Guillaume Pavlovic

List of Publications by Year
in descending order

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40 papers	4,719 citations	279487 23 h-index	276539 41 g-index
46 all docs	46 docs citations	46 times ranked	9684 citing authors

#	Article	IF	Citations
1	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	13.7	1,001
2	Distinct fibroblast lineages determine dermal architecture in skin development and repair. Nature, 2013, 504, 277-281.	13.7	946
3	Conjugative transposons: the tip of the iceberg. Molecular Microbiology, 2002, 46, 601-610.	1.2	382
4	The mammalian gene function resource: the international knockout mouse consortium. Mammalian Genome, 2012, 23, 580-586.	1.0	292
5	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. Nature Genetics, 2017, 49, 1231-1238.	9.4	216
6	Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475.	5.8	200
7	Translation of Expanded CGG Repeats into FMRpolyG Is Pathogenic and May Contribute to Fragile X Tremor Ataxia Syndrome. Neuron, 2017, 93, 331-347.	3.8	194
8	The ICESt1 element of Streptococcus thermophilus belongs to a large family of integrative and conjugative elements that exchange modules and change their specificity of integration. Plasmid, 2002, 48, 77-97.	0.4	137
9	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. Nature Genetics, 2015, 47, 969-978.	9.4	137
10	Mouse large-scale phenotyping initiatives: overview of the European Mouse Disease Clinic (EUMODIC) and of the Wellcome Trust Sanger Institute Mouse Genetics Project. Mammalian Genome, 2012, 23, 600-610.	1.0	133
11	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886.	5.8	116
12	PCSK9 is not involved in the degradation of LDL receptors and BACE1 in the adult mouse brain. Journal of Lipid Research, 2010, 51, 2611-2618.	2.0	82
13	Evolution of genomic islands by deletion and tandem accretion by site-specific recombination: ICESt1-related elements from Streptococcus thermophilus. Microbiology (United Kingdom), 2004, 150, 759-774.	0.7	75
14	Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655.	5.8	64
15	Absence of TI-VAMP/Vamp7 Leads to Increased Anxiety in Mice. Journal of Neuroscience, 2012, 32, 1962-1968.	1.7	63
16	Efficient and rapid generation of large genomic variants in rats and mice using CRISMERE. Scientific Reports, 2017, 7, 43331.	1.6	62
17	A resource of targeted mutant mouse lines for 5,061 genes. Nature Genetics, 2021, 53, 416-419.	9.4	60
18	Conjugative Transfer of the Integrative Conjugative Elements ICESt1 and ICESt3 from Streptococcus thermophilus. Journal of Bacteriology, 2009, 191, 2764-2775.	1.0	55

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19	Highlyâ€efficient, fluorescent, locus directed cre and FlpO deleter mice on a pure C57BL/6N genetic background. Genesis, 2012, 50, 482-489.	0.8	55
20	Modeling human disease in rodents by CRISPR/Cas9 genome editing. Mammalian Genome, 2017, 28, 291-301.	1.0	55
21	Variability in Genome Editing Outcomes: Challenges for Research Reproducibility and Clinical Safety. Molecular Therapy, 2020, 28, 1422-1431.	3.7	34
22	Skin Progenitor Cells Contribute to Bleomycinâ€Induced Skin Fibrosis. Arthritis and Rheumatology, 2014, 66, 707-713.	2.9	32
23	Aneuploidy screening of embryonic stem cell clones by metaphase karyotyping and droplet digital polymerase chain reaction. BMC Cell Biology, 2016, 17, 30.	3.0	28
24	Ketohexokinase knockout mice, a model for essential fructosuria, exhibit altered fructose metabolism and are protected from diet-induced metabolic defects. American Journal of Physiology - Endocrinology and Metabolism, 2018, 315, E386-E393.	1.8	28
25	Physiological Expression of AMPKÎ³2 Mutation Causes Wolff-Parkinson-White Syndrome and Induces Kidney Injury in Mice. Journal of Biological Chemistry, 2016, 291, 23428-23439.	1.6	25
26	E4F1-mediated control of pyruvate dehydrogenase activity is essential for skin homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11004-11009.	3.3	22
27	Modeling Down syndrome in animals from the early stage to the 4.0 models and next. Progress in Brain Research, 2020, 251, 91-143.	0.9	22
28	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
29	Optimizing PCR for Mouse Genotyping: Recommendations for Reliable, Rapid, Cost Effective, Robust and Adaptable to Highâ€Throughput Genotyping Protocol for Any Type of Mutation. Current Protocols in Mouse Biology, 2019, 9, e65.	1.2	20
30	Dyrk1a gene dosage in glutamatergic neurons has key effects in cognitive deficits observed in mouse models of MRD7 and Down syndrome. PLoS Genetics, 2021, 17, e1009777.	1.5	20
31	Atp6ap2 ablation in adult mice impairs viability through multiple organ deficiencies. Scientific Reports, 2017, 7, 9618.	1.6	19
32	Nox4 genetic inhibition in experimental hypertension and metabolic syndrome. Archives of Cardiovascular Diseases, 2018, 111, 41-52.	0.7	19
33	Reliable and robust droplet digital PCR (ddPCR) and RT-ddPCR protocols for mouse studies. Methods, 2021, 191, 95-106.	1.9	19
34	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190.	1.5	19
35	TUBG1 missense variants underlying cortical malformations disrupt neuronal locomotion and microtubule dynamics but not neurogenesis. Nature Communications, 2019, 10, 2129.	5.8	17
36	A new mouse model of ARX dup24 recapitulates the patientsâ€™ behavioral and fine motor alterations. Human Molecular Genetics, 2018, 27, 2138-2153.	1.4	16

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37	Droplet digital PCR or quantitative PCR for in-depth genomic and functional validation of genetically altered rodents. Methods, 2021, 191, 107-119.	1.9	14
38	Genome wide conditional mouse knockout resources. Drug Discovery Today: Disease Models, 2016, 20, 3-12.	1.2	3
39	Introduction to mammalian genome special issue: the microbiome in human health and disease. Mammalian Genome, 2021, 32, 205-205.	1.0	2
40	Characterization and chimeric structure of a family of integrative and potentially conjugative elements from Streptococcus thermophilus. Dairy Science and Technology, 2001, 81, 57-64.	0.9	2