

Bernardo L Sabatini

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.

150
papers

20,002
citations

73
h-index

141
g-index

184
ext. papers

23,746
ext. citations

16.2
avg, IF

7.04
L-index

#	Paper	IF	Citations
150	Orthogonalization of far-field detection in tapered optical fibers for depth-selective fiber photometry in brain tissue.. <i>APL Photonics</i> , 2022 , 7, 026106	5.2	1
149	Co-packaging of opposing neurotransmitters in individual synaptic vesicles in the central nervous system.. <i>Neuron</i> , 2022 ,	13.9	1
148	Analysis of Thermogenesis Experiments with CalR.. <i>Methods in Molecular Biology</i> , 2022 , 2448, 43-72	1.4	1
147	Astrocyte-neuron crosstalk through Hedgehog signaling mediates cortical synapse development.. <i>Cell Reports</i> , 2022 , 38, 110416	10.6	4
146	Dendritic branch structure compartmentalizes voltage-dependent calcium influx in cortical layer 2/3 pyramidal cells.. <i>ELife</i> , 2022 , 11,	8.9	1
145	Mice exhibit stochastic and efficient action switching during probabilistic decision making.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113961119	11.5	0
144	Neurophotonic tools for microscopic measurements and manipulation: status report.. <i>Neurophotonics</i> , 2022 , 9, 013001	3.9	0
143	Striatal indirect pathway mediates exploration via collicular competition. <i>Nature</i> , 2021 , 599, 645-649	50.4	3
142	Real-Time, In Vivo Measurement of Protein Kinase A Activity in Deep Brain Structures Using Fluorescence Lifetime Photometry (FLiP). <i>Current Protocols</i> , 2021 , 1, e265		
141	Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories. <i>Cell</i> , 2021 , 184, 5622-5634.e25	56.2	6
140	Social isolation uncovers a circuit underlying context-dependent territory-covering micturition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
139	Cell-type-specific asynchronous modulation of PKA by dopamine in learning. <i>Nature</i> , 2021 , 590, 451-456	50.4	28
138	Comparative study of autofluorescence in flat and tapered optical fibers towards application in depth-resolved fluorescence lifetime photometry in brain tissue. <i>Biomedical Optics Express</i> , 2021 , 12, 993-1010	3.5	5
137	The Kinase Specificity of Protein Kinase Inhibitor Peptide. <i>Frontiers in Pharmacology</i> , 2021 , 12, 632815	5.6	3
136	Caveolae in CNS arterioles mediate neurovascular coupling. <i>Nature</i> , 2020 , 579, 106-110	50.4	80
135	Two-photon fluorescence-assisted laser ablation of non-planar metal surfaces: fabrication of optical apertures on tapered fibers for optical neural interfaces. <i>Optics Express</i> , 2020 , 28, 21368-21381	3.3	5
134	Ray tracing models for estimating light collection properties of microstructured tapered optical fibers for optical neural interfaces. <i>Optics Letters</i> , 2020 , 45, 3856-3859	3	5

