

Ernesto Fedele

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92
papers

2,883
citations

33
h-index

50
g-index

96
ext. papers

3,200
ext. citations

5.5
avg, IF

4.91
L-index

#	Paper	IF	Citations
92	The Amyloid Cascade Hypothesis in Alzheimer's Disease: It's Time to Change Our Mind. <i>Current Neuropharmacology</i> , 2017 , 15, 926-935	7.6	151
91	In vivo studies of the cerebral glutamate receptor/NO/cGMP pathway. <i>Progress in Neurobiology</i> , 1999 , 58, 89-120	10.9	141
90	Helicobacter pylori eradication and l-dopa absorption in patients with PD and motor fluctuations. <i>Neurology</i> , 2006 , 66, 1824-9	6.5	131
89	GEBR-7b, a novel PDE4D selective inhibitor that improves memory in rodents at non-emetic doses. <i>British Journal of Pharmacology</i> , 2011 , 164, 2054-63	8.6	107
88	Evidence of a role for cyclic ADP-ribose in calcium signalling and neurotransmitter release in cultured astrocytes. <i>Journal of Neurochemistry</i> , 2001 , 78, 646-57	6	106
87	Cyclo-oxygenase-1 and -2 differently contribute to prostaglandin E2 synthesis and lipid peroxidation after in vivo activation of N-methyl-D-aspartate receptors in rat hippocampus. <i>Journal of Neurochemistry</i> , 2005 , 93, 1561-7	6	105
86	Subthalamic stimulation activates internal pallidus: evidence from cGMP microdialysis in PD patients. <i>Annals of Neurology</i> , 2005 , 57, 448-52	9.4	104
85	Biochemical and electrophysiological changes of substantia nigra pars reticulata driven by subthalamic stimulation in patients with Parkinson's disease. <i>European Journal of Neuroscience</i> , 2006 , 23, 2923-8	3.5	95
84	Improvement of spatial memory function in APPswe/PS1dE9 mice after chronic inhibition of phosphodiesterase type 4D. <i>Neuropharmacology</i> , 2014 , 77, 120-30	5.5	83
83	Acetylcholine release from rat hippocampal slices is modulated by 5-hydroxytryptamine. <i>European Journal of Pharmacology</i> , 1989 , 165, 173-9	5.3	71
82	Nicotine administration stimulates the in vivo N-methyl-D-aspartate receptor/nitric oxide/cyclic GMP pathway in rat hippocampus through glutamate release. <i>British Journal of Pharmacology</i> , 1998 , 125, 1042-8	8.6	68
81	In vivo microdialysis study of a specific inhibitor of soluble guanylyl cyclase on the glutamate receptor/nitric oxide/cyclic GMP pathway. <i>British Journal of Pharmacology</i> , 1996 , 119, 590-4	8.6	66
80	In vivo activation of N-methyl-D-aspartate receptors in the rat hippocampus increases prostaglandin E(2) extracellular levels and triggers lipid peroxidation through cyclooxygenase-mediated mechanisms. <i>Journal of Neurochemistry</i> , 2002 , 81, 1028-34	6	65
79	LRRK2 kinase activity regulates synaptic vesicle trafficking and neurotransmitter release through modulation of LRRK2 macro-molecular complex. <i>Frontiers in Molecular Neuroscience</i> , 2014 , 7, 49	6.1	64
78	Reduced L-dopa absorption and increased clinical fluctuations in Helicobacter pylori-infected Parkinson's disease patients. <i>Neurological Sciences</i> , 2001 , 22, 89-91	3.5	60
77	Ectocellular in vitro and in vivo metabolism of cADP-ribose in cerebellum. <i>Biochemical Journal</i> , 1996 , 320, 665-671	3.8	52
76	Age-related decrease of the NMDA receptor-mediated noradrenaline release in rat hippocampus and partial restoration by D-cycloserine. <i>European Journal of Pharmacology</i> , 1993 , 231, 129-34	5.3	51

