# Fabien Gosselet

List of Publications by Year
in descending order

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|---|---|---|---|
| 86 papers | 3,401 citations | 126907 33 h-index | 168389 53 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 5168 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Targeting and Crossing the Blood-Brain Barrier with Extracellular Vesicles. Cells, 2020, 9, 851. | 4.1 | 270 |
| 2 | Resveratrol and Grape Extract-loaded Solid Lipid Nanoparticles for the Treatment of Alzheimerâ€™s Disease. Molecules, 2017, 22, 277. | 3.8 | 222 |
| 3 | PECAM-1 Stabilizes Blood-Brain Barrier Integrity and Favors Paracellular T-Cell Diapedesis Across the Blood-Brain Barrier During Neuroinflammation. Frontiers in Immunology, 2019, 10, 711. | 4.8 | 122 |
| 4 | Apical-to-Basolateral Transport of Amyloid-Î² Peptides through Blood-Brain Barrier Cells is Mediated by the Receptor for Advanced Glycation End-Products and is Restricted by P-Glycoprotein. Journal of Alzheimer's Disease, 2010, 22, 849-859. | 2.6 | 120 |
| 5 | Receptor-mediated PLGA nanoparticles for glioblastoma multiforme treatment. International Journal of Pharmaceutics, 2018, 545, 84-92. | 5.2 | 104 |
| 6 | Cyclodextrins as Emerging Therapeutic Tools in the Treatment of Cholesterol-Associated Vascular and Neurodegenerative Diseases. Molecules, 2016, 21, 1748. | 3.8 | 94 |
| 7 | Physiological Pathway for Low-Density Lipoproteins across the Blood-Brain Barrier: Transcytosis through Brain Capillary Endothelial Cells In Vitro. Endothelium: Journal of Endothelial Cell Research, 2008, 15, 254-264. | 1.7 | 89 |
| 8 | Modelling the Neurovascular Unit and the Blood-Brain Barrier with the Unique Function of Pericytes. Current Neurovascular Research, 2011, 8, 258-269. | 1.1 | 81 |
| 9 | Evaluation of drug-induced neurotoxicity based on metabolomics, proteomics and electrical activity measurements in complementary CNS in vitro models. Toxicology in Vitro, 2015, 30, 138-165. | 2.4 | 75 |
| 10 | Transcriptional profiles of receptors and transporters involved in brain cholesterol homeostasis at the bloodâ€“brain barrier: Use of an in vitro model. Brain Research, 2009, 1249, 34-42. | 2.2 | 73 |
| 11 | Human CD4+ T cell subsets differ in their abilities to cross endothelial and epithelial brain barriers in vitro. Fluids and Barriers of the CNS, 2020, 17, 3. | 5.0 | 64 |
| 12 | Efficient Docosahexaenoic Acid Uptake by the Brain from a Structured Phospholipid. Molecular Neurobiology, 2016, 53, 3205-3215. | 4.0 | 59 |
| 13 | Amyloid-β Peptides, Alzheimer's Disease and the Blood-brain Barrier. Current Alzheimer Research, 2013, 10, 1015-1033. | 1.4 | 59 |
| 14 | Brain Pericytes ABCA1 Expression Mediates Cholesterol Efflux but not Cellular Amyloid-Î² Peptide Accumulation. Journal of Alzheimer's Disease, 2012, 30, 489-503. | 2.6 | 58 |
| 15 | A silicon nanomembrane platform for the visualization of immune cell trafficking across the human bloodâ€“brain barrier under flow. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 395-410. | 4.3 | 57 |
| 16 | HIV Neuroinfection and Alzheimerâ€™s Disease: Similarities and Potential Links?. Frontiers in Cellular Neuroscience, 2018, 12, 307. | 3.7 | 56 |
| 17 | Central nervous system delivery of molecules across the blood-brain barrier. Neurochemistry International, 2021, 144, 104952. | 3.8 | 55 |
