# Scott C Baraban

List of Publications by Year
in descending order



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|---|---|---|---|
| 118 papers | 7,620 citations | 47 h-index (47006) | 82 g-index (58581) |
| 126 all docs | 126 docs citations | 126 times ranked | 7851 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Xenotransplantation of porcine progenitor cells in an epileptic California sea lion (Zalophus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T f | 6.3 | 4 |
| 2 | Clemizole and trazodone are effective antiseizure treatments in a zebrafish model of <scp>STXBP1</scp> disorder. Epilepsia Open, 2022, 7, 504-511. | 2.4 | 8 |
| 3 | Enhancing glucose metabolism via gluconeogenesis is therapeutic in a zebrafish model of Dravet syndrome. Brain Communications, 2021, 3, fcab004. | 3.3 | 14 |
| 4 | Interneuron origins in the embryonic porcine medial ganglionic eminence. Journal of Neuroscience, 2021, 41, JN-RM-2738-20. | 3.6 | 7 |
| 5 | Phenotypic analysis of catastrophic childhood epilepsy genes. Communications Biology, 2021, 4, 680. | 4.4 | 34 |
| 6 | InÂvivo calcium imaging reveals disordered interictal network dynamics in epileptic stxbp1b zebrafish. IScience, 2021, 24, 102558. | 4.1 | 16 |
| 7 | A zebrafish-centric approach to antiepileptic drug development. DMM Disease Models and Mechanisms, 2021, 14, . | 2.4 | 19 |
| 8 | Maximally selective single-cell target for circuit control in epilepsy models. Neuron, 2021, 109, 2556-2572.e6. | 8.1 | 31 |
| 9 | Hippocampal gamma and sharp-wave ripple oscillations are altered in a Cntnap2 mouse model of autism spectrum disorder. Cell Reports, 2021, 37, 109970. | 6.4 | 24 |
| 10 | Interneuron deficits in neurodevelopmental disorders: Implications for disease pathology and interneuron-based therapies. European Journal of Paediatric Neurology, 2020, 24, 81-88. | 1.6 | 20 |
| 11 | Phenotype-Based Screening of Synthetic Cannabinoids in a Dravet Syndrome Zebrafish Model. Frontiers in Pharmacology, 2020, 11, 464. | 3.5 | 20 |
| 12 | Zebrafish studies identify serotonin receptors mediating antiepileptic activity in Dravet syndrome. Brain Communications, 2019, 1, fcz008. | 3.3 | 34 |
| 13 | Network Properties Revealed during Multi-Scale Calcium Imaging of Seizure Activity in Zebrafish. ENeuro, 2019, 6, ENEURO.0041-19.2019. | 1.9 | 74 |
| 14 | Dlx1andDlx2Promote Interneuron GABA Synthesis, Synaptogenesis, and Dendritogenesis. Cerebral Cortex, 2018, 28, 3797-3815. | 2.9 | 72 |
| 15 | Preclinical Animal Models for Dravet Syndrome: Seizure Phenotypes, Comorbidities and Drug Screening. Frontiers in Pharmacology, 2018, 9, 573. | 3.5 | 77 |
| 16 | Clemizole and modulators of serotonin signalling suppress seizures in Dravet syndrome. Brain, 2017, 140, aww342. | 7.6 | 174 |
| 17 | Viral tracing of presynaptic inputs to newly born dentate granule cells in a rodent model of mesial temporal lobe epilepsy. Annals of Neurology, 2017, 81, 769-771. | 5.3 | 0 |
| 18 | Persistent seizure control in epileptic mice transplanted with gammaâ€aminobutyric acid progenitors. Annals of Neurology, 2017, 82, 530-542. | 5.3 | 43 |