75	Electrophysiology and pharmacology of striatal neuronal dysfunction induced by mitochondrial complex I inhibition. <i>Journal of Neuroscience</i> , 2008 , 28, 8040-52	6.6	46
74	Correlation between changes in CSF dopamine turnover and development of dyskinesia in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2009 , 15, 383-9	3.6	44
73	Mechanisms of glutamate release elicited in rat cerebrocortical nerve endings by 'pathologically' elevated extraterminal K ⁺ concentrations. <i>Journal of Neurochemistry</i> , 2007 , 103, 952-61	6	44
72	L-aspartate as an amino acid neurotransmitter: mechanisms of the depolarization-induced release from cerebrocortical synaptosomes. <i>Journal of Neurochemistry</i> , 2009 , 110, 924-34	6	42
71	Memory-enhancing effects of GEBR-32a, a new PDE4D inhibitor holding promise for the treatment of Alzheimer's disease. <i>Scientific Reports</i> , 2017 , 7, 46320	4.9	41
70	Glutamate-mediated overexpression of CD38 in astrocytes cultured with neurones. <i>Journal of Neurochemistry</i> , 2004 , 89, 264-72	6	41
69	Glutamic acid and gamma-aminobutyric acid modulate each other's release through heterocarriers sited on the axon terminals of rat brain. <i>Journal of Neurochemistry</i> , 1993 , 61, 222-30	6	39
68	Amyloid- β Peptide Is Needed for cGMP-Induced Long-Term Potentiation and Memory. <i>Journal of Neuroscience</i> , 2017 , 37, 6926-6937	6.6	38
67	The NOS/sGC pathway in the rat central nervous system: a microdialysis overview. <i>Neurochemistry International</i> , 2004 , 45, 787-97	4.4	37
66	Microdialysis in Parkinsonian patient basal ganglia: acute apomorphine-induced clinical and electrophysiological effects not paralleled by changes in the release of neuroactive amino acids. <i>Experimental Neurology</i> , 2001 , 167, 356-65	5.7	37
65	The pharmacological blockade of medial forebrain bundle induces an acute pathological synchronization of the cortico-subthalamic nucleus-globus pallidus pathway. <i>Journal of Physiology</i> , 2009 , 587, 4405-23	3.9	36
64	Pre-synaptic nicotinic receptors evoke endogenous glutamate and aspartate release from hippocampal synaptosomes by way of distinct coupling mechanisms. <i>British Journal of Pharmacology</i> , 2010 , 161, 1161-71	8.6	35
63	Helicobacter pylori-induced reduction of acute levodopa absorption in Parkinson's disease patients. <i>Annals of Neurology</i> , 2001 , 50, 686-7	9.4	35
62	Transmitter release associated with long-term synaptic depression in rat corticostriatal slices. <i>European Journal of Neuroscience</i> , 1995 , 7, 1889-94	3.5	35
61	Benzodiazepine-sensitive GABA(A) receptors limit the activity of the NMDA/NO/cyclic GMP pathway: a microdialysis study in the cerebellum of freely moving rats. <i>Journal of Neurochemistry</i> , 2000 , 75, 782-7	6	33
60	Glycine stimulates [³ H]noradrenaline release by activating a strychnine-sensitive receptor present in rat hippocampus. <i>European Journal of Pharmacology</i> , 1990 , 184, 239-50	5.3	33
59	Desensitization of AMPA receptors and AMPA-NMDA receptor interaction: an in vivo cyclic GMP microdialysis study in rat cerebellum. <i>British Journal of Pharmacology</i> , 1996 , 117, 1133-8	8.6	32
58	[³ H]glycine uptake in rat hippocampus: kinetic analysis and autoradiographic localization. <i>Brain Research</i> , 1992 , 572, 154-63	3.7	32

