

# Baptiste Lacoste

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3316355/publications.pdf>

Version: 2024-02-01

39  
papers

3,053  
citations

279798

23  
h-index

302126

39  
g-index

42  
all docs

42  
docs citations

42  
times ranked

5111  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Mfsd2a is critical for the formation and function of the blood–brain barrier. <i>Nature</i> , 2014, 509, 507-511.  | 27.8 | 748       |
| 2  | Blood-Brain Barrier Permeability Is Regulated by Lipid Transport-Dependent Suppression of Caveolae-Mediated Transcytosis. <i>Neuron</i> , 2017, 94, 581-594.e5.  | 8.1  | 401       |
| 3  | Impact of Metabolic Syndrome on Neuroinflammation and the Blood–Brain Barrier. <i>Frontiers in Neuroscience</i> , 2018, 12, 930.   | 2.8  | 210       |
| 4  | Neuronal and Vascular Interactions. <i>Annual Review of Neuroscience</i> , 2015, 38, 25-46.  | 10.7 | 200       |
| 5  | Anatomical and cellular localization of melatonin $MT_1$ and $MT_2$ receptors in the adult rat brain. <i>Journal of Pineal Research</i> , 2015, 58, 397-417.   | 7.4  | 142       |
| 6  | Sensory-Related Neural Activity Regulates the Structure of Vascular Networks in the Cerebral Cortex. <i>Neuron</i> , 2014, 83, 1117-1130.  | 8.1  | 131       |
| 7  | Locus Coeruleus Stimulation Recruits a Broad Cortical Neuronal Network and Increases Cortical Perfusion. <i>Journal of Neuroscience</i> , 2013, 33, 3390-3401.   | 3.6  | 118       |
| 8  | Neuropilin-1 functions as a VEGFR2 co-receptor to guide developmental angiogenesis independent of ligand binding. <i>ELife</i> , 2014, 3, e03720.  | 6.0  | 117       |
| 9  | Promotion of Non-Rapid Eye Movement Sleep and Activation of Reticular Thalamic Neurons by a Novel $MT_2$ Melatonin Receptor Ligand. <i>Journal of Neuroscience</i> , 2011, 31, 18439-18452.            | 3.6  | 113       |
| 10 | Spreading depolarizations trigger caveolin–dependent endothelial transcytosis. <i>Annals of Neurology</i> , 2018, 84, 409-423.   | 5.3  | 76        |
| 11 | Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. <i>Nature Neuroscience</i> , 2020, 23, 1090-1101.  | 14.8 | 70        |
| 12 | Selective melatonin $MT_2$ receptor ligands relieve neuropathic pain through modulation of brainstem descending antinociceptive pathways. <i>Pain</i> , 2015, 156, 305-317.                            | 4.2  | 68        |
| 13 | Engineered Wnt ligands enable blood-brain barrier repair in neurological disorders. <i>Science</i> , 2022, 375, eabm4459.  | 12.6 | 67        |
| 14 | Cognitive and cerebrovascular improvements following kinin B1 receptor blockade in Alzheimer’s disease mice. <i>Journal of Neuroinflammation</i> , 2013, 10, 57.                                       | 7.2  | 63        |
| 15 | Control of cerebrovascular patterning by neural activity during postnatal development. <i>Mechanisms of Development</i> , 2015, 138, 43-49.  | 1.7  | 50        |
| 16 | Neurotherapeutic effects of novel $HO_1$ inhibitors <i>in vitro</i> and in a transgenic mouse model of Alzheimer’s disease. <i>Journal of Neurochemistry</i> , 2014, 131, 778-790.                     | 3.9  | 45        |
| 17 | An antibody for analysis of autophagy induction. <i>Nature Methods</i> , 2020, 17, 232-239.  | 19.0 | 44        |
| 18 | Immunocytochemical evidence for the existence of substance P receptor (NK1) in serotonin neurons of rat and mouse dorsal raphe nucleus. <i>European Journal of Neuroscience</i> , 2006, 23, 2947-2958. | 2.6  | 43        |