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|---|---|---|---|
| 19 | PAFAH1B1 haploinsufficiency disrupts GABA neurons and synaptic E/I balance in the dentate gyrus. Scientific Reports, 2017, 7, 8269. | 3.3 | 13 |
| 20 | Catastrophic Epilepsies of Childhood. Annual Review of Neuroscience, 2017, 40, 149-166. | 10.7 | 23 |
| 21 | Mutations of conserved non-coding elements of PITX2 in patients with ocular dysgenesis and developmental glaucoma. Human Molecular Genetics, 2017, 26, 3630-3638. | 2.9 | 28 |
| 22 | Behavioral Comorbidities and Drug Treatments in a Zebrafishscn1labModel of Dravet Syndrome. ENeuro, 2017, 4, ENEURO.0066-17.2017. | 1.9 | 37 |
| 23 | Medial Ganglionic Eminence Progenitors Transplanted into Hippocampus Integrate in a Functional and Subtype-Appropriate Manner. ENeuro, 2017, 4, ENEURO.0359-16.2017. | 1.9 | 24 |
| 24 | Epilepsy, Behavioral Abnormalities, and Physiological Comorbidities in Syntaxin-Binding Protein 1 (STXBP1) Mutant Zebrafish. PLoS ONE, 2016, 11, e0151148. | 2.5 | 87 |
| 25 | A Novel Long-term, Multi-Channel and Non-invasive Electrophysiology Platform for Zebrafish. Scientific Reports, 2016, 6, 28248. | 3.3 | 59 |
| 26 | Synaptic integration of transplanted interneuron progenitor cells into native cortical networks. Journal of Neurophysiology, 2016, 116, 472-478. | 1.8 | 27 |
| 27 | Advancing epilepsy treatment through personalized genetic zebrafish models. Progress in Brain Research, 2016, 226, 195-207. | 1.4 | 43 |
| 28 | Altered Glycolysis and Mitochondrial Respiration in a Zebrafish Model of Dravet Syndrome. ENeuro, 2016, 3, ENEURO.0008-16.2016. | 1.9 | 60 |
| 29 | Large-Scale Phenotype-Based Antiepileptic Drug Screening in a Zebrafish Model of Dravet Syndrome. ENeuro, 2015, 2, ENEURO.0068-15.2015. | 1.9 | 113 |
| 30 | Interneuron Transplantation as a Treatment for Epilepsy. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a022376. | 6.2 | 52 |
| 31 | Animal models in epilepsy research: legacies and new directions. Nature Neuroscience, 2015, 18, 339-343. | 14.8 | 209 |
| 32 | NPAS1 Represses the Generation of Specific Subtypes of Cortical Interneurons. Neuron, 2014, 84, 940-953. | 8.1 | 60 |
| 33 | Bidirectional homeostatic plasticity induced by interneuron cell death and transplantation in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 492-497. | 7.1 | 49 |
| 34 | Lhx6 Directly Regulates Arx and CXCR7 to Determine Cortical Interneuron Fate and Laminar Position. Neuron, 2014, 82, 350-364. | 8.1 | 118 |
| 35 | Olig1 Function Is Required to Repress Dlx1/2 and Interneuron Production in Mammalian Brain. Neuron, 2014, 81, 574-587. | 8.1 | 63 |
| 36 | What New Modeling Approaches Will Help Us Identify Promising Drug Treatments?. Advances in Experimental Medicine and Biology, 2014, 813, 283-294. | 1.6 | 26 |

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|---|---|---|---|
| 37 | 14-3-3Îµ and Î¶ Regulate Neurogenesis and Differentiation of Neuronal Progenitor Cells in the Developing Brain. Journal of Neuroscience, 2014, 34, 12168-12181. | 3.6 | 102 |