57	An evaluation of the role of extracellular amino acids in the delayed neurodegeneration induced by quinolinic acid in the rat striatum. <i>Neuroscience</i> , 1993 , 52, 911-7	3.9	30
56	In vivo microdialysis study of GABA(A) and GABA(B) receptors modulating the glutamate receptor/NO/cyclic GMP pathway in the rat hippocampus. <i>Neuropharmacology</i> , 1997 , 36, 1405-15	5.5	29
55	cAMP, cGMP and Amyloid β Three Ideal Partners for Memory Formation. <i>Trends in Neurosciences</i> , 2018 , 41, 255-266	13.3	28
54	New insights into selective PDE4D inhibitors: 3-(Cyclopentyloxy)-4-methoxybenzaldehyde O-(2-(2,6-dimethylmorpholino)-2-oxoethyl) oxime (GEBR-7b) structural development and promising activities to restore memory impairment. <i>European Journal of Medicinal Chemistry</i> , 2016 , 124, 82-102	6.8	27
53	Reduced GABA Content in the Motor Thalamus during Effective Deep Brain Stimulation of the Subthalamic Nucleus. <i>Frontiers in Systems Neuroscience</i> , 2011 , 5, 17	3.5	25
52	GABA(A), but not NMDA, receptors modulate in vivo NO-mediated cGMP synthesis in the rat cerebral cortex. <i>Neuropharmacology</i> , 2004 , 46, 480-9	5.5	25
51	Homovanillic acid in CSF of mild stage Parkinson's disease patients correlates with motor impairment. <i>Neurochemistry International</i> , 2017 , 105, 58-63	4.4	24
50	In vivo effects of phosphodiesterase inhibition on basal cyclic guanosine monophosphate levels in the prefrontal cortex, hippocampus and cerebellum of freely moving rats. <i>Journal of Neuroscience Research</i> , 2008 , 86, 3338-47	4.4	24
49	Presynaptic nicotinic α and non- α receptors stimulate endogenous GABA release from rat hippocampal synaptosomes through two mechanisms of action. <i>PLoS ONE</i> , 2011 , 6, e16911	3.7	23
48	The glutamate receptor/NO/cyclic GMP pathway in the hippocampus of freely moving rats: modulation by cyclothiazide, interaction with GABA and the behavioural consequences. <i>Neuropharmacology</i> , 1997 , 36, 1393-403	5.5	22
47	A novel mechanism for cyclic adenosine monophosphate-mediated memory formation: Role of amyloid beta. <i>Annals of Neurology</i> , 2014 , 75, 602-7	9.4	21
46	Phosphodiesterase 4D: an enzyme to remember. <i>British Journal of Pharmacology</i> , 2015 , 172, 4785-9	8.6	20
45	The clinical efficacy of L-DOPA and STN-DBS share a common marker: reduced GABA content in the motor thalamus. <i>Cell Death and Disease</i> , 2011 , 2, e154	9.8	20
44	Presynaptic mechanisms underlying the gamma-aminobutyric acid-evoked receptor-independent release of [³ H]norepinephrine in rat hippocampus. <i>Journal of Neurochemistry</i> , 1989 , 52, 1854-8	6	20
43	D-serine modulates the NMDA receptor/nitric oxide/cGMP pathway in the rat cerebellum during in vivo microdialysis. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997 , 355, 43-7	3.4	19
42	Amyloid β Walking on the dark side of the moon. <i>Mechanisms of Ageing and Development</i> , 2015 , 152, 1-4	5.6	18
41	Presynaptic GLP-1 receptors enhance the depolarization-evoked release of glutamate and GABA in the mouse cortex and hippocampus. <i>BioFactors</i> , 2018 , 44, 148-157	6.1	16
40	Synthesis, biological evaluation, and molecular modeling of new 3-(cyclopentyloxy)-4-methoxybenzaldehyde O-(2-(2,6-dimethylmorpholino)-2-oxoethyl) Oxime (GEBR-7b) related phosphodiesterase 4D (PDE4D) inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 7061-72	8.3	16

