

ValÃ©rie Simonneaux

List of Publications by Year in descending order

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92
papers

4,614
citations

109321

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106344

65
g-index

96
all docs

96
docs citations

96
times ranked

2970
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Generation of the Melatonin Endocrine Message in Mammals: A Review of the Complex Regulation of Melatonin Synthesis by Norepinephrine, Peptides, and Other Pineal Transmitters. <i>Pharmacological Reviews</i> , 2003, 55, 325-395. | 16.0 | 576 |
| 2 | Adrenergic signals direct rhythmic expression of transcriptional repressor CREM in the pineal gland. <i>Nature</i> , 1993, 365, 314-320. | 27.8 | 397 |
| 3 | Kisspeptin Mediates the Photoperiodic Control of Reproduction in Hamsters. <i>Current Biology</i> , 2006, 16, 1730-1735. | 3.9 | 235 |
| 4 | RFamide-Related Peptide Gene Is a Melatonin-Driven Photoperiodic Gene. <i>Endocrinology</i> , 2008, 149, 902-912. | 2.8 | 181 |
| 5 | Stimulatory Effect of RFRP-3 on the Gonadotrophic Axis in the Male Syrian Hamster: The Exception Proves the Rule. <i>Endocrinology</i> , 2012, 153, 1352-1363. | 2.8 | 165 |
| 6 | Suprachiasmatic control of melatonin synthesis in rats: inhibitory and stimulatory mechanisms. <i>European Journal of Neuroscience</i> , 2003, 17, 221-228. | 2.6 | 163 |
| 7 | Melatonin sees the light: blocking GABA-ergic transmission in the paraventricular nucleus induces daytime secretion of melatonin. <i>European Journal of Neuroscience</i> , 2000, 12, 3146-3154. | 2.6 | 150 |
| 8 | The neuroanatomy of the kisspeptin system in the mammalian brain. <i>Peptides</i> , 2009, 30, 26-33. | 2.4 | 122 |
| 9 | Melatonin Regulates Type 2 Deiodinase Gene Expression in the Syrian Hamster. <i>Endocrinology</i> , 2006, 147, 4680-4687. | 2.8 | 121 |
| 10 | The circadian clock stops ticking during deep hibernation in the European hamster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 13816-13820. | 7.1 | 121 |
| 11 | Kisspeptin: A key link to seasonal breeding. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2007, 8, 57-65. | 5.7 | 113 |
| 12 | A Circannual Clock Drives Expression of Genes Central for Seasonal Reproduction. <i>Current Biology</i> , 2014, 24, 1500-1506. | 3.9 | 109 |
| 13 | TSH restores a summer phenotype in photoinhibited mammals via the RFamides RFRP3 and kisspeptin. <i>FASEB Journal</i> , 2013, 27, 2677-2686. | 0.5 | 91 |
| 14 | Kisspeptin and the seasonal control of reproduction in hamsters. <i>Peptides</i> , 2009, 30, 146-153. | 2.4 | 90 |
| 15 | Melatonin Controls Seasonal Breeding by a Network of Hypothalamic Targets. <i>Neuroendocrinology</i> , 2009, 90, 1-14. | 2.5 | 82 |
| 16 | Kisspeptins and RFRP-3 Act in Concert to Synchronize Rodent Reproduction with Seasons. <i>Frontiers in Neuroscience</i> , 2013, 7, 22. | 2.8 | 74 |
| 17 | HIOMT drives the photoperiodic changes in the amplitude of the melatonin peak of the Siberian hamster. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 278, R1339-R1345. | 1.8 | 69 |
| 18 | Comparison of the effects of peripherally administered kisspeptins. <i>Regulatory Peptides</i> , 2009, 152, 95-100. | 1.9 | 64 |