| 18 | In vitro discrimination of the role of LRP1 at the BBB cellular level: Focus on brain capillary endothelial cells and brain pericytes. Brain Research, 2015, 1594, 15-26. | 2.2 | 54 |

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|---|---|---|---|
| 19 | ALCAM (CD166) is involved in extravasation of monocytes rather than T cells across the bloodâ€“brain barrier. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 2894-2909. | 4.3 | 53 |
| 20 | BMP2 and BMP6 control p57Kip2 expression and cell growth arrest/terminal differentiation in normal primary human epidermal keratinocytes. Cellular Signalling, 2007, 19, 731-739. | 3.6 | 50 |
| 21 | Topical Intestinal Aminoimidazole Agonists of G-Protein-Coupled Bile Acid Receptor 1 Promote Glucagon Like Peptide-1 Secretion and Improve Glucose Tolerance. Journal of Medicinal Chemistry, 2017, 60, 4185-4211. | 6.4 | 48 |
| 22 | Effects of oxysterols on the bloodâ€“brain barrier: Implications for Alzheimerâ€™s disease. Biochemical and Biophysical Research Communications, 2014, 446, 687-691. | 2.1 | 47 |
| 23 | Advancing human induced pluripotent stem cellâ€derived bloodâ€brain barrier models for studying immune cell interactions. FASEB Journal, 2020, 34, 16693-16715. | 0.5 | 47 |
| 24 | Purpurin modulates Tau-derived VQIVYK fibrillization and ameliorates Alzheimerâ€™s disease-like symptoms in animal model. Cellular and Molecular Life Sciences, 2020, 77, 2795-2813. | 5.4 | 46 |
| 25 | Modulation of Amyloid-Î²1â€“40 Transport by ApoA1 and ApoJ Across an in vitro Model of the Blood-Brain Barrier. Journal of Alzheimer's Disease, 2016, 53, 677-691. | 2.6 | 45 |
| 26 | UVB-induced mutations in human key gatekeeper genes governing signalling pathways and consequences for skin tumourigenesis. Photochemical and Photobiological Sciences, 2003, 2, 825. | 2.9 | 44 |
| 27 | ST6GALNAC5 Expression Decreases the Interactions between Breast Cancer Cells and the Human Blood-Brain Barrier. International Journal of Molecular Sciences, 2016, 17, 1309. | 4.1 | 44 |
| 28 | Bexarotene Promotes Cholesterol Efflux andÂRestricts Apical-to-Basolateral Transport of Amyloid-Î² Peptides in an In Vitro Model of the Human Blood-Brain Barrier. Journal of Alzheimer's Disease, 2015, 48, 849-862. | 2.6 | 43 |
| 29 | Ketone Bodies Promote Amyloid-Î²1â€“40 Clearance in a Human in Vitro Bloodâ€“Brain Barrier Model. International Journal of Molecular Sciences, 2020, 21, 934. | 4.1 | 42 |
| 30 | Oxysterols decrease apical-to-basolateral transport of AÃŸ peptides via an ABCB1-mediated process in an in vitro Blood-brain barrier model constituted of bovine brain capillary endothelial cells. Brain Research, 2013, 1517, 1-15. | 2.2 | 40 |
| 31 | Zika Virus Infection Promotes Local Inflammation, Cell Adhesion Molecule Upregulation, and Leukocyte Recruitment at the Blood-Brain Barrier. MBio, 2020, 11, . | 4.1 | 40 |
| 32 | Role of ABCA7 in Human Health and in Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 4603. | 4.1 | 40 |
| 33 | Adapting coculture in vitro models of the bloodâ€“brain barrier for use in cancer research: maintaining an appropriate endothelial monolayer for the assessment of transendothelial migration. Laboratory Investigation, 2016, 96, 588-598. | 3.7 | 38 |
| 34 | Mimicking brain tissue binding in an in vitro model of the blood-brain barrier illustrates differences between in vitro and in vivo methods for assessing the rate of brain penetration. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 127, 453-461. | 4.3 | 37 |