39	Cholinergic modulation of [3H]dopamine release from dendrosomes of rat substantia nigra. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1991 , 344, 275-80	3.4	16
38	In vivo NO/cGMP signalling in the hippocampus. <i>Neurochemical Research</i> , 2001 , 26, 1069-78	4.6	15
37	Antagonizing α 7 nicotinic receptors with methyllycaconitine (MLA) potentiates receptor activity and memory acquisition. <i>Cellular Signalling</i> , 2019 , 62, 109338	4.9	14
36	Cyclic adenosine monophosphate as an endogenous modulator of the amyloid- β precursor protein metabolism. <i>IUBMB Life</i> , 2013 , 65, 127-33	4.7	14
35	Effects of phosphodiesterase inhibition on cortical spreading depression and associated changes in extracellular cyclic GMP. <i>Biochemical Pharmacology</i> , 2004 , 67, 1619-27	6	14
34	Exocytosis regulates trafficking of GABA and glycine heterotransporters in spinal cord glutamatergic synapses: a mechanism for the excessive heterotransporter-induced release of glutamate in experimental amyotrophic lateral sclerosis. <i>Neurobiology of Disease</i> , 2015 , 74, 314-24	7.5	13
33	Heterocarrier-mediated reciprocal modulation of glutamate and glycine release in rat cerebral cortex and spinal cord synaptosomes. <i>European Journal of Pharmacology</i> , 1994 , 252, 61-7	5.3	13
32	Release-regulating dopamine autoreceptors in human cerebral cortex. <i>British Journal of Pharmacology</i> , 1993 , 110, 20-2	8.6	12
31	Leucine-rich repeat kinase 2 phosphorylation on synapsin I regulates glutamate release at pre-synaptic sites. <i>Journal of Neurochemistry</i> , 2019 , 150, 264-281	6	11
30	Native human neocortex release-regulating dopamine D2 type autoreceptors are dopamine D2 subtype. <i>European Journal of Neuroscience</i> , 1999 , 11, 2351-8	3.5	11
29	Functional damage of dopamine nerve terminals following intrastriatal kainic acid injection. <i>Brain Research</i> , 1989 , 480, 242-8	3.7	11
28	Synthesis, biological activities and pharmacokinetic properties of new fluorinated derivatives of selective PDE4D inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3426-35	3.4	10
27	Alterations of glutamate release in the spinal cord of mice with experimental autoimmune encephalomyelitis. <i>Journal of Neurochemistry</i> , 2010 , 115, 343-52	6	10
26	The Novel Phosphodiesterase 9A Inhibitor BI 409306 Increases Cyclic Guanosine Monophosphate Levels in the Brain, Promotes Synaptic Plasticity, and Enhances Memory Function in Rodents. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019 , 371, 633-641	4.7	10
25	Enhanced Function and Overexpression of Metabotropic Glutamate Receptors 1 and 5 in the Spinal Cord of the SOD1 Mouse Model of Amyotrophic Lateral Sclerosis during Disease Progression. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	9
24	PDE4D inhibitors: a potential strategy for the treatment of memory impairment?. <i>Neuropharmacology</i> , 2014 , 85, 290-2	5.5	9
23	Delayed administration may improve entacapone effects in parkinsonian patients non-responding to the drug. <i>European Journal of Neurology</i> , 2004 , 11, 593-606	6	8
22	Intracerebral administration of L-kynurenine decreases N-methyl-D-aspartate receptor-mediated production of cGMP in the cerebellum and hippocampus of unanaesthetized rats subjected to transcerebral microdialysis. <i>Neuroscience Letters</i> , 1999 , 266, 81-4	3.3	7

