Istvan Mody

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123 papers	15,487 citations	63 h-index	124 g-index
125 ext. papers	17,131 ext. citations	10 avg, IF	6.75 L-index

#	Paper	IF	Citations
123	Mossy Cells in the Dorsal and Ventral Dentate Gyrus Differ in Their Patterns of Axonal Projections. *Journal of Neuroscience*, **2021**, 41, 991-1004	6.6	8
122	Identification of neural oscillations and epileptiform changes in human brain organoids. *Nature Neuroscience*, **2021**, 24, 1488-1500	25.5	20
121	Defining the nature of human pluripotent stem cell-derived interneurons via single-cell analysis. *Stem Cell Reports*, **2021**, 16, 2548-2564	8	1
120	Amyloid induces interneuron-specific changes in the hippocampus of APPNL-F mice. *PLoS ONE*, **2020**, 15, e0233700	3.7	2
119	GABAR Modulator for Postpartum Depression. *Cell*, **2019**, 176, 1	56.2	63
118	Preferential enhancement of GluN2B-containing native NMDA receptors by the endogenous modulator 24S-hydroxycholesterol in hippocampal neurons. *Neuropharmacology*, **2019**, 148, 11-20	5.5	13
117	Novel Quantitative Analyses of Spontaneous Synaptic Events in Cortical Pyramidal Cells Reveal Subtle Parvalbumin-Expressing Interneuron Dysfunction in a Knock-In Mouse Model of Alzheimer Disease. *ENeuro*, **2018**, 5,	3.9	7
116	Astrocyte Intermediaries of Septal Cholinergic Modulation in the Hippocampus. *Neuron*, **2016**, 90, 853-65	13.9	71
115	Diminished KCC2 confounds synapse specificity of LTP during senescence. *Nature Neuroscience*, **2016**, 19, 1197-200	25.5	32
114	WONOEP appraisal: molecular and cellular imaging in epilepsy. *Epilepsia*, **2015**, 56, 505-13	6.4	4
113	In vitro gamma oscillations following partial and complete ablation of subunit-containing GABAA receptors from parvalbumin interneurons. *Neuropharmacology*, **2015**, 88, 91-8	5.5	32
112	Evolution of temporal and spectral dynamics of pathologic high-frequency oscillations (pHFOs) during epileptogenesis. *Epilepsia*, **2015**, 56, 1879-89	6.4	17
111	N17 Modifies mutant Huntingtin nuclear pathogenesis and severity of disease in HD BAC transgenic mice. *Neuron*, **2015**, 85, 726-41	13.9	48
110	Interneuronal GABAA receptors inside and outside of synapses. *Current Opinion in Neurobiology*, **2014**, 26, 57-63	7.6	26
109	Rosiglitazone prevents the memory deficits induced by amyloid-beta oligomers via inhibition of inflammatory responses. *Neuroscience Letters*, **2014**, 578, 7-11	3.3	26
108	Novel test of motor and other dysfunctions in mouse neurological disease models. *Journal of Neuroscience Methods*, **2014**, 221, 151-8	3	5
107	Intracellular bicarbonate regulates action potential generation via KCNQ channel modulation. *Journal of Neuroscience*, **2014**, 34, 4409-17	6.6	8

106	5-HT4-receptors modulate induction of long-term depression but not potentiation at hippocampal output synapses in acute rat brain slices. *PLoS ONE*, **2014**, 9, e88085	3.7	9
105	Ovarian cycle-linked plasticity of GABAA receptor subunits in hippocampal interneurons affects oscillations in vivo. *Frontiers in Cellular Neuroscience*, **2014**, 8, 222	6.1	17
104	Astrocyte Kir4.1 ion channel deficits contribute to neuronal dysfunction in Huntington disease model mice. *Nature Neuroscience*, **2014**, 17, 694-703	25.5	356
103	Connectomics and epilepsy. *Current Opinion in Neurology*, **2013**, 26, 186-94	7.1	172
102	Altered gamma oscillations during pregnancy through loss of subunit-containing GABA(A) receptors on parvalbumin interneurons. *Frontiers in Neural Circuits*, **2013**, 7, 144	3.5	29
101	Glutamatergic input from specific sources influences the nucleus accumbens-ventral pallidum information flow. *Brain Structure and Function*, **2012**, 217, 37-48	4	32
100	Finding a better drug for epilepsy: antiepileptogenesis targets. *Epilepsia*, **2012**, 53, 1868-76	6.4	68