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|----|---|-----|-----------|
| 19 | Maturation of kisspeptinergic neurons coincides with puberty onset in male rats. <i>Peptides</i> , 2010, 31, 275-283. | 2.4 | 55 |
| 20 | Evidence for melatonin synthesis in rodent Harderian gland: A dynamic in vitro study. <i>Journal of Pineal Research</i> , 1998, 25, 54-64. | 7.4 | 54 |
| 21 | A Kiss to drive rhythms in reproduction. <i>European Journal of Neuroscience</i> , 2020, 51, 509-530. | 2.6 | 50 |
| 22 | Adrenergic and peptidergic regulations of hydroxyindole-O-methyltransferase activity in rat pineal gland. <i>Brain Research</i> , 1997, 777, 247-250. | 2.2 | 49 |
| 23 | Presynaptic and Postsynaptic Effects of Neuropeptide Y in the Rat Pineal Gland. <i>Journal of Neurochemistry</i> , 1994, 62, 2464-2471. | 3.9 | 49 |
| 24 | Melatonin Controls Photoperiodic Changes in Tanycyte Vimentin and Neural Cell Adhesion Molecule Expression in the Djungarian Hamster (<i>Phodopus sungorus</i>). <i>Endocrinology</i> , 2011, 152, 3871-3883. | 2.8 | 46 |
| 25 | Maternal photoperiod programs hypothalamic thyroid status via the fetal pituitary gland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8408-8413. | 7.1 | 46 |
| 26 | Hypocretin (orexin) in the rat pineal gland: a central transmitter with effects on noradrenaline-induced release of melatonin. <i>European Journal of Neuroscience</i> , 2001, 14, 419-425. | 2.6 | 45 |
| 27 | miR-132/212 Modulates Seasonal Adaptation and Dendritic Morphology of the Central Circadian Clock. <i>Cell Reports</i> , 2017, 19, 505-520. | 6.4 | 45 |
| 28 | Photoneural Regulation of Rat Pineal Hydroxyindole-O-Methyltransferase (HIOMT) Messenger Ribonucleic Acid Expression: An Analysis of Its Complex Relationship with HIOMT Activity. <i>Endocrinology</i> , 1999, 140, 1375-1384. | 2.8 | 44 |
| 29 | Comparative analysis of kisspeptin-immunoreactivity reveals genuine differences in the hypothalamic Kiss1 systems between rats and mice. <i>Peptides</i> , 2013, 45, 85-90. | 2.4 | 43 |
| 30 | A Multi-Oscillatory Circadian System Times Female Reproduction. <i>Frontiers in Endocrinology</i> , 2015, 6, 157. | 3.5 | 43 |
| 31 | Evidence for a Putative Circadian Kiss-Clock in the Hypothalamic AVPV in Female Mice. <i>Endocrinology</i> , 2015, 156, 2999-3011. | 2.8 | 43 |
| 32 | Kisspeptin and RFRP-3 differentially regulate food intake and metabolic neuropeptides in the female desert jerboa. <i>Scientific Reports</i> , 2016, 6, 36057. | 3.3 | 40 |
| 33 | Photoperiodic Control of the Rat Pineal Arylalkylamine-N-Acetyltransferase and Hydroxyindole-O-Methyltransferase Gene Expression and Its Effect on Melatonin Synthesis. <i>Journal of Biological Rhythms</i> , 1999, 14, 105-115. | 2.6 | 39 |
| 34 | Functional Implications of RFRP-3 in the Central Control of Daily and Seasonal Rhythms in Reproduction. <i>Frontiers in Endocrinology</i> , 2019, 10, 183. | 3.5 | 39 |
| 35 | Seasonal variations of clock gene expression in the suprachiasmatic nuclei and pars tuberalis of the European hamster (<i>Cricetus cricetus</i>). <i>European Journal of Neuroscience</i> , 2007, 25, 1529-1536. | 2.6 | 36 |
| 36 | The role of the intracellular and extracellular serotonin in the regulation of melatonin production in rat pinealocytes. <i>Journal of Pineal Research</i> , 1997, 23, 63-71. | 7.4 | 35 |