| 38 | Neocortical integration of transplanted GABA progenitor cells from wild type and GABAB receptor knockout mouse donors. Neuroscience Letters, 2014, 561, 52-57. | 2.1 | 11 |
| 39 | GABAB receptors in maintenance of neocortical circuit function. Experimental Neurology, 2014, 261, 163-170. | 4.1 | 4 |
| 40 | Drug screening in Scn1a zebrafish mutant identifies clemizole as a potential Dravet syndrome treatment. Nature Communications, 2013, 4, 2410. | 12.8 | 335 |
| 41 | Forebrain Electrophysiological Recording in Larval Zebrafish. Journal of Visualized Experiments, 2013, , . | 0.3 | 35 |
| 42 | GABA progenitors grafted into the adult epileptic brain control seizures and abnormal behavior. Nature Neuroscience, 2013, 16, 692-697. | 14.8 | 250 |
| 43 | ALLN rescues an in vitro excitatory synaptic transmission deficit in Lis1 mutant mice. Journal of Neurophysiology, 2013, 109, 429-436. | 1.8 | 9 |
| 44 | Use of â€œMGE Enhancersâ€•for Labeling and Selection of Embryonic Stem Cell-Derived Medial Ganglionic Eminence (MGE) Progenitors and Neurons. PLoS ONE, 2013, 8, e61956. | 2.5 | 28 |
| 45 | Intrinsically determined cell death of developing cortical interneurons. Nature, 2012, 491, 109-113. | 27.8 | 293 |
| 46 | LIS1 Deficiency Promotes Dysfunctional Synaptic Integration of Granule Cells Generated in the Developing and Adult Dentate Gyrus. Journal of Neuroscience, 2012, 32, 12862-12875. | 3.6 | 30 |
| 47 | Impaired neural development in a zebrafish model for Lowe syndrome. Human Molecular Genetics, 2012, 21, 1744-1759. | 2.9 | 69 |
| 48 | A novel zebrafish model of hyperthermia-induced seizures reveals a role for TRPV4 channels and NMDA-type glutamate receptors. Experimental Neurology, 2012, 237, 199-206. | 4.1 | 109 |
| 49 | Familial cortical myoclonus with a mutation in NOL3. Annals of Neurology, 2012, 72, 175-183. | 5.3 | 23 |
| 50 | The Devil is in the Details: Stem Cells for the Treatment of Epilepsy. Epilepsy Currents, 2012, 12, 213-215. | 0.8 | 0 |
| 51 | Expression and function of KCNQ channels in larval zebrafish. Developmental Neurobiology, 2012, 72, 186-198. | 3.0 | 32 |
| 52 | Cell Therapy Using GABAergic Neural Progenitors. , 2012, , 1122-1128. | | 12 |
| 53 | The promise of an interneuronâ€based cell therapy for epilepsy. Developmental Neurobiology, 2011, 71, 107-117. | 3.0 | 45 |
| 54 | Aberrant expression of genes necessary for neuronal development and notch signaling in an epileptic mind bomb zebrafish. Developmental Dynamics, 2011, 240, 1964-1976. | 1.8 | 25 |

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|---|---|---|---|
| 55 | Deletion of Dlx1 results in reduced glutamatergic input to hippocampal interneurons. Journal of Neurophysiology, 2011, 105, 1984-1991. | 1.8 | 21 |
| 56 | Animal Models of Epilepsy. , 2011, , 659-665. | | 1 |
| 57 | Cell therapy for epilepsy using GABAergic neural progenitors. Epilepsia, 2010, 51, 94-94. | 5.1 | 6 |
| 58 | Robust tonic GABA currents can inhibit cell firing in mouse newborn neocortical pyramidal cells. European Journal of Neuroscience, 2010, 32, 1310-1318. | 2.6 | 29 |
| 59 | Spontaneous Seizures and Altered Gene Expression in GABA Signaling Pathways in amind bombMutant Zebrafish. Journal of Neuroscience, 2010, 30, 13718-13728. | 3.6 | 96 |
