

Mathieu Beraneck

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,342
citations

331670

21
h-index

361022

35
g-index

55
all docs

55
docs citations

55
times ranked

1077
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Long-Term Plasticity of Ipsilesional Medial Vestibular Nucleus Neurons After Unilateral Labyrinthectomy. <i>Journal of Neurophysiology</i> , 2003, 90, 184-203. | 1.8 | 108 |
| 2 | Local gene therapy durably restores vestibular function in a mouse model of Usher syndrome type 1G. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9695-9700. | 7.1 | 101 |
| 3 | Asymmetric Recovery in Cerebellar-Deficient Mice Following Unilateral Labyrinthectomy. <i>Journal of Neurophysiology</i> , 2008, 100, 945-958. | 1.8 | 78 |
| 4 | Activity of Vestibular Nuclei Neurons During Vestibular and Optokinetic Stimulation in the Alert Mouse. <i>Journal of Neurophysiology</i> , 2007, 98, 1549-1565. | 1.8 | 76 |
| 5 | Neural substrates underlying vestibular compensation: Contribution of peripheral versus central processing. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2010, 19, 171-182. | 2.0 | 75 |
| 6 | Unilateral Labyrinthectomy Modifies the Membrane Properties of Contralesional Vestibular Neurons. <i>Journal of Neurophysiology</i> , 2004, 92, 1668-1684. | 1.8 | 67 |
| 7 | Reconsidering the Role of Neuronal Intrinsic Properties and Neuromodulation in Vestibular Homeostasis. <i>Frontiers in Neurology</i> , 2012, 3, 25. | 2.4 | 63 |
| 8 | Differential Intrinsic Response Dynamics Determine Synaptic Signal Processing in Frog Vestibular Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 4283-4296. | 3.6 | 54 |
| 9 | AhR-deficiency as a cause of demyelinating disease and inflammation. <i>Scientific Reports</i> , 2017, 7, 9794. | 3.3 | 49 |
| 10 | Vestibular compensation modifies the sensitivity of vestibular neurones to inhibitory amino acids. <i>NeuroReport</i> , 2000, 11, 1921-1927. | 1.2 | 48 |
| 11 | Vestibulo-ocular Signal Transformation in Frequency-Tuned Channels. <i>Annals of the New York Academy of Sciences</i> , 2009, 1164, 37-44. | 3.8 | 38 |
| 12 | Ontogeny of Mouse Vestibulo-Ocular Reflex Following Genetic or Environmental Alteration of Gravity Sensing. <i>PLoS ONE</i> , 2012, 7, e40414. | 2.5 | 37 |
| 13 | Oculomotor Deficits in Aryl Hydrocarbon Receptor Null Mouse. <i>PLoS ONE</i> , 2013, 8, e53520. | 2.5 | 37 |
| 14 | Oscillatory and Intrinsic Membrane Properties of Guinea Pig Nucleus Prepositus Hypoglossi Neurons In Vitro. <i>Journal of Neurophysiology</i> , 2006, 96, 175-196. | 1.8 | 36 |
| 15 | Effects of centrifugation and whole-body vibrations on blood-brain barrier permeability in mice. <i>Npj Microgravity</i> , 2020, 6, 1. | 3.7 | 34 |
| 16 | Long-Lasting Visuo-Vestibular Mismatch in Freely-Behaving Mice Reduces the Vestibulo-Ocular Reflex and Leads to Neural Changes in the Direct Vestibular Pathway. <i>ENeuro</i> , 2017, 4, ENEURO.0290-16.2017. | 1.9 | 33 |
| 17 | Static and Dynamic Membrane Properties of Lateral Vestibular Nucleus Neurons in Guinea Pig Brain Stem Slices. <i>Journal of Neurophysiology</i> , 2003, 90, 1689-1703. | 1.8 | 31 |
| 18 | Second-Order Vestibular Neurons Form Separate Populations With Different Membrane and Discharge Properties. <i>Journal of Neurophysiology</i> , 2004, 92, 845-861. | 1.8 | 31 |