99	Extrasynaptic GABA(A) receptors: their function in the CNS and implications for disease. *Neuron*, **2012**, 73, 23-34	13.9	449
98	Inhibitory interneuron deficit links altered network activity and cognitive dysfunction in Alzheimer model. *Cell*, **2012**, 149, 708-21	56.2	655
97	The splicing regulator Rbfox1 (A2BP1) controls neuronal excitation in the mammalian brain. *Nature Genetics*, **2011**, 43, 706-11	36.3	242
96	Calmodulin as a direct detector of Ca2+ signals. *Nature Neuroscience*, **2011**, 14, 301-4	25.5	142
95	Changes in hippocampal neuronal activity during and after unilateral selective hippocampal ischemia in vivo. *Journal of Neuroscience*, **2011**, 31, 851-60	6.6	50
94	Deletion of astroglial Dicer causes non-cell-autonomous neuronal dysfunction and degeneration. *Journal of Neuroscience*, **2011**, 31, 8306-19	6.6	135
93	Reducing excessive GABA-mediated tonic inhibition promotes functional recovery after stroke. *Nature*, **2010**, 468, 305-9	50.4	598
92	Control of hippocampal gamma oscillation frequency by tonic inhibition and excitation of interneurons. *Nature Neuroscience*, **2010**, 13, 205-12	25.5	157
91	Selective reduction of cholecystokinin-positive basket cell innervation in a model of temporal lobe epilepsy. *Journal of Neuroscience*, **2010**, 30, 8993-9006	6.6	73
90	Introduction to the supplement. *Epilepsia*, **2010**, 51, 1-1	6.4	1
89	Plasticity of GABAA receptors relevant toneurosteroid actions. *Epilepsia*, **2010**, 51, 49-49	6.4	2

88	Excitability changes related to GABAA receptor plasticity during pregnancy. *Journal of Neuroscience*, **2009**, 29, 9592-601	6.6	97
87	Hippocampal zinc infusion delays the development of afterdischarges and seizures in a kindling model of epilepsy. *Epilepsia*, **2009**, 50, 870-9	6.4	34
86	High-frequency oscillations: what is normal and what is not?. *Epilepsia*, **2009**, 50, 598-604	6.4	362
85	Establishing a physiological environment for visualized in vitro brain slice recordings by increasing oxygen supply and modifying aCSF content. *Journal of Neuroscience Methods*, **2009**, 183, 107-13	3	92
84	"One swallow does not make a summer" ... or does it?. *Epilepsy Currents*, **2008**, 8, 73-5	1.3	
83	Extrasynaptic GABAA receptors in the crosshairs of hormones and ethanol. *Neurochemistry International*, **2008**, 52, 60-4	4.4	37
82	GABA(A)R plasticity during pregnancy: relevance to postpartum depression. *Neuron*, **2008**, 59, 207-13	13.9	279
81	Neurofibromin regulation of ERK signaling modulates GABA release and learning. *Cell*, **2008**, 135, 549-60	56.2	311
80	Which GABA(A) receptor subunits are necessary for tonic inhibition in the hippocampus?. *Journal of Neuroscience*, **2008**, 28, 1421-6	6.6	279
79	Protein kinase Cdelta regulates ethanol intoxication and enhancement of GABA-stimulated tonic current. *Journal of Neuroscience*, **2008**, 28, 11890-9	6.6	74
78	Silencing-induced metaplasticity in hippocampal cultured neurons. *Journal of Neurophysiology*, **2008**, 100, 690-7	3.2	17
77	The multifaceted role of inhibition in epilepsy: seizure-genesis through excessive GABAergic inhibition in autosomal dominant nocturnal frontal lobe epilepsy. *Current Opinion in Neurology*, **2008**, 21, 155-60	7.1	50
76	Neurosteroid synthesis-mediated regulation of GABA(A) receptors: relevance to the ovarian cycle and stress. *Journal of Neuroscience*, **2007**, 27, 2155-62	6.6	188
75	Spike timing of lacunosom-moleculare targeting interneurons and CA3 pyramidal cells during high-frequency network oscillations in vitro. *Journal of Neurophysiology*, **2007**, 98, 96-104	3.2	28
74	A new meaning for "Gin & Tonic": tonic inhibition as the target for ethanol action in the brain. *Alcohol*, **2007**, 41, 145-53	2.7	54