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|----|--|-----|-----------|
| 37 | Seasonal Regulation of Reproduction in Mammals. , 2015, , 1575-1604. | | 33 |
| 38 | RFRP Neurons – The Doorway to Understanding Seasonal Reproduction in Mammals. <i>Frontiers in Endocrinology</i> , 2016, 7, 36. | 3.5 | 33 |
| 39 | Molecular cloning of the arylalkylamine-N-acetyltransferase and daily variations of its mRNA expression in the Syrian hamster pineal gland. <i>Molecular Brain Research</i> , 1999, 71, 87-95. | 2.3 | 31 |
| 40 | Roles of RFRP-3 in the daily and seasonal regulation of reproductive activity in female Syrian hamsters. <i>Endocrinology</i> , 2016, 158, en.2016-1689. | 2.8 | 31 |
| 41 | Sex differences in the photoperiodic regulation of RFamide related peptide (RFRP) and its receptor GPR147 in the syrian hamster. <i>Journal of Comparative Neurology</i> , 2016, 524, 1825-1838. | 1.6 | 31 |
| 42 | Mechanisms regulating the marked seasonal variation in melatonin synthesis in the European hamster pineal gland. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 284, R1043-R1052. | 1.8 | 30 |
| 43 | Gene expression profiling during hibernation in the European hamster. <i>Scientific Reports</i> , 2018, 8, 13167. | 3.3 | 30 |
| 44 | Pineal arylalkylamine N-acetyltransferase gene expression is highly stimulated at night in the diurnal rodent, <i>Arvicantha ansorgei</i> . <i>European Journal of Neuroscience</i> , 2002, 15, 1632-1640. | 2.6 | 28 |
| 45 | Tryptophan hydroxylase is modulated by L-type calcium channels in the rat pineal gland. <i>Life Sciences</i> , 2008, 82, 529-535. | 4.3 | 28 |
| 46 | Ontogenesis of hydroxyindole-O-methyltransferase gene expression and activity in the rat pineal gland. <i>Developmental Brain Research</i> , 1998, 110, 235-239. | 1.7 | 26 |
| 47 | Kiss1: A Likely Candidate for the Photoperiodic Control of Reproduction in Seasonal Breeders. <i>Chronobiology International</i> , 2006, 23, 277-287. | 2.0 | 25 |
| 48 | Rat And Syrian Hamster: Two Models for The Regulation of AANAT Gene Expression. <i>Chronobiology International</i> , 2006, 23, 351-359. | 2.0 | 25 |
| 49 | Daily rhythms count for female fertility. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2017, 31, 505-519. | 4.7 | 23 |
| 50 | Downregulation of Deiodinase 3 is the earliest event in photoperiodic and photorefractory activation of the gonadotropic axis in seasonal hamsters. <i>Scientific Reports</i> , 2017, 7, 17739. | 3.3 | 23 |
| 51 | Melatonin-independent Photoperiodic Entrainment of the Circannual TSH Rhythm in the Pars Tuberalis of the European Hamster. <i>Journal of Biological Rhythms</i> , 2018, 33, 302-317. | 2.6 | 22 |
| 52 | A kiss for daily and seasonal reproduction. <i>Progress in Brain Research</i> , 2012, 199, 423-437. | 1.4 | 21 |
| 53 | Photoneural Regulation of Rat Pineal Hydroxyindole-O-Methyltransferase (HIOMT) Messenger Ribonucleic Acid Expression: An Analysis of Its Complex Relationship with HIOMT Activity. <i>Endocrinology</i> , 1999, 140, 1375-1384. | 2.8 | 21 |
| 54 | Transcription Factors May Frame Aa-nat Gene Expression and Melatonin Synthesis at Night in the Syrian Hamster Pineal Gland. <i>Endocrinology</i> , 2003, 144, 2461-2472. | 2.8 | 20 |