| 35 | Nonionotropic Action of Endothelial NMDA Receptors on Bloodâ€“Brain Barrier Permeability via Rho/ROCK-Mediated Phosphorylation of Myosin. Journal of Neuroscience, 2020, 40, 1778-1787. | 3.6 | 36 |
| 36 | In vitro bloodâ€“brain barrier permeability predictions for GABAA receptor modulating piperine analogs. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 103, 118-126. | 4.3 | 35 |

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|---|---|---|---|
| 37 | Homology Modeling of the Human P-glycoprotein (ABCB1) and Insights into Ligand Binding through Molecular Docking Studies. International Journal of Molecular Sciences, 2020, 21, 4058. | 4.1 | 35 |
| 38 | Transient bloodâ€“brain barrier disruption is induced by low pulsed electrical fields in vitro: an analysis of permeability and trans-endothelial electric resistivity. Drug Delivery, 2019, 26, 459-469. | 5.7 | 34 |
| 39 | Caspase-1 has a critical role in blood-brain barrier injury and its inhibition contributes to multifaceted repair. Journal of Neuroinflammation, 2020, 17, 267. | 7.2 | 34 |
| 40 | ABCA7 Downregulation Modifies Cellular Cholesterol Homeostasis and Decreases Amyloid-Î² Peptide Efflux in an in vitro Model of the Blood-Brain Barrier. Journal of Alzheimer's Disease, 2018, 64, 1195-1211. | 2.6 | 33 |
| 41 | Serum-derived factors of breast cancer patients with brain metastases alter permeability of a human bloodâ€“brain barrier model. Fluids and Barriers of the CNS, 2020, 17, 31. | 5.0 | 33 |
| 42 | Contribution of brain pericytes in bloodâ€“brain barrier formation and maintenance: a transcriptomic study of cocultured human endothelial cells derived from hematopoietic stem cells. Fluids and Barriers of the CNS, 2020, 17, 48. | 5.0 | 32 |
| 43 | Flow induces barrier and glycocalyx-related genes and negative surface charge in a lab-on-a-chip human blood-brain barrier model. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2201-2215. | 4.3 | 30 |
| 44 | Truncated thioredoxin (Trxâ€80) promotes proâ€inflammatory macrophages of the M1 phenotype and enhances atherosclerosis. Journal of Cellular Physiology, 2013, 228, 1577-1583. | 4.1 | 29 |
| 45 | GM1 Oligosaccharide Crosses the Human Bloodâ€“Brain Barrier In Vitro by a Paracellular Route. International Journal of Molecular Sciences, 2020, 21, 2858. | 4.1 | 29 |
| 46 | Î²-Cyclodextrins Decrease Cholesterol Release and ABC-Associated Transporter Expression in Smooth Muscle Cells and Aortic Endothelial Cells. Frontiers in Physiology, 2016, 7, 185. | 2.8 | 28 |
| 47 | Brain pericytes from stress-susceptible pigs increase blood-brain barrier permeability in vitro. Fluids and Barriers of the CNS, 2012, 9, 11. | 5.0 | 27 |
| 48 | Development of a human in vitro bloodâ€“brain tumor barrier model of diffuse intrinsic pontine glioma to better understand the chemoresistance. Fluids and Barriers of the CNS, 2020, 17, 37. | 5.0 | 27 |
| 49 | Selection of a Relevant In Vitro Blood-Brain Barrier Model to Investigate Pro-Metastatic Features of Human Breast Cancer Cell Lines. PLoS ONE, 2016, 11, e0151155. | 2.5 | 26 |
| 50 | SARS-CoV-2 Poorly Replicates in Cells of the Human Blood-Brain Barrier Without Associated Deleterious Effects. Frontiers in Immunology, 2021, 12, 697329. | 4.8 | 26 |
