

## INFRAFRONTIER Bibliography - INFRAFRONTIER

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Na/K-ATPase signaling tonically inhibits sodium reabsorption in the renal proximal tubule.	36856735
Mertk-expressing microglia influence oligodendrogenesis and myelin modelling in the CNS.	37926818
Dissecting the autism-associated 16p11.2 locus identifies multiple drivers in neuroanatomical phenotypes and unveils a male-specific role for the major vault protein.	37968726
Generation of a C57BL/6J mouse strain expressing the CD45.1 epitope to improve hematopoietic stem cell engraftment and adoptive cell transfer experiments.	38017180
Bispecific PD1-IL2v and anti-PD-L1 break tumor immunity resistance by enhancing stem-like tumor-reactive CD8 <sup>+</sup> T cells and reprogramming macrophages.	36630914
Intrinsic factors and CD1d1 but not CD1d2 expression levels control invariant natural killer T cell subset differentiation.	38040679
DDR1 contributes to kidney inflammation and fibrosis by promoting the phosphorylation of BCR and STAT3.	34941574
Restriction of extracellular lipids renders pancreatic cancer dependent on autophagy.	34998392
Functional visualization of NK cell-mediated killing of metastatic single tumor cells.	35113018
PAD-2-mediated citrullination of nucleophosmin provides an effective target for tumor immunotherapy.	35140112
Prediabetes blunts DPP4 genetic control of postprandial glycaemia and insulin secretion.	35190847
Lymph node fibroblastic reticular cells regulate differentiation and function of CD4 T cells via CD25.	35315876
Netrin-1 Overexpression Induces Polycystic Kidney Disease: A Novel Mechanism Contributing to Cystogenesis in Autosomal Dominant Polycystic Kidney Disease.	35358475
The purinergic P2Y14 receptor links hepatocyte death to hepatic stellate cell activation and fibrogenesis in the liver.	35385339
Vaccine Can Induce CD4-Mediated Responses to Homocitrullinated Peptides <i>via</i> Multiple HLA-Types and Confer Anti-Tumor Immunity.	35464453
Functional genomics uncovers the transcription factor BNC2 as required for myofibroblastic activation in fibrosis.	36088459
The alarmin interleukin-1 $\alpha$ triggers secondary degeneration through reactive astrocytes and endothelium after spinal cord injury.	36184639
Opposing roles of hepatic stellate cell subpopulations in hepatocarcinogenesis.	36198802
Macrophage Sprouty4 deficiency diminishes sepsis-induced acute lung injury in mice.	36334381
Citrullinated glucose-regulated protein 78 is a candidate target for melanoma immunotherapy.	36544781
Early life oxytocin treatment improves thermo-sensory reactivity and maternal behavior in neonates lacking the autism-associated gene Magel2.	35396500
VHs as tools for therapeutic protein delivery to the central nervous system.	36192747
Monitoring autochthonous lung tumors induced by somatic CRISPR gene editing in mice using a secreted luciferase.	36192757
Correction: Tagger-A Swiss army knife for multiomics to dissect cell type-specific mechanisms of gene expression in mice.	36318742
Sleep inhibition induced by amyloid- $\beta$ oligomers is mediated by the cellular prion protein.	32902030
Galanin receptor 3 attenuates inflammation and influences the gut microbiota in an experimental murine colitis model.	33436730
Mutation of the TRPM3 cation channel underlies progressive cataract development and lens calcification associated with pro-fibrotic and immune cell responses.	33484482
Activation of Src family kinase ameliorates secretory trafficking in mutant prion protein cells.	33662396
Calcineurin inhibitors suppress acute graft-versus-host disease via NFAT-independent inhibition of T cell receptor signaling.	33822776
Involvement of Neuropeptide Galanin Receptors 2 and 3 in Learning, Memory and Anxiety in Aging Mice.	33915732
Promotion of cholangiocarcinoma growth by diverse cancer-associated fibroblast subpopulations.	33930309
Cell influx and contractile actomyosin force drive mammary bud growth and invagination.	34042944