21	Altered fronto-striatal functions in the Gdi1-null mouse model of X-linked Intellectual Disability. <i>Neuroscience</i> , 2017 , 344, 346-359	3.9	6
20	Activation of brain nitric oxide synthase in depolarized human temporal cortex slices: differential role of voltage-sensitive calcium channels. <i>British Journal of Pharmacology</i> , 1997 , 122, 930-4	8.6	6
19	Autoradiographical evaluation of [3H]glycine uptake in rat forebrain: cellular localization in the hippocampus. <i>Neuroscience Letters</i> , 1993 , 161, 4-8	3.3	6
18	Nearly 30 Years of Animal Models to Study Amyotrophic Lateral Sclerosis: A Historical Overview and Future Perspectives. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	6
17	Dopamine release and dopaminergic inhibition of acetylcholine release in rat striatal slices after nigro-striatal hemitransection and parenteral ganglioside administration. <i>European Journal of Pharmacology</i> , 1992 , 213, 17-24	5.3	5
16	Neuropeptide S inhibits release of 5-HT and glycine in mouse amygdala and frontal/prefrontal cortex through activation of the neuropeptide S receptor. <i>Neurochemistry International</i> , 2013 , 62, 360-6	4.4	4
15	Investigating the amyloid-beta enhancing effect of cGMP in neuro2a cells. <i>Mechanisms of Ageing and Development</i> , 2017 , 166, 1-5	5.6	4
14	Evaluating the role of hnRNP-C and FMRP in the cAMP-induced APP metabolism. <i>BioFactors</i> , 2015 , 41, 121-6	6.1	4
13	Evaluation of the mechanisms underlying the kainate-induced impairment of [3H]dopamine release in the rat striatum. <i>European Journal of Pharmacology</i> , 1993 , 249, 71-7	5.3	4
12	Glycine enhances [3H]noradrenaline release from slices of rat hippocampus. <i>Neuroscience Letters</i> , 1990 , 116, 352-6	3.3	4
11	Acute and Chronic Dopaminergic Depletion Differently Affect Motor Thalamic Function. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
10	Temporal administration of entacapone with slow release L-dopa: pharmacokinetic profile and clinical outcome. <i>Neurological Sciences</i> , 2004 , 25, 53-6	3.5	3
9	Memory Enhancers for Alzheimer's Dementia: Focus on cGMP. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	3
8	Isolation of hydroxyoctaprenyl-1',4'-hydroquinone, a new octaprenylhydroquinone from the marine sponge <i>Sarcotragus spinosulus</i> and evaluation of its pharmacological activity on acetylcholine and glutamate release in the rat central nervous system. <i>Natural Product Communications</i> , 2014 , 9, 1581-4	0.9	3
7	Re: Stereotactic microdialysis of the basal ganglia in Parkinson's disease. <i>Journal of Neuroscience Methods</i> , 2013 , 212, 362	3	2
6	Isolation of Hydroxyoctaprenyl-1',4'-hydroquinone, a new Octaprenylhydroquinone from the Marine Sponge <i>Sarcotragus spinosulus</i> and Evaluation of its Pharmacological Activity on Acetylcholine and Glutamate Release in the Rat Central Nervous System. <i>Natural Product Communications</i> , 2014 , 9, 1934578X1400901	0.9	2
5	cGMP favors the interaction between APP and BACE1 by inhibiting Rab5 GTPase activity. <i>Scientific Reports</i> , 2020 , 10, 1358	4.9	1
4	Protein kinase G phosphorylates the Alzheimer's disease-associated tau protein at distinct Ser/Thr sites. <i>BioFactors</i> , 2021 , 47, 126-134	6.1	0

- 3 Biochemical Markers of DBS-Induced Transition from Off to On State in Parkinsonian Patients
2005, 397-406
- 2 Dbs in Parkinsonian Subthalamic Nucleus: Electrophysiological and Biochemical Changes. *Advances in Behavioral Biology*, **2002**, 3-12
- 1 Stimulation of the amyloid- β precursor protein metabolism by cAMP. *FASEB Journal*, **2013**, 27, 873.18 0.9