| 51 | A differential proteomic approach identifies structural and functional components that contribute to the differentiation of brain capillary endothelial cells. Journal of Proteomics, 2011, 75, 628-641. | 2.4 | 25 |
| 52 | Blood-Brain Barrier Cellular Responses Toward Organophosphates: Natural Compensatory Processes and Exogenous Interventions to Rescue Barrier Properties. Frontiers in Cellular Neuroscience, 2018, 12, 359. | 3.7 | 23 |
| 53 | PLGA protein nanocarriers with tailor-made fluorescence/MRI/PET imaging modalities. Nanoscale, 2020, 12, 4988-5002. | 5.6 | 22 |
| 54 | Differential neurovirulence of Usutu virus lineages in mice and neuronal cells. Journal of Neuroinflammation, 2021, 18, 11. | 7.2 | 21 |

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| 55 | Discovery of pyrazolo-thieno[3,2-d]pyrimidinylamino-phenyl acetamides as type-II pan-tropomyosin receptor kinase (TRK) inhibitors: Design, synthesis, and biological evaluation. European Journal of Medicinal Chemistry, 2021, 216, 113265. | 5.5 | 21 |
| 56 | Study of Usutu virus neuropathogenicity in mice and human cellular models. PLoS Neglected Tropical Diseases, 2020, 14, e0008223. | 3.0 | 20 |
| 57 | Sodium Transporters Are Involved in Lithium Influx in Brain Endothelial Cells. Molecular Pharmaceutics, 2018, 15, 2528-2538. | 4.6 | 19 |
| 58 | Antimalarial Drug Discovery: From Quinine to the Most Recent Promising Clinical Drug Candidates. Current Medicinal Chemistry, 2022, 29, 3326-3365. | 2.4 | 18 |
| 59 | Potential neurotoxicity of titanium implants: Prospective, in-vivo and in-vitro study. Biomaterials, 2021, 276, 121039. | 11.4 | 18 |
| 60 | The Effect of Sodium Bicarbonate, a Beneficial Adjuvant Molecule in Cystic Fibrosis, on Bronchial Epithelial Cells Expressing a Wild-Type or Mutant CFTR Channel. International Journal of Molecular Sciences, 2020, 21, 4024. | 4.1 | 17 |
| 61 | Pharmacokinetics and In Vitro Blood-Brain Barrier Screening of the Plant-Derived Alkaloid Tryptanthrin. Planta Medica, 2016, 82, 1021-1029. | 1.3 | 16 |
| 62 | The Bloodâ€“Brain Barrier, an Evolving Concept Based on Technological Advances and Cellâ€“Cell Communications. Cells, 2022, 11, 133. | 4.1 | 16 |
| 63 | Naphthoquinoneâ€“Dopamine Hybrids Inhibit Î±â€Synuclein Aggregation, Disrupt Preformed Fibrils, and Attenuate Aggregateâ€Induced Toxicity. Chemistry - A European Journal, 2020, 26, 16486-16496. | 3.3 | 15 |
| 64 | Endothelial Iron Homeostasis Regulates Blood-Brain Barrier Integrity via the HIF2Î±â€”Ve-Cadherin Pathway. Pharmaceutics, 2021, 13, 311. | 4.5 | 15 |
| 65 | Transport study of interleukin-1 inhibitors using a human in vitro model of the blood-brain barrier. Brain, Behavior, & Immunity - Health, 2021, 16, 100307. | 2.5 | 14 |
| 66 | Food-Derived Hemorphins Cross Intestinal and Bloodâ€“Brain Barriers In Vitro. Frontiers in Endocrinology, 2018, 9, 159. | 3.5 | 13 |
| 67 | New Lipidyl-Cyclodextrins Obtained by Ring Opening of Methyl Oleate Epoxide Using Ball Milling. Biomolecules, 2020, 10, 339. | 4.0 | 13 |
| 68 | Bloodâ€“Brain Barrier Proteomics: Towards the Understanding of Neurodegenerative Diseases. Archives of Medical Research, 2014, 45, 730-737. | 3.3 | 12 |
| 69 | Efficacy Assessment of an Uncharged Reactivator of NOP-Inhibited Acetylcholinesterase Based on Tetrahydroacridine Pyridine-Aldoxime Hybrid in Mouse Compared to Pralidoxime. Biomolecules, 2020, 10, 858. | 4.0 | 12 |