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The effects of Cstb duplication on APP/amyloid-β pathology and cathepsin B activity in a mouse model.	34292972
Homocitrullination of lysine residues mediated by myeloid-derived suppressor cells in the tumor environment is a target for cancer immunotherapy.	34321274
Microglial-glucocorticoid receptor depletion alters the response of hippocampal microglia and neurons in a chronic unpredictable mild stress paradigm in female mice.	34343616
Doxycycline rescues recognition memory and circadian motor rhythmicity but does not prevent terminal disease in fatal familial insomnia mice.	34358614
Cdc42 is required for male germline niche development in mice.	34407418
Pharmacological inhibition of arachidonate 12-lipoxygenase ameliorates myocardial ischemia-reperfusion injury in multiple species.	34536344
Citrullinated Epitopes Identified on Tumour MHC Class II by Peptide Elution Stimulate Both Regulatory and Th1 Responses and Require Careful Selection for Optimal Anti-Tumour Responses.	34858415
Proximal tubular epithelial insulin receptor mediates high-fat diet-induced kidney injury.	33400689
Targeting the RHOA pathway improves learning and memory in adult Kctd13 and 16p11.2 deletion mouse models.	33436060
IgH 3' regulatory region increases ectopic class switch recombination.	33556079
The impact of oxytocin on neurite outgrowth and synaptic proteins in Magel2-deficient mice.	33609001
Multi-influential genetic interactions alter behaviour and cognition through six main biological cascades in Down syndrome mouse models.	33693642
Hnf1b haploinsufficiency differentially affects developmental target genes in a new renal cysts and diabetes mouse model.	33737325
Mitochondrial targeted meganuclease as a platform to eliminate mutant mtDNA in vivo.	34050192
Dendritic Cells Require TMEM176A/B Ion Channels for Optimal MHC Class II Antigen Presentation to Naive CD4 <sup>+</sup> T Cells.	34233909
Light affects behavioral despair involving the clock gene Period 1.	34237069
Oxytocin administration in neonates shapes hippocampal circuitry and restores social behavior in a mouse model of autism.	34290367
Activity of the mouse Notch ligand DLL1 is sensitive to C-terminal tagging in vivo.	34583743
Major role of MT <sub>2</sub> receptors in the beneficial effect of melatonin on long-term recognition memory in C57BL/6J male mice.	34634697
<i>Ankrd31</i> in Sperm and Epididymal Integrity.	34820371
Preventing Calpain Externalization by Reducing ABCA1 Activity with Probenecid Limits Melanoma Angiogenesis and Development.	31425704
Cumulative inactivation of Nell-1 in Wnt1 expressing cell lineages results in craniofacial skeletal hypoplasia and postnatal hydrocephalus.	31582804
LRIT3 is Required for Nyctalopin Expression and Normal ON and OFF Pathway Signaling in the Retina.	31959619
The ACSL3-LPIAT1 signaling drives prostaglandin synthesis in non-small cell lung cancer.	32034305
Proinflammatory P2Y14 receptor inhibition protects against ischemic acute kidney injury in mice.	32287042
Combination vaccine based on citrullinated vimentin and enolase peptides induces potent CD4-mediated anti-tumor responses.	32561639
BRG1 Is Dispensable for Sertoli Cell Development and Functions in Mice.	32575410
Mutant prion proteins increase calcium permeability of AMPA receptors, exacerbating excitotoxicity.	32673372
Discoidin Domain Receptor 1 is a therapeutic target for neurodegenerative diseases.	32776088
Complement Properdin Determines Disease Activity in MRL- <i>lpr</i> Mice.	32867176
ACSL3-PAI-1 signaling axis mediates tumor-stroma cross-talk promoting pancreatic cancer progression.	33127675
Characterization of the developmental landscape of murine RORγt+ iNKT cells.	31565740
Inactivation of Mdm2 restores apoptosis proficiency of cooperativity mutant p53 in vivo.	31749402