| 60 | Zebrafish as a model for studying genetic aspects of epilepsy. DMM Disease Models and Mechanisms, 2010, 3, 144-148. | 2.4 | 139 |
| 61 | Dlx5andDlx6Regulate the Development of Parvalbumin-Expressing Cortical Interneurons. Journal of Neuroscience, 2010, 30, 5334-5345. | 3.6 | 162 |
| 62 | Basic mechanisms ofÂMCD inÂanimal models. Epileptic Disorders, 2009, 11, 206-214. | 1.3 | 14 |
| 63 | Reduction of seizures by transplantation of cortical GABAergic interneuron precursors into Kv1.1 mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15472-15477. | 7.1 | 187 |
| 64 | Inhibitory Inputs to Hippocampal Interneurons Are Reorganized in Lis1 Mutant Mice. Journal of Neurophysiology, 2009, 102, 648-658. | 1.8 | 22 |
| 65 | Seizures, enhanced excitation, and increased vesicle number in Lis1 mutant mice. Annals of Neurology, 2009, 66, 644-653. | 5.3 | 37 |
| 66 | Zebrafish as a Simple Vertebrate Organism for Epilepsy Research. Neuromethods, 2009, , 59-74. | 0.3 | 1 |
| 67 | Aberrant dentate gyrus cytoarchitecture and fiber lamination in LIS1 mutant mice. Hippocampus, 2008, 18, 758-765. | 1.9 | 21 |
| 68 | Developing cell transplantation for temporal lobe epilepsy. Neurosurgical Focus, 2008, 24, E17. | 2.3 | 21 |
| 69 | Emerging epilepsy models: insights from mice, flies, worms and fish. Current Opinion in Neurology, 2007, 20, 164-168. | 3.6 | 95 |
| 70 | Granule Cell Dispersion and Aberrant Neurogenesis in the Adult Hippocampus of an LIS1 Mutant Mouse. Developmental Neuroscience, 2007, 29, 91-98. | 2.0 | 26 |
| 71 | Characterization of Inhibitory Circuits in the Malformed Hippocampus of Lis1 Mutant Mice. Journal of Neurophysiology, 2007, 98, 2737-2746. | 1.8 | 43 |
| 72 | Neocortical hyperexcitability in a human case of tuberous sclerosis complex and mice lacking neuronal expression ofTSC1. Annals of Neurology, 2007, 61, 139-152. | 5.3 | 122 |

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|---|---|---|---|
| 73 | Altered Glutamate Receptor?Transporter Expression and Spontaneous Seizures in Rats Exposed to Methylazoxymethanol in Utero. Epilepsia, 2007, 48, 158-68. | 5.1 | 54 |
| 74 | A Large-scale Mutagenesis Screen to Identify Seizure-resistant Zebrafish. Epilepsia, 2007, 48, 1151-1157. | 5.1 | 121 |
| 75 | A role for the mTOR pathway in surface expression of AMPA receptors. Neuroscience Letters, 2006, 401, 35-39. | 2.1 | 82 |
| 76 | Embryonic and early postnatal abnormalities contributing to the development of hippocampal malformations in a rodent model of dysplasia. Journal of Comparative Neurology, 2006, 495, 133-148. | 1.6 | 29 |
| 77 | Stromal-Derived Factor-1 (CXCL12) Regulates Laminar Position of Cajal-Retzius Cells in Normal and Dysplastic Brains. Journal of Neuroscience, 2006, 26, 9404-9412. | 3.6 | 121 |
| 78 | Cortical Inhibition Modified by Embryonic Neural Precursors Grafted into the Postnatal Brain. Journal of Neuroscience, 2006, 26, 7380-7389. | 3.6 | 170 |
| 79 | Modeling Epilepsy and Seizures in Developing Zebrafish Larvae. , 2006, , 189-198. | | 7 |