133	Anatomical and single-cell transcriptional profiling of the murine habenular complex. <i>ELife</i> , 2020 , 9,	8.9	25
132	Author response: Anatomical and single-cell transcriptional profiling of the murine habenular complex 2020 ,		3
131	Cortical ChAT neurons co-transmit acetylcholine and GABA in a target- and brain-region-specific manner. <i>ELife</i> , 2020 , 9,	8.9	19
130	Rapid purification and metabolomic profiling of synaptic vesicles from mammalian brain. <i>ELife</i> , 2020 , 9,	8.9	9
129	Anatomically segregated basal ganglia pathways allow parallel behavioral modulation. <i>Nature Neuroscience</i> , 2020 , 23, 1388-1398	25.5	35
128	Imaging Neurotransmitter and Neuromodulator Dynamics In Vivo with Genetically Encoded Indicators. <i>Neuron</i> , 2020 , 108, 17-32	13.9	41
127	Viral manipulation of functionally distinct interneurons in mice, non-human primates and humans. <i>Nature Neuroscience</i> , 2020 , 23, 1629-1636	25.5	44
126	Single-Cell Analysis of Neuroinflammatory Responses Following Intracranial Injection of G-Deleted Rabies Viruses. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 65	6.1	14
125	Monitoring Behaviorally Induced Biochemical Changes Using Fluorescence Lifetime Photometry. <i>Frontiers in Neuroscience</i> , 2019 , 13, 766	5.1	22
124	Depth-resolved fiber photometry with a single tapered optical fiber implant. <i>Nature Methods</i> , 2019 , 16, 1185-1192	21.6	49
123	In vivo nuclear capture and molecular profiling identifies Gmeb1 as a transcriptional regulator essential for dopamine neuron function. <i>Nature Communications</i> , 2019 , 10, 2508	17.4	2
122	The Three-Dimensional Signal Collection Field for Fiber Photometry in Brain Tissue. <i>Frontiers in Neuroscience</i> , 2019 , 13, 82	5.1	25
121	Distinct Cortical-Thalamic-Striatal Circuits through the Parafascicular Nucleus. <i>Neuron</i> , 2019 , 102, 636-652, e7	13.9	64
120	Focused ion beam nanomachining of tapered optical fibers for patterned light delivery. <i>Microelectronic Engineering</i> , 2019 , 195, 41-49	2.5	24
119	Molecular and anatomical organization of the dorsal raphe nucleus. <i>ELife</i> , 2019 , 8,	8.9	63
118	Author response: Molecular and anatomical organization of the dorsal raphe nucleus 2019 ,		3
117	Population imaging of neural activity in awake behaving mice. <i>Nature</i> , 2019 , 574, 413-417	50.4	104
116	A robotic multidimensional directed evolution approach applied to fluorescent voltage reporters. <i>Nature Chemical Biology</i> , 2018 , 14, 352-360	11.7	187

115	A Caged Enkephalin Optimized for Simultaneously Probing Mu and Delta Opioid Receptors. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 684-690	5.7	12
114	Silk Fibroin Films Facilitate Single-Step Targeted Expression of Optogenetic Proteins. <i>Cell Reports</i> , 2018 , 22, 3351-3361	10.6	18
113	Tailoring light delivery for optogenetics by modal demultiplexing in tapered optical fibers. <i>Scientific Reports</i> , 2018 , 8, 4467	4.9	27
112	Heparan Sulfate Organizes Neuronal Synapses through Neurexin Partnerships. <i>Cell</i> , 2018 , 174, 1450-1464.e23	56.2	81
111	Sunlight Brightens Learning and Memory. <i>Cell</i> , 2018 , 173, 1570-1572	56.2	4
110	Single-cell analysis of experience-dependent transcriptomic states in the mouse visual cortex. <i>Nature Neuroscience</i> , 2018 , 21, 120-129	25.5	237
109	The Striatum Organizes 3D Behavior via Moment-to-Moment Action Selection. <i>Cell</i> , 2018 , 174, 44-58.e17	56.2	157
108	Efficient and accurate extraction of in vivo calcium signals from microendoscopic video data. <i>ELife</i> , 2018 , 7,	8.9	232
107	Multi-transmitter neurons in the mammalian central nervous system. <i>Current Opinion in Neurobiology</i> , 2017 , 45, 85-91	7.6	48
106	Dynamic illumination of spatially restricted or large brain volumes via a single tapered optical fiber. <i>Nature Neuroscience</i> , 2017 , 20, 1180-1188	25.5	94
105	Genetically Distinct Parallel Pathways in the Entopeduncular Nucleus for Limbic and Sensorimotor Output of the Basal Ganglia. <i>Neuron</i> , 2017 , 94, 138-152.e5	13.9	95
104	Endogenous Gq-Coupled Neuromodulator Receptors Activate Protein Kinase A. <i>Neuron</i> , 2017 , 96, 1070-1083.e51	13.9	51
103	Cotransmission of acetylcholine and GABA. <i>Neuropharmacology</i> , 2016 , 100, 40-6	5.5	63
102	An E3-ligase-based method for ablating inhibitory synapses. <i>Nature Methods</i> , 2016 , 13, 673-8	21.6	23
101	A Postsynaptic AMPK-p21-Activated Kinase Pathway Drives Fasting-Induced Synaptic Plasticity in AgRP Neurons. <i>Neuron</i> , 2016 , 91, 25-33	13.9	41
100	Mechanisms and functions of GABA co-release. <i>Nature Reviews Neuroscience</i> , 2016 , 17, 139-45	13.5	119
99	Early hyperactivity and precocious maturation of corticostriatal circuits in Shank3B(-/-) mice. <i>Nature Neuroscience</i> , 2016 , 19, 716-724	25.5	127
98	Globus Pallidus Externus Neurons Expressing parvalbumin Interconnect the Subthalamic Nucleus and Striatal Interneurons. <i>PLoS ONE</i> , 2016 , 11, e0149798	3.7	53

