Juan Roa

List of Publications by Year
in descending order

71 papers	8,046 citations	57631 44 h-index	82410 72 g-index
72 all docs	72 docs citations	72 times ranked	4796 citing authors

#	Article	IF	Citations
1	Developmental and Hormonally Regulated Messenger Ribonucleic Acid Expression of KiSS-1 and Its Putative Receptor, GPR54, in Rat Hypothalamus and Potent Luteinizing Hormone-Releasing Activity of KiSS-1 Peptide. Endocrinology, 2004, 145, 4565-4574.	1.4	641
2	Changes in Hypothalamic KiSS-1 System and Restoration of Pubertal Activation of the Reproductive Axis by Kisspeptin in Undernutrition. Endocrinology, 2005, 146, 3917-3925.	1.4	475
3	Sexual Differentiation of Kiss1 Gene Expression in the Brain of the Rat. Endocrinology, 2007, 148, 1774-1783.	1.4	422
4	Characterization of the Potent Luteinizing Hormone-Releasing Activity of KiSS-1 Peptide, the Natural Ligand of GPR54. Endocrinology, 2005, 146, 156-163.	1.4	412
5	Advanced vaginal opening and precocious activation of the reproductive axis by KiSS-1 peptide, the endogenous ligand of GPR54. Journal of Physiology, 2004, 561, 379-386.	1.3	403
6	New frontiers in kisspeptin/GPR54 physiology as fundamental gatekeepers of reproductive function. Frontiers in Neuroendocrinology, 2008, 29, 48-69.	2.5	287
7	Effects of KiSS-1 Peptide, the Natural Ligand of GPR54, on Follicle-Stimulating Hormone Secretion in the Rat. Endocrinology, 2005, 146, 1689-1697.	1.4	277
8	Leptin Deficiency and Diet-Induced Obesity Reduce Hypothalamic Kisspeptin Expression in Mice. Endocrinology, 2011, 152, 1541-1550.	1.4	247
9	Expression of KiSS-1 in Rat Ovary: Putative Local Regulator of Ovulation?. Endocrinology, 2006, 147, 4852-4862.	1.4	224
10	Expression of Hypothalamic KiSS-1 System and Rescue of Defective Gonadotropic Responses by Kisspeptin in Streptozotocin-Induced Diabetic Male Rats. Diabetes, 2006, 55, 2602-2610.	0.3	217
11	The Mammalian Target of Rapamycin as Novel Central Regulator of Puberty Onset via Modulation of Hypothalamic Kiss1 System. Endocrinology, 2009, 150, 5016-5026.	1.4	194
12	A microRNA switch regulates the rise in hypothalamic GnRH production before puberty. Nature Neuroscience, 2016, 19, 835-844.	7.1	174
13	Dependence of fertility on kisspeptinâ€"Gpr54 signaling at the GnRH neuron. Nature Communications, 2013, 4, 2492.	5.8	173
14	Hypothalamic AMPK-ER Stress-JNK1 Axis Mediates the Central Actions of Thyroid Hormones on Energy Balance. Cell Metabolism, 2017, 26, 212-229.e12.	7.2	167
15	Metabolic control of puberty onset: New players, new mechanisms. Molecular and Cellular Endocrinology, 2010, 324, 87-94.	1.6	158
16	Hypothalamic Expression of KiSS-1 System and Gonadotropin-Releasing Effects of Kisspeptin in Different Reproductive States of the Female Rat. Endocrinology, 2006, 147, 2864-2878.	1.4	155
17	KiSS-1/kisspeptins and the metabolic control of reproduction: Physiologic roles and putative physiopathological implications. Peptides, 2009, 30, 139-145.	1.2	149
18	KiSS-1 in the mammalian ovary: distribution of kisspeptin in human and marmoset and alterations in KiSS-1 mRNA levels in a rat model of ovulatory dysfunction. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E520-E531.	1.8	146