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|----|---|-----|-----------|
| 19 | Involvement of Aryl hydrocarbon receptor in myelination and in human nerve sheath tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1319-E1328. | 7.1 | 27 |
| 20 | Intrinsic membrane properties of central vestibular neurons in rodents. Experimental Brain Research, 2011, 210, 423-436. | 1.5 | 26 |
| 21 | Morphological and functional correlates of vestibular synaptic deafferentation and repair in a mouse model of acute onset vertigo. DMM Disease Models and Mechanisms, 2019, 12, . | 2.4 | 26 |
| 22 | Vestibular signal processing by separate sets of neuronal filters. Journal of Vestibular Research: Equilibrium and Orientation, 2011, 21, 5-19. | 2.0 | 25 |
| 23 | Retinoic Acid Deficiency Impairs the Vestibular Function. Journal of Neuroscience, 2013, 33, 5856-5866. | 3.6 | 25 |
| 24 | Anterior Thalamic Excitation and Feedforward Inhibition of Presubicular Neurons Projecting to Medial Entorhinal Cortex. Journal of Neuroscience, 2018, 38, 6411-6425. | 3.6 | 22 |
| 25 | HCN1 channels in cerebellar Purkinje cells promote late stages of learning and constrain synaptic inhibition. Journal of Physiology, 2013, 591, 5691-5709. | 2.9 | 21 |
| 26 | Functional Development of the Vestibular System. , 2014, , 449-487. | | 20 |
| 27 | No Gain No Pain: Relations Between Vestibulo-Ocular Reflexes and Motion Sickness in Mice. Frontiers in Neurology, 2018, 9, 918. | 2.4 | 19 |
| 28 | Surgical techniques and functional evaluation for vestibular lesions in the mouse: unilateral labyrinthectomy (UL) and unilateral vestibular neurectomy (UVN). Journal of Neurology, 2020, 267, 51-61. | 3.6 | 19 |
| 29 | Temporal Relationship of Ocular and Tail Segmental Movements Underlying Locomotor-Induced Gaze Stabilization During Undulatory Swimming in Larval Xenopus. Frontiers in Neural Circuits, 2018, 12, 95. | 2.8 | 16 |
| 30 | Stabilization of Gaze during Early Xenopus Development by Swimming-Related Utricular Signals. Current Biology, 2020, 30, 746-753.e4. | 3.9 | 16 |
| 31 | Conservation of locomotion-induced oculomotor activity through evolution in mammals. Current Biology, 2022, 32, 453-461.e4. | 3.9 | 12 |
| 32 | Multisensory Integration in Stroke Patients: A Theoretical Approach to Reinterpret Upper-Limb Proprioceptive Deficits and Visual Compensation. Frontiers in Neuroscience, 2021, 15, 646698. | 2.8 | 10 |
| 33 | Impaired Perception of Gravity Leads to Altered Head Direction Signals: What Can We Learn From Vestibular-Deficient Mice?. Journal of Neurophysiology, 2009, 102, 12-14. | 1.8 | 9 |
| 34 | Long term visuo-vestibular mismatch in freely behaving mice differentially affects gaze stabilizing reflexes. Scientific Reports, 2020, 10, 20018. | 3.3 | 8 |
| 35 | Implication of Vestibular Hair Cell Loss of Planar Polarity for the Canal and Otolith-Dependent Vestibulo-Ocular Reflexes in Celsr1 ^{-/-} Mice. Frontiers in Neuroscience, 2021, 15, 750596. | 2.8 | 7 |
| 36 | Long-term Sensory Conflict in Freely Behaving Mice. Journal of Visualized Experiments, 2019, , . | 0.3 | 6 |

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|----|--|------|-----------|
| 37 | Auditory Outcomes After Implantation and Electrical Stimulation of the Lateral Ampullar Nerve in Guinea Pig. <i>Ear and Hearing</i> , 2012, 33, 118-123. | 2.1 | 5 |
| 38 | Locomotion-induced ocular motor behavior in larval <i>Xenopus</i> is developmentally tuned by visuo-vestibular reflexes. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 5 |
| 39 | Evidence against a role of gap junctions in vestibular compensation. <i>Neuroscience Letters</i> , 2009, 450, 97-101. | 2.1 | 4 |
| 40 | The visual encoding of purely proprioceptive intermanual tasks is due to the need of transforming joint signals, not to their interhemispheric transfer. <i>Journal of Neurophysiology</i> , 2017, 118, 1598-1608. | 1.8 | 4 |
| 41 | Task-Specific Differentiation of Central Vestibular Neurons and Plasticity During Vestibular Compensation. , 2020, , 290-308. | | 3 |
| 42 | How Tilting the Head Interferes With Eye-Hand Coordination: The Role of Gravity in Visuo-Proprioceptive, Cross-Modal Sensory Transformations. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, 788905. | 2.1 | 3 |
| 43 | In Vivo Intracerebral Stereotaxic Injections for Optogenetic Stimulation of Long-Range Inputs in Mouse Brain Slices. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.3 | 2 |
| 44 | Differential Organization of Intrinsic Membrane Properties of Central Vestibular Neurons and Interaction With Network Properties. , 2020, , 273-289. | | 2 |
| 45 | Understanding the Pathophysiology of Congenital Vestibular Disorders: Current Challenges and Future Directions. <i>Frontiers in Neurology</i> , 2021, 12, 708395. | 2.4 | 1 |
| 46 | Editorial: Coding for Spatial Orientation in Humans and Animals: Behavior, Circuits and Neurons. <i>Frontiers in Neural Circuits</i> , 2020, 14, 619073. | 2.8 | 0 |
| 47 | Interpreting pendred syndrome as a foetal hydrops: Clinical and animal model evidence. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2021, 31, 315-321. | 2.0 | 0 |
| 48 | Differential Organization of Intrinsic Membrane Properties of Central Vestibular Neurons and Interaction With Network Properties. , 2020, , . | | 0 |