Sandrine S Bertrand

List of Publications by Year
in descending order

39 papers	1,136 citations	430754 18 h-index	395590 33 g-index
40 all docs	40 docs citations	40 times ranked	1197 citing authors

#	Article	IF	Citations
1	Î³-Aminobutyric Acid Type B Receptors with Specific Heterodimer Composition and Postsynaptic Actions in Hippocampal Neurons Are Targets of Anticonvulsant Gabapentin Action. Molecular Pharmacology, 2001, 59, 144-152.	1.0	141
2	Dynamic balance of metabotropic inputs causes dorsal horn neurons to switch functional states. Nature Neuroscience, 2003, 6, 274-281.	7.1	129
3	Knockdown of L Calcium Channel Subtypes: Differential Effects in Neuropathic Pain. Journal of Neuroscience, 2010, 30, 1073-1085.	1.7	97
4	GABA B Receptorâ€•and Metabotropic Glutamate Receptorâ€Dependent Cooperative Longâ€Term Potentiation of Rat Hippocampal GABA A Synaptic Transmission. Journal of Physiology, 2003, 553, 155-167.	1.3	75
5	Postinhibitory Rebound During Locomotor-Like Activity in Neonatal Rat Motoneurons In Vitro. Journal of Neurophysiology, 1998, 79, 342-351.	0.9	68
6	Coupling between lumbar and sacral motor networks in the neonatal rat spinal cord. European Journal of Neuroscience, 2000, 12, 2993-3002.	1.2	59
7	Gabapentin actions on Kir3 currents and N-type Ca2+ channels via GABAB receptors in hippocampal pyramidal cells. Synapse, 2003, 50, 95-109.	0.6	49
8	The respective contribution of lumbar segments to the generation of locomotion in the isolated spinal cord of newborn rat. European Journal of Neuroscience, 2002, 16, 1741-1750.	1.2	39
9	Ubiquity of motor networks in the spinal cord of vertebrates. Brain Research Bulletin, 2000, 53, 627-634.	1.4	36
10	Age-Related Changes in Pre- and Postsynaptic Partners of the Cholinergic C-Boutons in Wild-Type and SOD1G93A Lumbar Motoneurons. PLoS ONE, 2015, 10, e0135525.	1.1	33
11	Increased surface P2X4 receptor regulates anxiety and memory in P2X4 internalization-defective knock-in mice. Molecular Psychiatry, 2021, 26, 629-644.	4.1	32
12	Gabaergic Control of Spinal Locomotor Networks in the Neonatal Rat. Annals of the New York Academy of Sciences, 1998, 860, 168-180.	1.8	31
13	Presynaptic GABAergic control of the locomotor drive in the isolated spinal cord of neonatal rats. European Journal of Neuroscience, 1999, 11, 583-592.	1.2	31
14	Unitary synaptic currents between lacunosumâ€moleculare interneurones and pyramidal cells in rat hippocampus. Journal of Physiology, 2001, 532, 369-384.	1.3	31
15	Cholinergic partition cells and lamina X neurons induce a muscarinic-dependent short-term potentiation of commissural glutamatergic inputs in lumbar motoneurons. Frontiers in Neural Circuits, 2011, 5, 15.	1.4	30
16	Noradrenergic modulation of intrinsic and synaptic properties of lumbar motoneurons in the neonatal rat spinal cord. Frontiers in Neural Circuits, 2010, 4, 4.	1.4	28
17	Plateau potentials and membrane oscillations in parasympathetic preganglionic neurones and intermediolateral neurones in the rat lumbosacral spinal cord. Journal of Physiology, 2005, 563, 583-596.	1.3	23
18	Interplay between neuromodulatorâ€induced switching of shortâ€term plasticity at sensorimotor synapses in the neonatal rat spinal cord. Journal of Physiology, 2008, 586, 1903-1920.	1.3	23

