

Year	Journal	Volume	Page	Title	PMID	Authors
2021	Molecular vision	27	78-94	Clinical and genetic findings in Italian patients with sector retinitis pigmentosa.	33688152	Verdina, Tommaso; Greenstein, Vivienne C; Tsang, Stephen H; Murro, Vittoria; Mucciolo, Dario Pasquale; Passerini, Ilaria; Mastropasqua, Rodolfo; Cavallini, Gian Maria; Virgili, Gianni; Giansanti, Fabrizio; Sodi, Andrea
2020	Neuron	106	789-805.e5	The Loss of TBK1 Kinase Activity in Motor Neurons or in All Cell Types Differentially Impacts ALS Disease Progression in SOD1 Mice.	32220666	Gerbino, Valeria; Kaunga, Esther; Ye, Junqiang; Canzio, Daniele; O'Keeffe, Sean; Rudnick, Noam D; Guarnieri, Paolo; Lutz, Cathleen M; Maniatis, Tom
2020	Brain : a journal of neurology	143	1905-1919	Loss of TMEM106B leads to myelination deficits: implications for frontotemporal dementia treatment strategies.	32504082	Zhou, Xiaolai; Nicholson, Alexandra M; Ren, Yingxue; Brooks, Mieu; Jiang, Peizhou; Zuberi, Aamir; Phuoc, Hung Nguyen; Perkerson, Ralph B; Matchett, Billie; Parsons, Tammee M; Finch, NiCole A; Lin, Wenlang; Qiao, Wenhui; Castanedes-Casey, Monica; Phillips, Virginia; Librero, Ariston L; Asmann, Yan; Bu, Guojun; Murray, Melissa E; Lutz, Cathleen; Dickson, Dennis W; Rademakers, Rosa
2020	EMBO reports	21	e50197	Loss of Tmem106b exacerbates FTLN pathologies and causes motor deficits in progranulin-deficient mice.	32761777	Zhou, Xiaolai; Brooks, Mieu; Jiang, Peizhou; Koga, Shunsuke; Zuberi, Aamir R; Baker, Matthew C; Parsons, Tammee M; Castanedes-Casey, Monica; Phillips, Virginia; Librero, Ariston L; Kurti, Aishe; Fryer, John D; Bu, Guojun; Lutz, Cathleen; Dickson, Dennis W; Rademakers, Rosa
2020	Brain research	1732	146683	Gene therapies for axonal neuropathies: Available strategies, successes to date, and what to target next.	32001243	Morelli, Kathryn H; Hatton, Courtney L; Harper, Scott Q; Burgess, Robert W
2020	JCI insight	5		Multiexon deletion alleles of ATF6 linked to achromatopsia.	32271167	Lee, Eun-Jin; Chiang, Wei-Chieh Jerry; Kroeger, Heike; Bi, Chloe Xiaoke; Chao, Daniel L; Skowronska-Krawczyk, Dorota; Mastey, Rebecca R; Tsang, Stephen H; Chea, Leon; Kim, Kyle; Lambert, Scott R; Grandjean, Julia Md; Baumann, Britta; Audo, Isabelle; Kohl, Susanne; Moore, Anthony T; Wiseman, R Luke; Carroll, Joseph; Lin, Jonathan H
2020	Journal of immunology (Baltimore, Md. : 1950)	204	2887-2899	The CD137 Ligand Is Important for Type 1 Diabetes Development but Dispensable for the Homeostasis of Disease-Suppressive CD137+ FOXP3+ Regulatory CD4 T Cells.	32295876	Foda, Bardees M; Ciecko, Ashley E; Serreze, David V; Ridgway, William M; Geurts, Aron M; Chen, Yi-Guang