73	The main source of ambient GABA responsible for tonic inhibition in the mouse hippocampus. *Journal of Physiology*, **2007**, 582, 1163-78	3.9	189
72	A new naturally occurring GABA(A) receptor subunit partnership with high sensitivity to ethanol. *Nature Neuroscience*, **2007**, 10, 40-8	25.5	210
71	Bi-Fi: an embedded sensor/system architecture for REMOTE biological monitoring. *IEEE Transactions on Information Technology in Biomedicine*, **2007**, 11, 611-8		35

70	Altered localization of GABA(A) receptor subunits on dentate granule cell dendrites influences tonic and phasic inhibition in a mouse model of epilepsy. *Journal of Neuroscience*, **2007**, 27, 7520-31	6.6	181
69	Resolving the fast kinetics of cooperative binding: Ca2+ buffering by calretinin. *PLoS Biology*, **2007**, 5, e311	9.7	72
68	Activation of GABAA receptors: views from outside the synaptic cleft. *Neuron*, **2007**, 56, 763-70	13.9	265
67	A TinyOS-enabled MICA2-based wireless neural interface. *IEEE Transactions on Biomedical Engineering*, **2006**, 53, 1416-24	5	44
66	Seizures and enhanced cortical GABAergic inhibition in two mouse models of human autosomal dominant nocturnal frontal lobe epilepsy. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19152-7	11.5	172
65	Hippocampal network hyperactivity after selective reduction of tonic inhibition in GABA A receptor alpha5 subunit-deficient mice. *Journal of Neurophysiology*, **2006**, 95, 2796-807	3.2	168
64	Differences between the scaling of miniature IPSCs and EPSCs recorded in the dendrites of CA1 mouse pyramidal neurons. *Journal of Physiology*, **2006**, 576, 191-6	3.9	31
63	Pathological cell-cell interactions elicited by a neuropathogenic form of mutant Huntingtin contribute to cortical pathogenesis in HD mice. *Neuron*, **2005**, 46, 433-44	13.9	198
62	Kinetic properties of DM-nitrophen binding to calcium and magnesium. *Biophysical Journal*, **2005**, 88, 4421-33	2.9	23
61	Ovarian cycle-linked changes in GABA(A) receptors mediating tonic inhibition alter seizure susceptibility and anxiety. *Nature Neuroscience*, **2005**, 8, 797-804	25.5	487
60	A hybrid approach to measuring electrical activity in genetically specified neurons. *Nature Neuroscience*, **2005**, 8, 1619-26	25.5	147
59	Aspects of the homeostaic plasticity of GABAA receptor-mediated inhibition. *Journal of Physiology*, **2005**, 562, 37-46	3.9	114
58	GABA transporter deficiency causes tremor, ataxia, nervousness, and increased GABA-induced tonic conductance in cerebellum. *Journal of Neuroscience*, **2005**, 25, 3234-45	6.6	188
57	Protective effect of ifenprodil against spreading depression in the mouse entorhinal cortex. *Journal of Neurophysiology*, **2004**, 92, 2610-4	3.2	26
56	Low ethanol concentrations selectively augment the tonic inhibition mediated by delta subunit-containing GABAA receptors in hippocampal neurons. *Journal of Neuroscience*, **2004**, 24, 8379-82	6.6	214
55	Altered expression of the delta subunit of the GABAA receptor in a mouse model of temporal lobe epilepsy. *Journal of Neuroscience*, **2004**, 24, 8629-39	6.6	265
54	Another "tonic" in the realm of epilepsy. *Epilepsy Currents*, **2004**, 4, 248-9	1.3	3
53	High-frequency oscillations after status epilepticus: epileptogenesis and seizure genesis. *Epilepsia*, **2004**, 45, 1017-23	6.4	280

52	Diversity of inhibitory neurotransmission through GABA(A) receptors. *Trends in Neurosciences*, **2004**, 27, 569-75	13.3	409
51	Neuroactive steroids reduce neuronal excitability by selectively enhancing tonic inhibition mediated by delta subunit-containing GABAA receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14439-44	11.5	646
50	Activation of NMDA receptors in rat dentate gyrus granule cells by spontaneous and evoked transmitter release. *Journal of Neurophysiology*, **2003**, 90, 786-97	3.2	80