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19	Direct Regulation of GnRH Neuron Excitability by Arcuate Nucleus POMC and NPY Neuron Neuropeptides in Female Mice. Endocrinology, 2012, 153, 5587-5599.	1.4	145
20	The Anorexigenic Neuropeptide, Nesfatin-1, Is Indispensable for Normal Puberty Onset in the Female Rat. Journal of Neuroscience, 2010, 30, 7783-7792.	1.7	126
21	Fusarium as a model for studying virulence in soilborne plant pathogens. Physiological and Molecular Plant Pathology, 2003, 62, 87-98.	1.3	123
22	Defining a novel leptinâ€"melanocortinâ€"kisspeptin pathway involved in the metabolic control of puberty. Molecular Metabolism, 2016, 5, 844-857.	3.0	123
23	Kisspeptins in Reproductive Biology: Consensus Knowledge and Recent Developments1. Biology of Reproduction, 2011, 85, 650-660.	1.2	120
24	Persistent Impairment of Hypothalamic KiSS-1 System after Exposures to Estrogenic Compounds at Critical Periods of Brain Sex Differentiation. Endocrinology, 2009, 150, 2359-2367.	1.4	118
25	Connecting metabolism and gonadal function: Novel central neuropeptide pathways involved in the metabolic control of puberty and fertility. Frontiers in Neuroendocrinology, 2018, 48, 37-49.	2.5	108
26	Connecting metabolism and reproduction: Roles of central energy sensors and key molecular mediators. Molecular and Cellular Endocrinology, 2014, 397, 4-14.	1.6	105
27	Effects of Single or Repeated Intravenous Administration of Kisspeptin upon Dynamic LH Secretion in Conscious Male Rats. Endocrinology, 2006, 147, 2696-2704.	1.4	102
28	Ghrelin Inhibits the Proliferative Activity of Immature Leydig Cells in Vivo and Regulates Stem Cell Factor Messenger Ribonucleic Acid Expression in Rat Testis. Endocrinology, 2004, 145, 4825-4834.	1.4	98
29	Energy balance and puberty onset: emerging role of central mTOR signaling. Trends in Endocrinology and Metabolism, 2010, 21, 519-528.	3.1	96
30	Physiological Roles of Gonadotropin-Inhibitory Hormone Signaling in the Control of Mammalian Reproductive Axis: Studies in the NPFF1 Receptor Null Mouse. Endocrinology, 2014, 155, 2953-2965.	1.4	96
31	Hypothalamic mTOR pathway mediates thyroid hormoneâ€induced hyperphagia in hyperthyroidism. Journal of Pathology, 2012, 227, 209-222.	2.1	93
32	Kisspeptins and the control of gonadotropin secretion in male and female rodents. Peptides, 2009, 30, 57-66.	1.2	89
33	Desensitization of gonadotropin responses to kisspeptin in the female rat: analyses of LH and FSH secretion at different developmental and metabolic states. American Journal of Physiology - Endocrinology and Metabolism, 2008, 294, E1088-E1096.	1.8	85
34	Opposite Roles of Estrogen Receptor (ER)-Î± and ERÎ² in the Modulation of Luteinizing Hormone Responses to Kisspeptin in the Female Rat: Implications for the Generation of the Preovulatory Surge. Endocrinology, 2008, 149, 1627-1637.	1.4	85
35	Novel expression and functional role of ghrelin in chicken ovary. Molecular and Cellular Endocrinology, 2006, 257-258, 15-25.	1.6	84
36	SIRT1 mediates obesity- and nutrient-dependent perturbation of pubertal timing by epigenetically controlling Kiss1 expression. Nature Communications, 2018, 9, 4194.	5.8	84

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37	Hypothalamic mTOR: The Rookie Energy Sensor. Current Molecular Medicine, 2014, 14, 3-21.	0.6	82
38	KiSS-1 system and reproduction: Comparative aspects and roles in the control of female gonadotropic axis in mammals. General and Comparative Endocrinology, 2007, 153, 132-140.	0.8	80
39	Alterations in Hypothalamic KiSS-1 System in Experimental Diabetes: Early Changes and Functional Consequences. Endocrinology, 2009, 150, 784-794.	1.4	72
40	Direct Actions of Kisspeptins on GnRH Neurons Permit Attainment of Fertility but are Insufficient to Fully Preserve Gonadotropic Axis Activity. Scientific Reports, 2016, 6, 19206.	1.6	63
41	Metabolic regulation of female puberty via hypothalamic AMPKâ€"kisspeptin signaling. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10758-E10767.	3.3	55
42	Development and validation of a method for precise dating of female puberty in laboratory rodents: The puberty ovarian maturation score (Pub-Score). Scientific Reports, 2017, 7, 46381.	1.6	51
43	In Vivo and in Vitro Structure-Activity Relationships and Structural Conformation of Kisspeptin-10-Related Peptides. Molecular Pharmacology, 2009, 76, 58-67.	1.0	50
44	Central Ceramide Signaling Mediates Obesity-Induced Precocious Puberty. Cell Metabolism, 2020, 32, 951-966.e8.	7.2	49
45	SF1-Specific AMPKÎ±1 Deletion Protects Against Diet-Induced Obesity. Diabetes, 2018, 67, 2213-2226.	0.3	48
46	Direct stimulatory effect of ghrelin on pituitary release of LH through a nitric oxide-dependent mechanism that is modulated by estrogen. Reproduction, 2007, 133, 1223-1232.	1.1	47
47	Small extracellular vesicle-mediated targeting of hypothalamic AMPKÎ±1 corrects obesity through BAT activation. Nature Metabolism, 2021, 3, 1415-1431.	5.1	45
48	Effects and Interactions of Tachykinins and Dynorphin on FSH and LH Secretion in Developing and Adult Rats. Endocrinology, 2015, 156, 576-588.	1.4	44
49	Neuromedin S as Novel Putative Regulator of Luteinizing Hormone Secretion. Endocrinology, 2007, 148, 813-823.	1.4	42
50	Hypothalamic miR-30 regulates puberty onset via repression of the puberty-suppressing factor, Mkrn3. PLoS Biology, 2019, 17, e3000532.	2.6	42
51	Follicle-Stimulating Hormone Responses to Kisspeptin in the Female Rat at the Preovulatory Period: Modulation by Estrogen and Progesterone Receptors. Endocrinology, 2008, 149, 5783-5790.	1.4	38
52	Gonadal hormone-dependent vs. -independent effects of kisspeptin signaling in the control of body weight and metabolic homeostasis. Metabolism: Clinical and Experimental, 2019, 98, 84-94.	1.5	37
53	Role of GnRH Neurons and Their Neuronal Afferents as Key Integrators between Food Intake Regulatory Signals and the Control of Reproduction. International Journal of Endocrinology, 2013, 2013, 1-10.	0.6	36
54	Serotonin Acts Through 5-HT1 and 5-HT2 Receptors to Exert Biphasic Actions on GnRH Neuron Excitability in the Mouse. Endocrinology, 2014, 155, 513-524.	1.4	36