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|----|--|-----|-----------|
| 55 | Coordinated seasonal regulation of metabolic and reproductive hypothalamic peptides in the desert jerboa. <i>Journal of Comparative Neurology</i> , 2016, 524, 3717-3728. | 1.6 | 19 |
| 56 | Possible involvement of neuropeptide Y in the seasonal control of hydroxyindole-O-methyltransferase activity in the pineal gland of the European hamster (<i>Cricetus</i>). <i>Journal of Neuroendocrinology</i> , 2007, 39, 101-108. | 1.4 | 10 |
| 57 | RF313, an orally bioavailable neuropeptide FF receptor antagonist, opposes effects of RF-amide-related peptide-3 and opioid-induced hyperalgesia in rodents. <i>Neuropharmacology</i> , 2017, 118, 188-198. | 4.1 | 18 |
| 58 | Distribution of hydroxyindole-O-methyltransferase mRNA in the rat brain: an in situ hybridisation study. <i>Cell and Tissue Research</i> , 1998, 291, 415-421. | 2.9 | 17 |
| 59 | Endogenous rhythmicity of <i>Bmal1</i> and <i>Rev-erbα</i> in the hamster pineal gland is not driven by norepinephrine. <i>European Journal of Neuroscience</i> , 2009, 29, 2009-2016. | 2.6 | 17 |
| 60 | Naughty Melatonin: How Mothers Tick Off their Fetus. <i>Endocrinology</i> , 2011, 152, 1734-1738. | 2.8 | 17 |
| 61 | A Noradrenergic Sensitive Endogenous Clock Is Present in the Rat Pineal Gland. <i>Neuroendocrinology</i> , 2011, 94, 75-83. | 2.5 | 17 |
| 62 | Kisspeptin and <i>RFRP3</i> modulate body mass in <i>Phodopus sungorus</i> via two different neuroendocrine pathways. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12710. | 2.6 | 17 |
| 63 | Impact of Circadian Disruption on Female Mice Reproductive Function. <i>Endocrinology</i> , 2020, 161, . | 2.8 | 17 |
| 64 | Long-term daily melatonin infusion induces a large increase in N-acetyltransferase activity, hydroxyindole-O-methyltransferase activity, and melatonin content in the Harderian gland and eye of pinealectomized male Siberian hamsters (<i>Phodopus sungorus</i>). <i>Journal of Pineal Research</i> , 2000, 29, 65-73. | 7.4 | 14 |
| 65 | The role of kisspeptin and RFRP in the circadian control of female reproduction. <i>Molecular and Cellular Endocrinology</i> , 2016, 438, 89-99. | 3.2 | 14 |
| 66 | Environmental disruption of reproductive rhythms. <i>Frontiers in Neuroendocrinology</i> , 2022, 66, 100990. | 5.2 | 14 |
| 67 | RFRP neurons are critical gatekeepers for the photoperiodic control of reproduction. <i>Frontiers in Endocrinology</i> , 2012, 3, 168. | 3.5 | 13 |
| 68 | <i>GnRH</i> and the photoperiodic control of seasonal reproduction: Delegating the task to kisspeptin and <i>RFRP</i> . <i>Journal of Neuroendocrinology</i> , 2022, 34, e13124. | 2.6 | 13 |
| 69 | Vasopressin potentiation of the melatonin synthetic pathway via specific V1a receptors in the rat pineal gland. <i>Regulatory Peptides</i> , 1996, 61, 63-69. | 1.9 | 12 |
| 70 | Differential Expression of Activator Protein-1 Proteins in the Pineal Gland of Syrian Hamster and Rat May Explain Species Diversity in Arylalkylamine N-Acetyltransferase Gene Expression. <i>Endocrinology</i> , 2006, 147, 5052-5060. | 2.8 | 12 |
| 71 | Nycthemeral expression of tryptophan hydroxylase mRNAs in the rat pineal gland. <i>Molecular Brain Research</i> , 1996, 40, 136-138. | 2.3 | 11 |
| 72 | Secretoneurin: a new neuropeptide in the rodent pineal gland. <i>Cell and Tissue Research</i> , 1997, 288, 427-434. | 2.9 | 11 |