49	GABA transporter-1 (GAT1)-deficient mice: differential tonic activation of GABAA versus GABAB receptors in the hippocampus. *Journal of Neurophysiology*, **2003**, 90, 2690-701	3.2	191
48	Perisynaptic localization of delta subunit-containing GABA(A) receptors and their activation by GABA spillover in the mouse dentate gyrus. *Journal of Neuroscience*, **2003**, 23, 10650-61	6.6	347
47	Calcium and Autosomal Dominant Nocturnal Frontal Lobe Epilepsy (ADNFLE). *Epilepsy Currents*, **2003**, 3, 221-222	1.3	
46	A tale of timing and transport. *Neuron*, **2003**, 39, 729-30	13.9	5
45	Gamma-hydroxybutyrate reduces mitogen-activated protein kinase phosphorylation via GABA B receptor activation in mouse frontal cortex and hippocampus. *Journal of Biological Chemistry*, **2003**, 278, 42006-11	5.4	32
44	Local generation of fast ripples in epileptic brain. *Journal of Neuroscience*, **2002**, 22, 2012-21	6.6	331
43	Number, density, and surface/cytoplasmic distribution of GABA transporters at presynaptic structures of knock-in mice carrying GABA transporter subtype 1-green fluorescent protein fusions. *Journal of Neuroscience*, **2002**, 22, 10251-66	6.6	123
42	Selective modulation of tonic and phasic inhibitions in dentate gyrus granule cells. *Journal of Neurophysiology*, **2002**, 87, 2624-8	3.2	403
41	The GAD-given Right of Dentate Gyrus Granule Cells to Become GABAergic. *Epilepsy Currents*, **2002**, 2, 143-145	1.3	13
40	Kindling enhances kainate receptor-mediated depression of GABAergic inhibition in rat granule cells. *European Journal of Neuroscience*, **2002**, 16, 861-7	3.5	18
39	Receptors with different affinities mediate phasic and tonic GABA(A) conductances in hippocampal neurons. *Journal of Neuroscience*, **2002**, 22, RC223	6.6	258
38	Distinguishing between GABA(A) receptors responsible for tonic and phasic conductances. *Neurochemical Research*, **2001**, 26, 907-13	4.6	203
37	L-type Ca2+ channel-mediated short-term plasticity of GABAergic synapses. *Nature Neuroscience*, **2001**, 4, 975-6	25.5	41
36	Synapse-specific contribution of the variation of transmitter concentration to the decay of inhibitory postsynaptic currents. *Biophysical Journal*, **2001**, 80, 1251-61	2.9	88
35	Disruption of GABA(A) receptors on GABAergic interneurons leads to increased oscillatory power in the olfactory bulb network. *Journal of Neurophysiology*, **2001**, 86, 2823-33	3.2	184

34	Kindling induces transient NMDA receptor-mediated facilitation of high-frequency input in the rat dentate gyrus. *Journal of Neurophysiology*, **2001**, 85, 2195-202	3.2	35
33	The process of epileptogenesis: a pathophysiological approach. *Current Opinion in Neurology*, **2001**, 14, 187-92	7.1	158
32	Localization of the A kinase anchoring protein AKAP79 in the human hippocampus. *European Journal of Neuroscience*, **2000**, 12, 1155-64	3.5	29
31	Cell type- and synapse-specific variability in synaptic GABAA receptor occupancy. *European Journal of Neuroscience*, **2000**, 12, 810-8	3.5	122
30	Glutamate receptor activation in the kindled dentate gyrus. *Epilepsia*, **2000**, 41 Suppl 6, S100-3	6.4	13
29	Surviving granule cells of the sclerotic human hippocampus have reduced Ca(2+) influx because of a loss of calbindin-D(28k) in temporal lobe epilepsy. *Journal of Neuroscience*, **2000**, 20, 1831-6	6.6	125
28	Binding kinetics of calbindin-D(28k) determined by flash photolysis of caged Ca(2+). *Biophysical Journal*, **2000**, 79, 3009-18	2.9	161
27	Modulation of synaptic GABAA receptor function by PKA and PKC in adult hippocampal neurons. *Journal of Neuroscience*, **1999**, 19, 674-83	6.6	164
26	Casein kinase-II regulates NMDA channel function in hippocampal neurons. *Nature Neuroscience*, **1999**, 2, 125-32	25.5	71