Myeloid Cells Orchestrate Systemic Immunosuppression, Impairing the Efficacy of Immunotherapy against HPV <sup>+</sup> Cancers.	31771984

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<i>Slc25a17</i> Gene Trapped Mice: PMP34 Plays a Role in the Peroxisomal Degradation of Phytanic and Pristanic Acid.	32266253
Intestinal epithelial ablation of Pit-2/ <i>Slc20a2</i> in mice leads to sustained elevation of vitamin D <sup>3</sup> upon dietary restriction of phosphate.	32564464
Studying the biology of cytotoxic T lymphocytes in vivo with a fluorescent granzyme B-mTFP knock-in mouse.	32696761
Phosphorylation Control of p53 DNA-Binding Cooperativity Balances Tumorigenesis and Aging.	32873634
ARID1A loss in adult hepatocytes activates $\beta$ -catenin-mediated erythropoietin transcription.	33084574
IL-17-producing ST2 <sup>+</sup> group 2 innate lymphoid cells play a pathogenic role in lung inflammation.	29625134
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Cellular prion protein neither binds to alpha-synuclein oligomers nor mediates their detrimental effects.	30601948
Dysregulated Lung Commensal Bacteria Drive Interleukin-17B Production to Promote Pulmonary Fibrosis through Their Outer Membrane Vesicles.	30824326
Foxp3 <sup>+</sup> Regulatory and Conventional CD4 <sup>+</sup> T Cells Display Similarly High Frequencies of Alloantigen-Reactive Cells.	30941146
T cell repertoire to citrullinated self-peptides in healthy humans is not confined to the HLA-DR SE alleles; Targeting of citrullinated self-peptides presented by HLA-DP4 for tumour therapy.	31069134
Tpl2 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.	31481966
Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity.	30006609
Microglia lacking a peroxisomal $\beta$ -oxidation enzyme chronically alter their inflammatory profile without evoking neuronal and behavioral deficits.	30866963
MT1 and MT2 melatonin receptors are expressed in nonoverlapping neuronal populations.	30937953
Modulation of mtDNA copy number ameliorates the pathological consequences of a heteroplasmic mtDNA mutation in the mouse.	30949583
The neuroanatomy of <i>Eml1</i> knockout mice, a model of subcortical heterotopia.	31173351
A transgenic mouse model reproduces human hereditary systemic amyloidosis.	31200944
Role of the captured retroviral envelope <i>syncytin-B</i> gene in the fusion of osteoclast and giant cell precursors and in bone resorption, analyzed <i>ex vivo</i> and <i>in vivo</i> in <i>syncytin-B</i> knockout mice.	31360740
Tagger-A Swiss army knife for multiomics to dissect cell type-specific mechanisms of gene expression in mice.	31393866
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Lack of Galanin Receptor 3 Alleviates Psoriasis by Altering Vascularization, Immune Cell Infiltration, and Cytokine Expression.	28844939
Myeloid cell plasticity in the evolution of central nervous system autoimmunity.	29283442
A Trib2-p38 axis controls myeloid leukaemia cell cycle and stress response signalling.	29670085
Dipeptidyl Peptidase-4 Is a Pro-Recovery Mediator During Acute Hepatotoxic Damage and Mirrors Severe Shifts in Kupffer Cells.	30202822
Endothelial AMP-Activated Kinase $\alpha$ 1 Phosphorylates eNOS on Thr495 and Decreases Endothelial NO Formation.	30217073
Prions activate a p38 MAPK synaptotoxic signaling pathway.	30235355
Over-expression of calpastatin attenuates myocardial injury following myocardial infarction by inhibiting endoplasmic reticulum stress.	30416776
Insulin-like Growth Factor-1 Receptor Dictates Beneficial Effects of Treadmill Training by Regulating Survival and Migration of Neural Stem Cell Grafts in the Injured Spinal Cord.	30636901
Lipid homeostasis and inflammatory activation are disturbed in classically activated macrophages with peroxisomal $\beta$ -oxidation deficiency.	28940384
Loss of $\beta$ Epithelial Sodium Channel Function in Meibomian Glands Produces	29107074

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Pseudohypoaldosteronism 1-Like Ocular Disease in Mice.	