| 70 | Miniaturization and Automation of a Human In Vitro Bloodâ€“Brain Barrier Model for the High-Throughput Screening of Compounds in the Early Stage of Drug Discovery. Pharmaceutics, 2021, 13, 892. | 4.5 | 12 |
| 71 | Disease-Induced Alterations in Brain Drug Transporters in Animal Models of Alzheimerâ€™s Disease. Pharmaceutical Research, 2017, 34, 2652-2662. | 3.5 | 11 |
| 72 | Transport Studies Using Blood-Brain Barrier In Vitro Models: A Critical Review and Guidelines. Handbook of Experimental Pharmacology, 2020, , 187-204. | 1.8 | 11 |

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|---|---|---|---|
| 73 | A Miniaturized Pump Out Method for Characterizing Molecule Interaction with ABC Transporters. International Journal of Molecular Sciences, 2019, 20, 5529. | 4.1 | 10 |
| 74 | Evaluation of a human iPSC-derived BBB model for repeated dose toxicity testing with cyclosporine A as model compound. Toxicology in Vitro, 2021, 73, 105112. | 2.4 | 10 |
| 75 | Oxysterols and the NeuroVascular Unit (NVU): A far true love with bright and dark sides. Journal of Steroid Biochemistry and Molecular Biology, 2019, 191, 105368. | 2.5 | 9 |
| 76 | Beyond the Rule of 5: Impact of PEGylation with Various Polymer Sizes on Pharmacokinetic Properties, Structureâ€“Properties Relationships of mPEGylated Small Agonists of TGR5 Receptor. Journal of Medicinal Chemistry, 2021, 64, 1593-1610. | 6.4 | 9 |
| 77 | A New Class of Bi- and Trifunctional Sugar Oximes as Antidotes against Organophosphorus Poisoning. Journal of Medicinal Chemistry, 2022, 65, 4649-4666. | 6.4 | 9 |
| 78 | Interaction of surfactant coated PLGA nanoparticles with in vitro human brain-like endothelial cells. International Journal of Pharmaceutics, 2022, 621, 121780. | 5.2 | 6 |
| 79 | Time-Dependent Internalization of Polymer-Coated Silica Nanoparticles in Brain Endothelial Cells and Morphological and Functional Effects on the Blood-Brain Barrier. International Journal of Molecular Sciences, 2021, 22, 1657. | 4.1 | 5 |
| 80 | First step to the improvement of the blood brain barrier passage of atazanavir encapsulated in sustainable bioorganic vesicles. International Journal of Pharmaceutics, 2020, 587, 119604. | 5.2 | 4 |
| 81 | Chemoselective Hydrogenation of 6â€Alkynylâ€3â€fluoroâ€2â€pyridinaldoximes: Access to Firstâ€inâ€Class 6â€Alkylâ€3â€Fluoroâ€2â€pyridinaldoxime Scaffolds as New Reactivators of Sarinâ€inhibited Human Acetylcholinesterase with Increased Bloodâ€“Brain Barrier Permeability. Chemistry - A European Journal, 2020, 26, 15035-15044. | 3.3 | 4 |
| 82 | The Mysterious Link between Cholesterol and Alzheimer?s Disease: Is the Blood-Brain Barrier a Suspect?. , 2011, 01, . | | 3 |
| 83 | A High Output Method to Isolate Cerebral Pericytes from Mouse. Journal of Visualized Experiments, 2020, , . | 0.3 | 2 |
| 84 | O3-06-06: Modulation of beta-amyloid(1-40) peptide and apoa1/apoj transport across a blood-brain barrier model. , 2015, 11, P232-P232. | | 0 |
| 85 | Exploring in vitro the potential effects of repeated drug treatment on the distribution of other xenobiotics at the human blood-brain barrier (BBB). Toxicology Letters, 2018, 295, S68. | 0.8 | 0 |
| 86 | Challenges and opportunities in the use of transcriptomic characterization of human iPSC-derived BBB models. Toxicology in Vitro, 2022, 84, 105424. | 2.4 | 0 |