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55	Effects of galanin-like peptide on luteinizing hormone secretion in the rat: sexually dimorphic responses and enhanced sensitivity at male puberty. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E1281-E1289.	1.8	31
56	Expression of KiSS-1 in rat oviduct: possible involvement in prevention of ectopic implantation?. Cell and Tissue Research, 2007, 329, 571-579.	1.5	30
57	Intergenerational Influence of Paternal Obesity on Metabolic and Reproductive Health Parameters of the Offspring: Male-Preferential Impact and Involvement of Kiss1-Mediated Pathways. Endocrinology, 2018, 159, 1005-1018.	1.4	29
58	Differential modulation of gonadotropin responses to kisspeptin by aminoacidergic, peptidergic, and nitric oxide neurotransmission. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E1252-E1263.	1.8	28
59	Crowding and Follicular Fate: Spatial Determinants of Follicular Reserve and Activation of Follicular Growth in the Mammalian Ovary. PLoS ONE, 2015, 10, e0144099.	1.1	27
60	Metabolic and Gonadotropic Impact of Sequential Obesogenic Insults in the Female: Influence of the Loss of Ovarian Secretion. Endocrinology, 2015, 156, 2984-2998.	1.4	27
61	Novel role of the anorexigenic peptide neuromedin U in the control of LH secretion and its regulation by gonadal hormones and photoperiod. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1265-E1273.	1.8	26
62	The Fusarium oxysporum sti35 gene functions in thiamine biosynthesis and oxidative stress response. Fungal Genetics and Biology, 2008, 45, 6-16.	0.9	23
63	Selective role of neuropeptide Y receptor subtype Y₂ in the control of gonadotropin secretion in the rat. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E1385-E1392.	1.8	22
64	Stimulatory effect of PYY-(3â€“36) on gonadotropin secretion is potentiated in fasted rats. American Journal of Physiology - Endocrinology and Metabolism, 2006, 290, E1162-E1171.	1.8	19
65	Sex-Biased Physiological Roles of NPFF1R, the Canonical Receptor of RFRP-3, in Food Intake and Metabolic Homeostasis Revealed by its Congenital Ablation in mice. Metabolism: Clinical and Experimental, 2018, 87, 87-97.	1.5	16
66	AMP-activated protein kinase (AMPK) signaling in GnRH neurons links energy status and reproduction. Metabolism: Clinical and Experimental, 2021, 115, 154460.	1.5	16
67	Changes in keratin 8/18 expression in human granulosa cell lineage are associated to cell death/survival events: potential implications for the maintenance of the ovarian reserve. Human Reproduction, 2018, 33, 680-689.	0.4	8
68	Neuropeptide Control of Puberty: Beyond Kisspeptins. Seminars in Reproductive Medicine, 2019, 37, 155-165.	0.5	8
69	Connecting nutritional deprivation and pubertal inhibition via GRK2-mediated repression of kisspeptin actions in GnRH neurons. Metabolism: Clinical and Experimental, 2022, 129, 155141.	1.5	5
70	Maternal serum ghrelin levels in early IVF pregnancies: lack of prognostic value for viable pregnancy and altered post-prandial responses. Human Reproduction, 2008, 23, 958-963.	0.4	3
71	Unique Features of a Unique Cell: The Wonder World of GnRH Neurons. Endocrinology, 2018, 159, 3895-3896.	1.4	3