97	Development of Anionically Decorated Caged Neurotransmitters: In Vitro Comparison of 7-Nitroindoliny- and 2-(p-Phenyl-o-nitrophenyl)propyl-Based Photochemical Probes. <i>ChemBioChem</i> , 2016 , 17, 953-61	3.8	19
96	Principles of Synaptic Organization of GABAergic Interneurons in the Striatum. <i>Neuron</i> , 2016 , 92, 84-92	13.9	76
95	A direct GABAergic output from the basal ganglia to frontal cortex. <i>Nature</i> , 2015 , 521, 85-9	50.4	181
94	Modal demultiplexing properties of tapered and nanostructured optical fibers for in vivo optogenetic control of neural activity. <i>Biomedical Optics Express</i> , 2015 , 6, 4014-26	3.5	21
93	Cre Activated and Inactivated Recombinant Adeno-Associated Viral Vectors for Neuronal Anatomical Tracing or Activity Manipulation. <i>Current Protocols in Neuroscience</i> , 2015 , 72, 1.24.1-1.24.15	2.7	16
92	Neuromodulation of excitatory synaptogenesis in striatal development. <i>ELife</i> , 2015 , 4,	8.9	37
91	Antagonistic but Not Symmetric Regulation of Primary Motor Cortex by Basal Ganglia Direct and Indirect Pathways. <i>Neuron</i> , 2015 , 86, 1174-81	13.9	78
90	Enkephalin Disinhibits Mu Opioid Receptor-Rich Striatal Patches via Delta Opioid Receptors. <i>Neuron</i> , 2015 , 88, 1227-1239	13.9	60
89	Metabolism. Lysosomal amino acid transporter SLC38A9 signals arginine sufficiency to mTORC1. <i>Science</i> , 2015 , 347, 188-94	33.3	517
88	Corelease of acetylcholine and GABA from cholinergic forebrain neurons. <i>ELife</i> , 2015 , 4,	8.9	115
87	Author response: Corelease of acetylcholine and GABA from cholinergic forebrain neurons 2015 ,		4
86	How to grow a synapse. <i>Neuron</i> , 2014 , 82, 256-7	13.9	9
85	Multiphasic modulation of cholinergic interneurons by nigrostriatal afferents. <i>Journal of Neuroscience</i> , 2014 , 34, 8557-69	6.6	66
84	All-optical electrophysiology in mammalian neurons using engineered microbial rhodopsins. <i>Nature Methods</i> , 2014 , 11, 825-33	21.6	487
83	Multipoint-emitting optical fibers for spatially addressable in vivo optogenetics. <i>Neuron</i> , 2014 , 82, 1245-54	13.9	112
82	High content image analysis identifies novel regulators of synaptogenesis in a high-throughput RNAi screen of primary neurons. <i>PLoS ONE</i> , 2014 , 9, e91744	3.7	32
81	CRISPR/Cas9-mediated gene knock-down in post-mitotic neurons. <i>PLoS ONE</i> , 2014 , 9, e105584	3.7	75
80	A PKA activity sensor for quantitative analysis of endogenous GPCR signaling via 2-photon FRET-FLIM imaging. <i>Frontiers in Pharmacology</i> , 2014 , 5, 56	5.6	56