Autonomous Purkinje cell axonal dystrophy causes ataxia in peroxisomal multifunctional protein-2 deficiency.	29341299
Trib1 Is Overexpressed in Systemic Lupus Erythematosus, While It Regulates Immunoglobulin Production in Murine B Cells.	29599769
A novel histochemistry assay to assess and quantify focal cytochrome c oxidase deficiency.	29660116
Neuronal Dysfunction and Behavioral Abnormalities Are Evoked by Neural Cells and Aggravated by Inflammatory Microglia in Peroxisomal $\beta$ -Oxidation Deficiency.	29892213
The histidine triad nucleotide-binding protein 2 (HINT-2) positively regulates hepatocellular energy metabolism.	29913563
New in vitro model derived from brain-specific Mut <sup>-/-</sup> mice confirms cerebral ammonium accumulation in methylmalonic aciduria.	29934063
Astrocyte-derived Jagged-1 mitigates deleterious Notch signaling in amyotrophic lateral sclerosis.	30010003
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Phospholipid scramblase 1 amplifies anaphylactic reactions in vivo.	28282470
The N-terminus of the prion protein is a toxic effector regulated by the C-terminus.	28527237
Anti-nociceptive action of peripheral mu-opioid receptors by G-beta-gamma protein-mediated inhibition of TRPM3 channels.	28826482
Inhibition of IL-1 $\beta$ Signaling Normalizes NMDA-Dependent Neurotransmission and Reduces Seizure Susceptibility in a Mouse Model of Creutzfeldt-Jakob Disease.	28924012
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The Lrp4R1170Q Homozygous Knock-In Mouse Recapitulates the Bone Phenotype of Sclerosteosis in Humans.	28477420
Pyk2 modulates hippocampal excitatory synapses and contributes to cognitive deficits in a Huntington's disease model.	28555636
Mouse models of 17q21.31 microdeletion and microduplication syndromes highlight the importance of Kansl1 for cognition.	28704368
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Rodent models in Down syndrome research: impact and future opportunities.	28993310
NOX4-dependent neuronal autotoxicity and BBB breakdown explain the superior sensitivity of the brain to ischemic damage.	29087944
Mitochondrial Calpain-1 Disrupts ATP Synthase and Induces Superoxide Generation in Type 1 Diabetic Hearts: A Novel Mechanism Contributing to Diabetic Cardiomyopathy.	26470784
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Lack of Galanin 3 Receptor Aggravates Murine Autoimmune Arthritis.	26941032
Galanin 3 receptor-deficient mice show no alteration in the oxazolone-induced contact dermatitis phenotype.	27121264
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Fatty Acid Oxidation Mediated by Acyl-CoA Synthetase Long Chain 3 Is Required for Mutant KRAS Lung Tumorigenesis.	27477280
A novel form of capsaicin-modified amygdala LTD mediated by TRPM1.	27633915
Anxiety, Stress, and Fear Response in Mice With Reduced Endocannabinoid Levels.	25981172
Calpains Released by T Lymphocytes Cleave TLR2 To Control IL-17 Expression.	26608921
Deletion of the miR-379/miR-410 gene cluster at the imprinted Dlk1-Dio3 locus enhances anxiety-related behaviour.	26744330
Nutritional stress exacerbates hepatic steatosis induced by deletion of the histidine nucleotide-binding (Hint2) mitochondrial protein.	26767982
Loss of the histone chaperone ASF1B reduces female reproductive capacity in mice.	26850882
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LGI1 acts presynaptically to regulate excitatory synaptic transmission during early postnatal development.	26878798
Deciphering the importance of the palindromic architecture of the immunoglobulin heavy-chain 3' regulatory region.	26883548
The Role of Hypothalamic NF- $\kappa$ B Signaling in the Response of the HPT-Axis to Acute Inflammation in Female Mice.	27187176
Generation of a Double KO Mouse by Simultaneous Targeting of the Neighboring Genes Tmem176a and Tmem176b Using CRISPR/Cas9: Key Steps from Design to Genotyping.	27234594
Early-onset Purkinje cell dysfunction underlies cerebellar ataxia in peroxisomal multifunctional protein-2 deficiency.	27353294
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Genetic Evidence That Captured Retroviral Envelope syncytins Contribute to Myoblast Fusion and Muscle Sexual Dimorphism in Mice.	27589388
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Calpain-1 induces endoplasmic reticulum stress in promoting cardiomyocyte apoptosis following hypoxia/reoxygenation.	25660447
Transgenic fatal familial insomnia mice indicate prion infectivity-independent mechanisms of pathogenesis and phenotypic expression of disease.	25880443
Deletion of capn4 Protects the Heart Against Endotoxemic Injury by Preventing ATP Synthase Disruption and Inhibiting Mitochondrial Superoxide Generation.	26246018
Farm dust and endotoxin protect against allergy through A20 induction in lung epithelial cells.	26339029
Brown Adipose Tissue Thermogenic Capacity Is Regulated by Elovl6.	26628376
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Cardiac-specific ablation of synapse-associated protein SAP97 in mice decreases potassium currents but not sodium current.	25447080
Calcium dynamics in astrocyte processes during neurovascular coupling.	25531572