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|----|---|-----|-----------|
| 73 | Expression and regulation of Icer mRNA in the Syrian hamster pineal gland. <i>Molecular Brain Research</i> , 2003, 112, 163-169. | 2.3 | 11 |
| 74 | Thyroid hormone receptors are required for the melatonin-dependent control of <i>Rfrp</i> gene expression in mice. <i>FASEB Journal</i> , 2020, 34, 12072-12082. | 0.5 | 11 |
| 75 | Role of central kisspeptin and RFRP-3 in energy metabolism in the male Wistar rat. <i>Journal of Neuroendocrinology</i> , 2021, 33, e12973. | 2.6 | 11 |
| 76 | Pineal melatonin synthesis and release are not altered throughout the estrous cycle in female rats. <i>Journal of Pineal Research</i> , 2003, 34, 53-59. | 7.4 | 10 |
| 77 | Daily <i>nat</i> Gene Expression in the Camel (<i>Camelus dromedarius</i>) Pineal Gland. <i>Chronobiology International</i> , 2008, 25, 800-807. | 2.0 | 10 |
| 78 | Neuroendocrine pathways driving daily rhythms in the hypothalamic pituitary gonadal axis of female rodents. <i>Current Opinion in Physiology</i> , 2018, 5, 99-108. | 1.8 | 9 |
| 79 | Peptidergic Modulation of Serotonin Release from Cultured Rat Pinealocytes. <i>Journal of Neuroendocrinology</i> , 1997, 9, 537-543. | 2.6 | 8 |
| 80 | The Daily Melatonin Pattern in Djungarian Hamsters Depends on the Circadian Phenotype. <i>Chronobiology International</i> , 2011, 28, 873-882. | 2.0 | 8 |
| 81 | Hamster Melatonin Receptors: Cloning and Binding Characterization of MT1 and Attempt to Clone MT2. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1957. | 4.1 | 8 |
| 82 | Individual evaluation of luteinizing hormone in aged C57BL/6J female mice. <i>GeroScience</i> , 2020, 42, 323-331. | 4.6 | 8 |
| 83 | Photoperiodic regulation in a wild-derived mouse strain. <i>Journal of Experimental Biology</i> , 2020, 223, . | 1.7 | 8 |
| 84 | Daily and Estral Regulation of RFRP-3 Neurons in the Female Mice. <i>Journal of Circadian Rhythms</i> , 2021, 19, 4. | 1.3 | 8 |
| 85 | Development of Dipeptidic <i>h</i> -GPR54 Agonists. <i>ChemMedChem</i> , 2016, 11, 2147-2154. | 3.2 | 6 |
| 86 | The dromedary camel displays annual variation in hypothalamic kisspeptin and Arg-Phe-amide-related peptide according to sex, season, and breeding activity. <i>Journal of Comparative Neurology</i> , 2020, 528, 36-51. | 1.6 | 5 |
| 87 | RFRP3 increases food intake in a sex-dependent manner in the seasonal hamster <i>Phodopus sungorus</i> . <i>Journal of Neuroendocrinology</i> , 2020, 32, e12845. | 2.6 | 5 |
| 88 | Identification of an <i>N</i> -acylated- ^D Arg-Leu-NH ₂ Dipeptide as a Highly Selective Neuropeptide FF1 Receptor Antagonist That Potently Prevents Opioid-Induced Hyperalgesia. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7555-7564. | 6.4 | 4 |
| 89 | The localisation of kisspeptin in the rodent brain. <i>Frontiers in Neuroendocrinology</i> , 2006, 27, 63-64. | 5.2 | 2 |
| 90 | Age-dependent change of RFRP-3 neuron numbers and innervation in female mice. <i>Neuropeptides</i> , 2022, 92, 102224. | 2.2 | 2 |

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|----|--|-----|-----------|
| 91 | Hydroxyindole-O-methyltransferase, a Season-coding Enzyme for Melatonin Synthesis in the Pineal Gland of Rodents. <i>Biological Rhythm Research</i> , 2002, 33, 401-416. | 0.9 | 1 |
| 92 | A refined method to monitor arousal from hibernation in the European hamster. <i>BMC Veterinary Research</i> , 2021, 17, 14. | 1.9 | 1 |