79	Super-resolution 2-photon microscopy reveals that the morphology of each dendritic spine correlates with diffusive but not synaptic properties. <i>Frontiers in Neuroanatomy</i> , 2014 , 8, 29	3.6	35
78	Phosphorylation of Ser1166 on GluN2B by PKA is critical to synaptic NMDA receptor function and Ca ²⁺ signaling in spines. <i>Journal of Neuroscience</i> , 2014 , 34, 869-79	6.6	73
77	A direct projection from mouse primary visual cortex to dorsomedial striatum. <i>PLoS ONE</i> , 2014 , 9, e104501	5.7	30
76	Midbrain dopamine neurons sustain inhibitory transmission using plasma membrane uptake of GABA, not synthesis. <i>ELife</i> , 2014 , 3, e01936	8.9	120
75	A nanobody-based system using fluorescent proteins as scaffolds for cell-specific gene manipulation. <i>Cell</i> , 2013 , 154, 928-39	56.2	87
74	Caged naloxone reveals opioid signaling deactivation kinetics. <i>Molecular Pharmacology</i> , 2013 , 84, 687-95	4.3	21
73	Live-cell superresolution imaging by pulsed STED two-photon excitation microscopy. <i>Biophysical Journal</i> , 2013 , 104, 770-7	2.9	104
72	Optically selective two-photon uncaging of glutamate at 900 nm. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5954-7	16.4	109
71	Recombinant probes for visualizing endogenous synaptic proteins in living neurons. <i>Neuron</i> , 2013 , 78, 971-85	13.9	168
70	Excitatory/inhibitory synaptic imbalance leads to hippocampal hyperexcitability in mouse models of tuberous sclerosis. <i>Neuron</i> , 2013 , 78, 510-22	13.9	216
69	Spectral evolution of a photochemical protecting group for orthogonal two-color uncaging with visible light. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15948-54	16.4	86
68	Dopaminergic modulation of synaptic transmission in cortex and striatum. <i>Neuron</i> , 2012 , 76, 33-50	13.9	443
67	Neurologin-1-dependent competition regulates cortical synaptogenesis and synapse number. <i>Nature Neuroscience</i> , 2012 , 15, 1667-74	25.5	137
66	Signaling in dendritic spines and spine microdomains. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 389-96	7.6	50
65	Calcium signaling in dendritic spines. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4, a005686	10.2	111
64	Transient sodium current at subthreshold voltages: activation by EPSP waveforms. <i>Neuron</i> , 2012 , 75, 1081-93	13.9	59
63	Photoactivatable neuropeptides for spatiotemporally precise delivery of opioids in neural tissue. <i>Neuron</i> , 2012 , 73, 249-59	13.9	49
62	Fasting activation of AgRP neurons requires NMDA receptors and involves spinogenesis and increased excitatory tone. <i>Neuron</i> , 2012 , 73, 511-22	13.9	193

