and Functional Implication of CXCL14 in the Developing Mice Cerebellum. Molecules and Cells, 2012, 34, 289-294.	2.6	12
81	Enhanced Splicing of the First Intron from the Gonadotropin-Releasing Hormone (GnRH) Primary Transcript Is a Prerequisite for Mature GnRH Messenger RNA: Presence of GnRH Neuron-Specific Splicing Factors. Molecular Endocrinology, 1999, 13, 1882-1895.	3.7	12
82	Gonadotropin-Releasing Hormone Stimulates the Biosynthesis of Pregnenolone Sulfate and Dehydroepiandrosterone Sulfate in the Hypothalamus. Endocrinology, 2013, 154, 2114-2128.	2.8	11
83	A Novel Long-Acting Glucagon-Like Peptide-1 Agonist with Improved Efficacy in Insulin Secretion and Î²-Cell Growth. Endocrinology and Metabolism, 2014, 29, 320.	3.0	11
84	Analysis of exonic splicing enhancers in the mouse gonadotropin-releasing hormone (GnRH) gene. Molecular and Cellular Endocrinology, 2001, 173, 157-166.	3.2	10
85	Molecular interaction between kisspeptin decapeptide analogs and a lipid membrane. Archives of Biochemistry and Biophysics, 2009, 485, 109-114.	3.0	10
86	Insulin Contributes to Fine-Tuning of the Pancreatic Beta-Cell Response to Glucagon-Like Peptide-1. Molecules and Cells, 2011, 32, 389-396.	2.6	10
87	The Role of Corticotropin-Releasing Hormone at Peripheral Nociceptors: Implications for Pain Modulation. Biomedicines, 2020, 8, 623.	3.2	10
88	The unique expression profile of FAM19A1 in the mouse brain and its association with hyperactivity, long-term memory and fear acquisition. Scientific Reports, 2020, 10, 3969.	3.3	10
89	Spexin Regulates Hypothalamic Leptin Action on Feeding Behavior. Biomolecules, 2022, 12, 236.	4.0	10
90	Proliferation of TSU-Pr1, a human prostatic carcinoma cell line is stimulated by gonadotropin-releasing hormone. Life Sciences, 2004, 74, 3141-3152.	4.3	9

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91	Neuropeptide GPCRs in Neuroendocrinology. Frontiers in Endocrinology, 2014, 5, 41.	3.5	9
92	Distribution of galanin receptor 2b neurons and interaction with galanin in the zebrafish central nervous system. Neuroscience Letters, 2016, 628, 153-160.	2.1	9
93	Apoptotic Death of Prostate Cancer Cells by a Gonadotropin-Releasing Hormone-II Antagonist. PLoS ONE, 2014, 9, e99723.	2.5	9
94	GÎ²L regulates TNFÎ±-induced NF-ÐºB signaling by directly inhibiting the activation of IÐºB kinase. Cellular Signalling, 2008, 20, 2127-2133.	3.6	8
95	Monitoring GPCR-β-arrestin1/2 Interactions in Real Time Living Systems to Accelerate Drug Discovery. Journal of Visualized Experiments, 2019, , .	0.3	7
96	FAM19A5l Affects Mustard Oil-Induced Peripheral Nociception in Zebrafish. Molecular Neurobiology, 2021, 58, 4770-4785.	4.0	7
97	First Intron Excision of GnRH Pre-mRNA During Postnatal Development of Normal Mice and Adult Hypogonadal Mice. Endocrinology, 2001, 142, 4454-4461.	2.8	7
98	Analysis of CCR2 splice variant expression patterns and functional properties. Cell and Bioscience, 2022, 12, 59.	4.8	6
99	GnRH pre-mRNA splicing: role of exonic splicing enhancer. Progress in Brain Research, 2002, 141, 209-219.	1.4	5
100	Dimer of arfaptin 2 regulates NF-ÎºB signaling by interacting with IKKÎ²/NEMO and inhibiting IKKÎ² kinase activity. Cellular Signalling, 2015, 27, 2173-2181.	3.6	5
101	Serum FAM19A5 in neuromyelitis optica spectrum disorders: Can it be a new biomarker representing clinical status?. Multiple Sclerosis Journal, 2020, 26, 1700-1707.	3.0	5
102	A NanoBiT assay to monitor membrane proteins trafficking for drug discovery and drug development. Communications Biology, 2022, 5, 212.	4.4	5
103	Extracellular loop 3 (ECL3) and ECL3-proximal transmembrane domains VI and VII of the mesotocin and vasotocin receptors confer differential ligand selectivity and signaling activity. General and Comparative Endocrinology, 2008, 156, 71-82.	1.8	4
104	Histidine7.36(305) in the conserved peptide receptor activation domain of the gonadotropin releasing hormone receptor couples peptide binding and receptor activation. Molecular and Cellular Endocrinology, 2015, 402, 95-106.	3.2	4
105	NME1L Negatively Regulates IGF1â€Dependent Proliferation of Breast Cancer Cells. Journal of Cellular Biochemistry, 2016, 117, 1454-1463.	2.6	4
106	Exploring the molecular structures that confer ligand selectivity for galanin type II and III receptors. PLoS ONE, 2020, 15, e0230872.	2.5	4
107	Evolutionary and Comparative Genomics to Drive Rational Drug Design, with Particular Focus on Neuropeptide Seven-Transmembrane Receptors. Biomolecules and Therapeutics, 2017, 25, 57-68.	2.4	4
108	Cloning and characterization of androgen receptor from bullfrog, Rana catesbeiana. General and Comparative Endocrinology, 2003, 134, 10-17.	1.8	3

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109	Antiobesity therapeutics with complementary dualâ€agonist activities at glucagon and glucagonâ€like peptide <scp>1</scp> receptors. Diabetes, Obesity and Metabolism, 2022, 24, 50-60.	4.4	2
110	Molecular coâ€evolution of Gonadotropinâ€releasing hormones and their receptors. Animal Cells and Systems, 2007, 11, 93-98.	0.2	1
111	Alterations in Dendritic Spine Maturation and Neurite Development Mediated by FAM19A1. Cells, 2021, 10, 1868.	4.1	0
112	Physiological Function of G Protein-Coupled Receptors (GPCRs) and Research Trends for Orphan GPCRs. Journal of Korean Endocrine Society, 2005, 20, 185.	0.1	0
113	Characterization of Functional Domains in NME1L Regulation of NF-Î²B Signaling. Molecules and Cells, 2016, 39, 403-409.	2.6	0
114	Title is missing!. , 2020, 15, e0230872.		0
115	Title is missing!. , 2020, 15, e0230872.		0
116	Title is missing!. , 2020, 15, e0230872.		0
117	Title is missing!. , 2020, 15, e0230872.		0