| 80 | Mice lacking Dlx1 show subtype-specific loss of interneurons, reduced inhibition and epilepsy. Nature Neuroscience, 2005, 8, 1059-1068. | 14.8 | 458 |
| 81 | Prolonged NMDA-Mediated Responses, Altered Ifenprodil Sensitivity, and Epileptiform-Like Events in the Malformed Hippocampus of Methylazoxymethanol Exposed Rats. Journal of Neurophysiology, 2005, 94, 153-162. | 1.8 | 29 |
| 82 | Dysfunction of Synaptic Inhibition in Epilepsy Associated with Focal Cortical Dysplasia. Journal of Neuroscience, 2005, 25, 9649-9657. | 3.6 | 165 |
| 83 | Pain without Gain (of Function): Sodium Channel Dysfunction in Epilepsy. Epilepsy Currents, 2004, 4, 158-159. | 0.8 | 0 |
| 84 | Abnormal Cortical Cells and Astrocytomas in the Eker Rat Model of Tuberous Sclerosis Complex. Epilepsia, 2004, 45, 1525-1530. | 5.1 | 41 |
| 85 | Neuropeptide Y and epilepsy: recent progress, prospects and controversies. Neuropeptides, 2004, 38, 261-265. | 2.2 | 68 |
| 86 | Interneuron Diversity series: Interneuronal neuropeptides â€“ endogenous regulators of neuronal excitability. Trends in Neurosciences, 2004, 27, 135-142. | 8.6 | 172 |
| 87 | A potential role for astrocytes in mediating the antiepileptic actions of furosemide in vitro. Neuroscience, 2004, 128, 655-663. | 2.3 | 12 |
| 88 | An Examination of Calcium Current Function on Heterotopic Neurons in Hippocampal Slices from Rats Exposed toâ€ƒMethylazoxymethanol. Epilepsia, 2003, 44, 315-321. | 5.1 | 9 |
| 89 | Neuropeptide Y modulates a G protein-coupled inwardly rectifying potassium current in the mouse hippocampus. Neuroscience Letters, 2003, 340, 9-12. | 2.1 | 42 |
| 90 | Target-Specific Neuropeptide Y-Ergic Synaptic Inhibition and Its Network Consequences within the Mammalian Thalamus. Journal of Neuroscience, 2003, 23, 9639-9649. | 3.6 | 55 |

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|---|---|---|---|
| 91 | Hippocampal heterotopia with molecular and electrophysiological properties of neocortical neurons. Neuroscience, 2002, 114, 961-972. | 2.3 | 26 |
| 92 | Y5 Receptors Mediate Neuropeptide Y Actions at Excitatory Synapses in Area CA3 of the Mouse Hippocampus. Journal of Neurophysiology, 2002, 87, 558-566. | 1.8 | 52 |
| 93 | Conditions Sufficient for Nonsynaptic Epileptogenesis in the CA1 Region of Hippocampal Slices. Journal of Neurophysiology, 2002, 87, 62-71. | 1.8 | 34 |
| 94 | Heterotopic Neurons with Altered Inhibitory Synaptic Function in an Animal Model of Malformation-Associated Epilepsy. Journal of Neuroscience, 2002, 22, 7596-7605. | 3.6 | 57 |
| 95 | Antiepileptic Actions of Neuropeptide Y in the Mouse Hippocampus Require Y5 Receptors. Epilepsia, 2002, 43, 9-13. | 5.1 | 34 |
| 96 | Epilepsy Research Takes Flight. Epilepsy Currents, 2002, 2, 100-101. | 0.8 | 0 |
| 97 | Effects of antiepileptic drugs on induced epileptiform activity in a rat model of dysplasia. Epilepsy Research, 2002, 50, 251-264. | 1.6 | 85 |
| 98 | A Review of Gene Expression Patterns in the Malformed Brain. Molecular Neurobiology, 2002, 26, 109-116. | 4.0 | 8 |
| 99 | Hippocampal Heterotopia Lack Functional Kv4.2 Potassium Channels in the Methylazoxymethanol Model of Cortical Malformations and Epilepsy. Journal of Neuroscience, 2001, 21, 6626-6634. | 3.6 | 112 |