61	Dopaminergic neurons inhibit striatal output through non-canonical release of GABA. <i>Nature</i> , 2012 , 490, 262-6	50.4	376
60	Transsynaptic signaling by activity-dependent cleavage of neuroligin-1. <i>Neuron</i> , 2012 , 76, 396-409	13.9	156
59	Recurrent network activity drives striatal synaptogenesis. <i>Nature</i> , 2012 , 485, 646-50	50.4	119
58	Novel recombinant adeno-associated viruses for Cre activated and inactivated transgene expression in neurons. <i>Frontiers in Neural Circuits</i> , 2012 , 6, 47	3.5	93
57	Optical super-resolution microscopy in neurobiology. <i>Current Opinion in Neurobiology</i> , 2012 , 22, 86-93	7.6	44
56	Boosting of synaptic potentials and spine Ca transients by the peptide toxin SNX-482 requires alpha-1E-encoded voltage-gated Ca channels. <i>PLoS ONE</i> , 2011 , 6, e20939	3.7	10
55	Glutamate induces de novo growth of functional spines in developing cortex. <i>Nature</i> , 2011 , 474, 100-4	50.4	253
54	Loss of Tsc1 in vivo impairs hippocampal mGluR-LTD and increases excitatory synaptic function. <i>Journal of Neuroscience</i> , 2011 , 31, 8862-9	6.6	158
53	Anterograde or retrograde transsynaptic labeling of CNS neurons with vesicular stomatitis virus vectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15414-9	11.5	127
52	Semaphorin 3E-Plexin-D1 signaling controls pathway-specific synapse formation in the striatum. <i>Nature Neuroscience</i> , 2011 , 15, 215-23	25.5	80
51	Cholinergic interneurons mediate fast VGluT3-dependent glutamatergic transmission in the striatum. <i>PLoS ONE</i> , 2011 , 6, e19155	3.7	128
50	Competitive regulation of synaptic Ca ²⁺ influx by D2 dopamine and A2A adenosine receptors. <i>Nature Neuroscience</i> , 2010 , 13, 958-66	25.5	186
49	M1 muscarinic receptors boost synaptic potentials and calcium influx in dendritic spines by inhibiting postsynaptic SK channels. <i>Neuron</i> , 2010 , 68, 936-47	13.9	123
48	Distinct domains within PSD-95 mediate synaptic incorporation, stabilization, and activity-dependent trafficking. <i>Journal of Neuroscience</i> , 2009 , 29, 12845-54	6.6	93
47	Biphasic synaptic Ca influx arising from compartmentalized electrical signals in dendritic spines. <i>PLoS Biology</i> , 2009 , 7, e1000190	9.7	89
46	Cholinergic modulation of multivesicular release regulates striatal synaptic potency and integration. <i>Nature Neuroscience</i> , 2009 , 12, 1121-8	25.5	85
45	Supraresolution imaging in brain slices using stimulated-emission depletion two-photon laser scanning microscopy. <i>Neuron</i> , 2009 , 63, 429-37	13.9	141
44	Regulation of synaptic signalling by postsynaptic, non-glutamate receptor ion channels. <i>Journal of Physiology</i> , 2008 , 586, 1475-80	3.9	33

43	Developmental presence and disappearance of postsynaptically silent synapses on dendritic spines of rat layer 2/3 pyramidal neurons. <i>Journal of Physiology</i> , 2008 , 586, 1519-27	3.9	49
42	Amyloid-beta protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory. <i>Nature Medicine</i> , 2008 , 14, 837-42	50.5	2779
41	Pam (Protein associated with Myc) functions as an E3 ubiquitin ligase and regulates TSC/mTOR signaling. <i>Cellular Signalling</i> , 2008 , 20, 1084-91	4.9	58
40	Molecular dissociation of the role of PSD-95 in regulating synaptic strength and LTD. <i>Neuron</i> , 2008 , 57, 248-62	13.9	143
39	Calcium signaling in dendrites and spines: practical and functional considerations. <i>Neuron</i> , 2008 , 59, 902-13	13.9	152
38	Destabilization of the postsynaptic density by PSD-95 serine 73 phosphorylation inhibits spine growth and synaptic plasticity. <i>Neuron</i> , 2008 , 60, 788-802	13.9	193
37	A novel computational approach for automatic dendrite spines detection in two-photon laser scan microscopy. <i>Journal of Neuroscience Methods</i> , 2007 , 165, 122-34	3	46
36	Ca(2+) signaling in dendritic spines. <i>Current Opinion in Neurobiology</i> , 2007 , 17, 345-51	7.6	120
35	Anatomical and physiological plasticity of dendritic spines. <i>Annual Review of Neuroscience</i> , 2007 , 30, 79-97	17	476
34	Timing and location of synaptic inputs determine modes of subthreshold integration in striatal medium spiny neurons. <i>Journal of Neuroscience</i> , 2007 , 27, 8967-77	6.6	79
33	Distinct structural and ionotropic roles of NMDA receptors in controlling spine and synapse stability. <i>Journal of Neuroscience</i> , 2007 , 27, 7365-76	6.6	101
32	Natural oligomers of the Alzheimer amyloid-beta protein induce reversible synapse loss by modulating an NMDA-type glutamate receptor-dependent signaling pathway. <i>Journal of Neuroscience</i> , 2007 , 27, 2866-75	6.6	1232
31	NeuronIQ: A novel computational approach for automatic dendrite spines detection and analysis 2007 ,		2
30	Nonlinear regulation of unitary synaptic signals by CaV(2.3) voltage-sensitive calcium channels located in dendritic spines. <i>Neuron</i> , 2007 , 53, 249-60	13.9	218
29	Dendritic spine detection using curvilinear structure detector and LDA classifier. <i>NeuroImage</i> , 2007 , 36, 346-60	7.9	45
28	Synapse-specific plasticity and compartmentalized signaling in cerebellar stellate cells. <i>Nature Neuroscience</i> , 2006 , 9, 798-806	25.5	147
27	Retraction of synapses and dendritic spines induced by off-target effects of RNA interference. <i>Journal of Neuroscience</i> , 2006 , 26, 7820-5	6.6	89
26	Neuronal activity regulates diffusion across the neck of dendritic spines. <i>Science</i> , 2005 , 310, 866-9	33.3	281