25	Glutamatergic synapses onto hippocampal interneurons: precision timing without lasting plasticity. *Trends in Neurosciences*, **1999**, 22, 228-35	13.3	90
24	Decreased sensitivity to Group III mGluR agonists in the lateral perforant path following kindling. *Neuropharmacology*, **1999**, 38, 927-33	5.5	31
23	Increased number of synaptic GABA(A) receptors underlies potentiation at hippocampal inhibitory synapses. *Nature*, **1998**, 395, 172-7	50.4	407
22	The dynamics of synchronized neurotransmitter release determined from compound spontaneous IPSCs in rat dentate granule neurones in vitro. *Journal of Physiology*, **1998**, 510 (Pt 2), 477-97	3.9	39
21	Ion channels in epilepsy. *International Review of Neurobiology*, **1998**, 42, 199-226	4.4	52
20	Substance P enhances NMDA channel function in hippocampal dentate gyrus granule cells. *Journal of Neurophysiology*, **1998**, 80, 113-9	3.2	41
19	Endogenous GABA activates small-conductance K+ channels underlying slow IPSCs in rat hippocampal neurons. *Journal of Neurophysiology*, **1997**, 77, 2202-8	3.2	22
18	Silent GABAA synapses during flurazepam withdrawal are region-specific in the hippocampal formation. *Journal of Neuroscience*, **1997**, 17, 3467-75	6.6	45
17	Synaptic communication among hippocampal interneurons: properties of spontaneous IPSCs in morphologically identified cells. *Journal of Neuroscience*, **1997**, 17, 8427-42	6.6	113

16	Cell properties in the epileptic hippocampus. *Hippocampus*, **1994**, 4, 275-80	3.5	17
15	Regulation of NMDA channel function by endogenous Ca(2+)-dependent phosphatase. *Nature*, **1994**, 369, 235-9	50.4	445
14	The molecular basis of kindling. *Brain Pathology*, **1993**, 3, 395-403	6	58
13	Activity-dependent changes in structure and function of hippocampal neurons. *Hippocampus*, **1993**, 3, 99-111	3.5	4
12	Noradrenergic modulation of excitability in acute and chronic model epilepsies. *Epilepsy Research Supplement*, **1992**, 8, 321-34		3
11	Integrity of perforant path fibers and the frequency of action potential independent excitatory and inhibitory synaptic events in dentate gyrus granule cells. *Synapse*, **1991**, 9, 219-24	2.4	22
10	Halothane enhances tonic neuronal inhibition by elevating intracellular calcium. *Brain Research*, **1991**, 538, 319-23	3.7	107
9	Perpetual inhibitory activity in mammalian brain slices generated by spontaneous GABA release. *Brain Research*, **1991**, 545, 142-50	3.7	176
8	Differential activation of glutamate receptors by spontaneously released transmitter in slices of neocortex. *Neuroscience Letters*, **1990**, 114, 265-71	3.3	55
7	Kindling-induced epilepsy alters calcium currents in granule cells of rat hippocampal slices. *Brain Research*, **1990**, 531, 88-94	3.7	57
6	Dantrolene-Na (Dantrium) blocks induction of long-term potentiation in hippocampal slices. *Neuroscience Letters*, **1989**, 98, 172-8	3.3	113
5	Whole-cell voltage-clamp recordings in granule cells acutely isolated from hippocampal slices of adult or aged rats. *Neuroscience Letters*, **1989**, 96, 70-5	3.3	38
4	Down-regulation of norepinephrine sensitivity after induction of long-term neuronal plasticity (kindling) in the rat dentate gyrus. *Brain Research*, **1989**, 476, 367-72	3.7	17
3	A method for isolating and patch-clamping single mammalian taste receptor cells. *Brain Research*, **1989**, 503, 326-9	3.7	66
2	Requirement of NMDA receptor/channels for intracellular high-energy phosphates and the extent of intraneuronal calcium buffering in cultured mouse hippocampal neurons. *Neuroscience Letters*, **1988**, 93, 73-8	3.3	52
1	NMDA receptors of dentate gyrus granule cells participate in synaptic transmission following kindling. *Nature*, **1987**, 326, 701-4	50.4	368