| 100 | Epileptogenesis in the Dysplastic Brain: A Revival of Familiar Themes. Epilepsy Currents, 2001, 1, 6-11. | 0.8 | 12 |
| 101 | Characterization of heterotopic cell clusters in the hippocampus of rats exposed to methylazoxymethanol in utero. Epilepsy Research, 2000, 39, 87-102. | 1.6 | 76 |
| 102 | Properties of a Calcium-Activated K+ Current on Interneurons in the Developing Rat Hippocampus. Journal of Neurophysiology, 2000, 83, 3453-3461. | 1.8 | 25 |
| 103 | Modulation of Burst Frequency, Duration, and Amplitude in the Zero-Ca<sup>2+</sup> Model of Epileptiform Activity. Journal of Neurophysiology, 1999, 82, 2262-2270. | 1.8 | 70 |
| 104 | Hippocampal dysplasia in rats exposed to cocaine in utero. Developmental Brain Research, 1999, 117, 213-217. | 1.7 | 21 |
| 105 | Osmolarity, ionic flux, and changes in brain excitability. Epilepsy Research, 1998, 32, 275-285. | 1.6 | 196 |
| 106 | Neuropeptide Y and Limbic Seizures. Reviews in the Neurosciences, 1998, 9, 117-28. | 2.9 | 42 |
| 107 | Effects of Hyposmolar Solutions on Membrane Currents of Hippocampal Interneurons and Mossy Cells In Vitro. Journal of Neurophysiology, 1998, 79, 1108-1112. | 1.8 | 8 |
| 108 | Knock-Out Mice Reveal a Critical Antiepileptic Role for Neuropeptide Y. Journal of Neuroscience, 1997, 17, 8927-8936. | 3.6 | 285 |

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|---|---|---|---|
| 109 | Effects of Prenatal Cocaine Exposure on the Developing Hippocampus: Intrinsic and Synaptic Physiology. Journal of Neurophysiology, 1997, 77, 126-136. | 1.8 | 21 |
| 110 | Evidence for increased seizure susceptibility in rats exposed to cocaine in utero. Developmental Brain Research, 1997, 102, 189-196. | 1.7 | 21 |
| 111 | Flurothyl seizure susceptibility in rats following prenatal methylazoxymethanol treatment. Epilepsy Research, 1996, 23, 189-194. | 1.6 | 86 |
| 112 | Chapter 8 Role of medulla oblongata in generation of sympathetic and vagal outflows. Progress in Brain Research, 1996, 107, 127-144. | 1.4 | 129 |
| 113 | Electrophysiology of CA1 pyramidal neurons in an animal model of neuronal migration disorders: prenatal methylazoxymethanol treatment. Epilepsy Research, 1995, 22, 145-156. | 1.6 | 100 |
| 114 | Effects of morphine and morphine withdrawal on adrenergic neurons of the rat rostral ventrolateral medulla. Brain Research, 1995, 676, 245-257. | 2.2 | 60 |
| 115 | Dissociation of Synchronization and Excitability in Furosemide Blockade of Epileptiform Activity. Science, 1995, 270, 99-102. | 12.6 | 197 |
| 116 | Voltage-activated potassium currents in acutely dissociated hippocampal dentate gyrus neurons from neonatal rats. Developmental Brain Research, 1994, 81, 309-313. | 1.7 | 6 |
| 117 | Respiratory Control of Sympathetic Nerve Activity During Naxolone-Precipitated Morphine Withdrawal in Rats. Survey of Anesthesiology, 1994, 38, 130. | 0.1 | 0 |
| 118 | In vivo Calcium Imaging Reveals Disordered Interictal Network Dynamics in Epileptic <i>stxbp1b</i> Zebrafish. SSRN Electronic Journal, 0, , . | 0.4 | 0 |