25	SK channels and NMDA receptors form a Ca ²⁺ -mediated feedback loop in dendritic spines. <i>Nature Neuroscience</i> , 2005 , 8, 642-9	25.5	353
24	Regulation of neuronal morphology and function by the tumor suppressors Tsc1 and Tsc2. <i>Nature Neuroscience</i> , 2005 , 8, 1727-34	25.5	388
23	Imaging calcium concentration dynamics in small neuronal compartments. <i>Science Signaling</i> , 2004 , 2004, p15	8.8	195
22	State-dependent calcium signaling in dendritic spines of striatal medium spiny neurons. <i>Neuron</i> , 2004 , 44, 483-93	13.9	271
21	Plasticity of calcium channels in dendritic spines. <i>Nature Neuroscience</i> , 2003 , 6, 948-55	25.5	213
20	ScanImage: flexible software for operating laser scanning microscopes. <i>BioMedical Engineering OnLine</i> , 2003 , 2, 13	4.1	837
19	Facilitation at single synapses probed with optical quantal analysis. <i>Nature Neuroscience</i> , 2002 , 5, 657-64	25.5	261
18	Structure and function of dendritic spines. <i>Annual Review of Physiology</i> , 2002 , 64, 313-53	23.1	903
17	The life cycle of Ca(2+) ions in dendritic spines. <i>Neuron</i> , 2002 , 33, 439-52	13.9	549
16	Ca(2+) signaling in dendritic spines. <i>Current Opinion in Neurobiology</i> , 2001 , 11, 349-56	7.6	217
15	Analysis of calcium channels in single spines using optical fluctuation analysis. <i>Nature</i> , 2000 , 408, 589-93	50.4	226
14	Optical measurement of presynaptic calcium currents. <i>Biophysical Journal</i> , 1998 , 74, 1549-63	2.9	105
13	Control of neurotransmitter release by presynaptic waveform at the granule cell to Purkinje cell synapse. <i>Journal of Neuroscience</i> , 1997 , 17, 3425-35	6.6	216
12	Timing of neurotransmission at fast synapses in the mammalian brain. <i>Nature</i> , 1996 , 384, 170-2	50.4	320
11	Striatal indirect pathway mediates action switching via modulation of collicular dynamics		1
10	Bots for Software-Assisted Analysis of Image-Based Transcriptomics		2
9	Rapid purification and metabolomic profiling of synaptic vesicles from mammalian brain		2
8	Bombesin-like peptide recruits disinhibitory cortical circuits and enhances fear memories		1

7	Distinct Cortical-Thalamic-Striatal Circuits Through the Parafascicular Nucleus	1
6	Target-specific co-transmission of acetylcholine and GABA from a subset of cortical VIP+ interneurons	6
5	Population imaging of neural activity in awake behaving mice in multiple brain regions	7
4	Distinct neuronal subtypes of the lateral habenula differentially target ventral tegmental area dopamine neurons	2
3	Cell-type specific asynchronous modulation of PKA by dopamine during reward based learning	9
2	Biophysical demonstration of co-packaging of glutamate and GABA in individual synaptic vesicles in the central nervous system	2
1	Efficient and stochastic mouse action switching during probabilistic decision making	2