An Early Postnatal Oxytocin Treatment Prevents Social and Learning Deficits in Adult Mice Deficient for Magel2, a Gene Involved in Prader-Willi Syndrome and Autism.	25599930
Dosage of the Abcg1-U2af1 region modifies locomotor and cognitive deficits observed in the Tc1 mouse model of Down syndrome.	25706610
IL-23-mediated mononuclear phagocyte crosstalk protects mice from Citrobacter rodentium-induced colon immunopathology.	25761673
Opposite phenotypes of muscle strength and locomotor function in mouse models of partial trisomy and monosomy 21 for the proximal Hspa13-App region.	25803843
Intestinal Depletion of NaPi-IIb/Slc34a2 in Mice: Renal and Hormonal Adaptation.	25827490
Identification of a chronic non-neurodegenerative microglia activation state in a mouse model of peroxisomal $\beta$ -oxidation deficiency.	25846981



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Complete cis Exclusion upon Duplication of the E $\mu$ Enhancer at the Immunoglobulin Heavy Chain Locus.	25896912
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The Cytokine GM-CSF Drives the Inflammatory Signature of CCR2+ Monocytes and Licenses Autoimmunity.	26341401
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GAL3 receptor KO mice exhibit an anxiety-like phenotype.	24782539
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Dendritic cell-mediated, DNA-based vaccination against hepatitis C induces the multi-epitope-specific response of humanized, HLA transgenic mice.	25111185
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Glutamatergic neuron-targeted loss of LGI1 epilepsy gene results in seizures.	25234641
Phospholipid scramblase-1-induced lipid reorganization regulates compensatory endocytosis in neuroendocrine cells.	23426682
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Orphan receptor GPR179 forms macromolecular complexes with components of metabotropic signaling cascade in retina ON-bipolar neurons.	24114537
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Disruption of the histidine triad nucleotide-binding hint2 gene in mice affects glycemic control and mitochondrial function.	22961760
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Role of mTOR, Bad, and Survivin in RasGAP Fragment N-Mediated Cell Protection.	23826368
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The NAD(+)/Sirtuin Pathway Modulates Longevity through Activation of Mitochondrial UPR and FOXO Signaling.	23870130
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A new type of microglia gene targeting shows TAK1 to be pivotal in CNS autoimmune inflammation.	24077561
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Mutant PrP suppresses glutamatergic neurotransmission in cerebellar granule neurons by impairing membrane delivery of VGCC $\alpha(2)\delta-1$ Subunit.	22542184
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The N-terminal, polybasic region of PrP(C) dictates the efficiency of prion propagation by binding to PrP(Sc).	22745483
CFTR is involved in the fine tuning of intracellular redox status: physiological implications in cystic fibrosis.	22846720
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A hypomorphic mutation in the Gfi1 transcriptional repressor results in a novel form of neutropenia.	22684987
Vezatin is essential for dendritic spine morphogenesis and functional synaptic maturation.	22745500
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Sema3E-PlexinD1 signaling selectively suppresses disoriented angiogenesis in ischemic retinopathy in mice.	21505259
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A naturally occurring C-terminal fragment of the prion protein (PrP) delays disease and acts as a dominant-negative inhibitor of PrPSc formation.	22025612
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RBP-J $\kappa$ -dependent Notch signaling enhances retinal pigment epithelial cell proliferation in transgenic mice.	20856205
Overexpression of Bcl-2 in hepatocytes protects against injury but does not attenuate fibrosis in a mouse model of chronic cholestatic liver disease.	20856227
Deconstructing antiobesity compound action: requirement of serotonin 5-HT <sub>2B</sub> receptors for dexfenfluramine anorectic effects.	20927048
The telomeric part of the human chromosome 21 from Cstb to Prmt2 is not necessary for the locomotor and short-term memory deficits observed in the Tc1 mouse model of Down syndrome.	21047530
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CRMP5 (collapsin response mediator protein 5) regulates dendritic development and synaptic plasticity in the cerebellar Purkinje cells.	21289187
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TP53INP1 decreases pancreatic cancer cell migration by regulating SPARC expression.	21339733
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Excess type I interferon signaling in the mouse seminiferous tubules leads to germ cell loss and sterility.	21515676
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A pericyte origin of spinal cord scar tissue.	21737741
Increased muscle stress-sensitivity induced by selenoprotein N inactivation in mouse: a mammalian model for SEP1-related myopathy.	21858002
Breathing without CO <sub>2</sub> chemosensitivity in conditional Phox2b mutants.	21900566
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