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|----|--|------|-----------|
| 19 | Structural and Functional Remodeling of the Brain Vasculature Following Stroke. <i>Frontiers in Physiology</i> , 2020, 11, 948.  | 2.8  | 40        |
| 20 | Dark microglia: Why are they dark?. <i>Communicative and Integrative Biology</i> , 2016, 9, e1230575.  | 1.4  | 35        |
| 21 | From Neurodevelopmental to Neurodegenerative Disorders: The Vascular Continuum. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 749026.   | 3.4  | 34        |
| 22 | Sex differences in developmental patterns of neocortical astroglia: A mouse translome database. <i>Cell Reports</i> , 2022, 38, 110310.  | 6.4  | 33        |
| 23 | Father Absence in the Monogamous California Mouse Impairs Social Behavior and Modifies Dopamine and Glutamate Synapses in the Medial Prefrontal Cortex. <i>Cerebral Cortex</i> , 2015, 25, 1163-1175.  | 2.9  | 30        |
| 24 | Naked mole-rat brown fat thermogenesis is diminished during hypoxia through a rapid decrease in UCP1. <i>Nature Communications</i> , 2021, 12, 6801.   | 12.8 | 29        |
| 25 | The aPKC-CBP Pathway Regulates Post-stroke Neurovascular Remodeling and Functional Recovery. <i>Stem Cell Reports</i> , 2017, 9, 1735-1744.  | 4.8  | 24        |
| 26 | Influence of metabolic syndrome on cerebral perfusion and cognition. <i>Neurobiology of Disease</i> , 2020, 137, 104756.   | 4.4  | 22        |
| 27 | Developmental profile of neuregulin receptor ErbB4 in postnatal rat cerebral cortex and hippocampus. <i>Neuroscience</i> , 2007, 148, 126-139.   | 2.3  | 21        |
| 28 | Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring. <i>Communications Biology</i> , 2022, 5, 26.                                    | 4.4  | 19        |
| 29 | Distinct Basal Metabolism in Three Mouse Models of Neurodevelopmental Disorders. <i>ENeuro</i> , 2021, 8, ENEURO.0292-20.2021.   | 1.9  | 12        |
| 30 | A novel method for identifying a graph-based representation of 3-D microvascular networks from fluorescence microscopy image stacks. <i>Medical Image Analysis</i> , 2015, 20, 208-223.                | 11.6 | 11        |
| 31 | Trafficking of neurokinin $\epsilon$ 1 receptors in serotonin neurons is controlled by substance P within the rat dorsal raphe nucleus. <i>European Journal of Neuroscience</i> , 2009, 29, 2303-2314. | 2.6  | 10        |
| 32 | Joint volumetric extraction and enhancement of vasculature from low-SNR 3-D fluorescence microscopy images. <i>Pattern Recognition</i> , 2017, 63, 710-718.  | 8.1  | 6         |
| 33 | An Exercise Mimetic Approach to Reduce Poststroke Deconditioning and Enhance Stroke Recovery. <i>Neurorehabilitation and Neural Repair</i> , 2021, 35, 471-485.  | 2.9  | 4         |
| 34 | Hyperfiltration in ubiquitin C-terminal hydrolase L1-deleted mice. <i>Clinical Science</i> , 2018, 132, 1453-1470.   | 4.3  | 3         |
| 35 | Laser Doppler Flowmetry to Study the Regulation of Cerebral Blood Flow by G Protein-Coupled Receptors in Rodents. <i>Methods in Molecular Biology</i> , 2019, 1947, 377-387.                           | 0.9  | 3         |
| 36 | Unbiased analysis of mouse brain endothelial networks from two- or three-dimensional fluorescence images. <i>Neurophotonics</i> , 2022, 9, .   | 3.3  | 3         |

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|----|--|-----|-----------|
| 37 | Isolation and functional characterization of primary endothelial cells from mouse cerebral cortex. STAR Protocols, 2021, 2, 101019.                                | 1.2 | 2         |
| 38 | An analysis of the influence of transfer learning when measuring the tortuosity of blood vessels. Computer Methods and Programs in Biomedicine, 2022, 225, 107021. | 4.7 | 2         |
| 39 | Modulation of the Acute Cerebrovascular Response to Ischemic Stroke by Sex Hormones is Dependent on Rho-kinase. FASEB Journal, 2021, 35, .                         | 0.5 | 0         |