#	Article	IF	Citations
19	Origin of Thoracic Spinal Network Activity during Locomotor-Like Activity in the Neonatal Rat. Journal of Neuroscience, 2015, 35, 6117-6130.	1.7	20
20	Peptidergic neuromodulation of the lumbar locomotor network in the neonatal rat spinal cord. Peptides, 2005, 26, 277-286.	1.2	16
21	Different actions of Gabapentin and baclofen in hippocampus from weaver mice. Hippocampus, 2003, 13, 525-528.	0.9	14
22	Expression of GABAA receptor Î±3-, Î¸-, and Îµ-subunit mRNAs during rat CNS development and immunolocalization of the Îµ subunit in developing postnatal spinal cord. Neuroscience, 2009, 160, 85-96.	1.1	14
23	Monoaminergic control of spinal locomotor networks in SOD1G93A newborn mice. Frontiers in Neural Circuits, 2014, 8, 77.	1.4	14
24	Activity-dependent Synaptic Plasticity and Metaplasticity in Spinal Motor Networks. Current Pharmaceutical Design, 2013, 19, 4498-4508.	0.9	14
25	3-D motion capture for long-term tracking of spontaneous locomotor behaviors and circadian sleep/wake rhythms in mouse. Journal of Neuroscience Methods, 2018, 295, 51-57.	1.3	13
26	Multiple monoaminergic modulation of posturo-locomotor network activity in the newborn rat spinal cord. Frontiers in Neural Circuits, 2014, 8, 99.	1.4	11
27	N- and P/Q-type Ca2+ channels are involved in neurotransmitter release but not in synaptic depression in the spinal cord of the neonatal rat. Neuroscience Letters, 2000, 295, 29-32.	1.0	10
28	Locomotion and dynamic posture: neuro-evolutionary basis of bipedal gait. Neurophysiologie Clinique, 2020, 50, 467-477.	1.0	10
29	Acetylcholine and spinal locomotor networks: The insider. Physiological Reports, 2021, 9, e14736.	0.7	10
30	Cholinergic-mediated coordination of rhythmic sympathetic and motor activities in the newborn rat spinal cord. PLoS Biology, 2018, 16, e2005460.	2.6	8
31	Increased surface P2X4 receptors by mutant SOD1 proteins contribute to ALS pathogenesis in SOD1-G93A mice. Cellular and Molecular Life Sciences, 2022, 79, .	2.4	8
32	Regulation by glycine, Mg2+ and polyamines of the N-methyl-d-aspartate-induced locomotion in the neonatal rat spinal cord in vitro. Neuroscience, 1999, 94, 1199-1206.	1.1	6
33	GABAA and GABAB Modulations of Synaptic Transmission between L1-L2 Locomotor Network and the Motoneurons in the Newborn Rat Isolated Spinal Cord. Annals of the New York Academy of Sciences, 1998, 860, 470-471.	1.8	4
34	Activity-dependent synaptic dynamics in motor circuits of the spinal cord. Current Opinion in Physiology, 2019, 8, 44-49.	0.9	3
35	Impact of acute and chronic nicotine administration on midbrain dopaminergic neuron activity and related behaviours in TRPV1 knockâ€out juvenile mice. European Journal of Neuroscience, 2022, 55, 697-713.	1.2	3
36	Distinct and developmentally regulated activity-dependent plasticity at descending glutamatergic synapses on flexor and extensor motoneurons. Scientific Reports, 2016, 6, 28522.	1.6	2

#	Article	IF	Citations
37	A new class of radiopeptides for PET imaging of neuromedin-B receptor: 68Ga-ranatensin analogs. MedChemComm, 2016, 7, 1217-1223.	3.5	1
38	Corrigendum to â€œN- and P/Q-type Ca2+ channels are involved in neurotransmitter release but not in synaptic depression in the spinal cord of the neonatal ratâ€•[Neurosci. Lett. 295 (2000) 29â€“32]. Neuroscience Letters, 2001, 302, 161.	1.0	0
39	Developmentally Regulated Modulation of Lumbar Motoneurons by Metabotropic Glutamate Receptors: A Cellular and Behavioral Analysis in Newborn Mice. Frontiers in Cellular Neuroscience, 2021, 15, 770250.	1.8	0