2020	Molecular genetics & genomic medicine	8	e1273	Sequential multiple retinal vein occlusions and transient ischemic attack in MTHFR polymorphism and protein S deficiency.	32347013	Cho, Ahra; Ragi, Sara D; Oh, Jin Kyun; Lima de Carvalho Jr, Jose Ronaldo; Ryu, Joseph; Yang, Ber-Yuh; Tsang, Stephen H
2020	Molecular therapy : the journal of the American Society of Gene Therapy	28	1706-1716	RNAi-Based Gene Therapy Rescues Developmental and Epileptic Encephalopathy in a Genetic Mouse Model.	32353324	Aimiuwu, Osasumwen V; Fowler, Allison M; Sah, Megha; Teoh, Jia Jie; Kanber, Ayla; Pyne, Nettie K; Petri, Sabrina; Rosenthal-Weiss, Chana; Yang, Mu; Harper, Scott Q; Frankel, Wayne N
2020	Trends in genetics : TIG	36	499-509	Using Genetic and Species Diversity to Tackle Kidney Disease.	32362446	Garrett, Michael R; Korstanje, Ron
2020	Ophthalmology. Retina	4	1119-1123	Prospective Impact of Sildenafil on Chronic cEntral Serous Chorioretinopathy: PISCES Trial.	32525054	Breazzano, Mark P; Coleman, D Jackson; Chen, Royce W S; Chang, Stanley; Daly, Suzanne; Tsang, Stephen H
2020	The Journal of clinical investigation	130	3971-3973	Precision metabolome reprogramming for imprecision therapeutics in retinitis pigmentosa.	32657778	Caruso, Salvatore; Ryu, Joseph; Quinn, Peter Mj; Tsang, Stephen H
2020	Journal of immunology (Baltimore, Md. : 1950)	205	1763-1777	CD70 Inversely Regulates Regulatory T Cells and Invariant NKT Cells and Modulates Type 1 Diabetes in NOD Mice.	32868408	Ye, Cheng; Low, Benjamin E; Wiles, Michael V; Brusko, Todd M; Serreze, David V; Driver, John P
2020	Molecular therapy : the journal of the American Society of Gene Therapy	28	2139-2149	Therapy in Rhodopsin-Mediated Autosomal Dominant Retinitis Pigmentosa.	32882181	Meng, Da; Ragi, Sara D; Tsang, Stephen H
2020	Journal of immunology (Baltimore, Md. : 1950)	205	2026-2038	T Cells from NOD-Perlg Mice Target Both Pancreatic and Neuronal Tissue.	32938729	Racine, Jeremy J; Chapman, Harold D; Doty, Rosalinda; Cairns, Brynn M; Hines, Timothy J; Tadenev, Abigail L D; Anderson, Laura C; Green, Torrian; Dyer, Meaghan E; Wotton, Janine M; Bichler, Zoë; White, Jacqueline K; Ettinger, Rachel; Burgess, Robert W; Serreze, David V
2020	bioRxiv : the preprint server for biology			Investigation of COVID-19 comorbidities reveals genes and pathways coincident with the SARS-CoV-2 viral disease.	32995795	Dolan, Mary E; Hill, David P; Mukherjee, Gaurab; McAndrews, Monica S; Chesler, Elissa J; Blake, Judith A
2020	Investigative ophthalmology & visual science	61	12	Retinal Manifestations of Mitochondrial Oxidative Phosphorylation Disorders.	33049060	Oh, Jin Kyun; Lima de Carvalho Jr, Jose Ronaldo; Nuzbrokh, Yan; Ryu, Joseph; Chemudupati, Teja; Mahajan, Vinit B; Sparrow, Janet R; Tsang, Stephen H
2020	Cell reports	33	108303	Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy.	33113364	Shore, Amy N; Colombo, Sophie; Tobin, William F; Petri, Sabrina; Cullen, Erin R; Dominguez, Soledad; Bostick, Christopher D; Beaumont, Michael A; Williams, Damian; Khodagholy, Dion; Yang, Mu; Lutz, Cathleen M; Peng, Yueqing; Gelinas, Jennifer N;

2019	The Journal of clinical investigation	129	1756-1771	Restoring mitofusin balance prevents axonal degeneration in a Charcot-Marie-Tooth type 2A model.	30882371	Zhou, Yueqin; Carmona, Sharon; Mohammad, A R M S; Ben, Shaughn; Landeros, Jesse; Vazquez, Michael; Ho, Ritchie; Franco, Antonietta; Lu, Bin; Dorn 2nd, Gerald W; Wang, Shaomei; Lutz, Cathleen M; Baloh, Robert H
2019	Acta neuropathologica	138	103-121	ALS/FTD mutant CHCHD10 mice reveal a tissue-specific toxic gain-of-function and mitochondrial stress response.	30877432	Anderson, Corey J; Bredvik, Kirsten; Burstein, Suzanne R; Davis, Crystal; Meadows, Samantha M; Dash, Jalia; Case, Laure; Milner, Teresa A; Kawamata, Hibiki; Zuberi, Aamir; Piersigilli, Alessandra; Lutz, Cathleen; Manfredi, Giovanni
2019	The Journal of clinical investigation	129	5568-5583	Allele-specific RNA interference prevents neuropathy in Charcot-Marie-Tooth disease type 2D mouse models.	31557132	Morelli, Kathryn H; Griffin, Laurie B; Pyne, Nettie K; Wallace, Lindsay M; Fowler, Allison M; Oprescu, Stephanie N; Takase, Ryuichi; Wei, Na; Meyer-Schuman, Rebecca; Mellacheruvu, Umrigar, Eric; Lake, Jennifer; Sheehan, Susan; Schiano, Guglielmo; Takata, Tomoaki; Tokonami, Natsuko; Debaix, Huguette; Consolato, Francesco; Rampoldi, Luca; Korstanje, Ron; Devuyst, Olivier
2019	Scientific reports	9	12287	Hepsin-mediated Processing of Uromodulin is Crucial for Salt-sensitivity and Thick Ascending Limb Homeostasis.	31444371	
2019	Cell reports	29	3073-3086	Interleukin-27 Is Essential for Type 1 Diabetes Development and Sjögren Syndrome-like Inflammation.	31801074	Ciecko, Ashley E; Foda, Bardees; Barr, Jennifer Y; Ramanathan, Sheela; Atkinson, Mark A; Serreze, David V; Geurts, Aron M; Lieberman, Scott M; Chen, Yi-Guang
2019	The American journal of pathology	189	1786-1796	Detection and Classification of Novel Renal Histologic Phenotypes Using Deep Neural Networks.	31220455	Sheehan, Susan; Mawe, Seamus; Cianciolo, Rachel E; Korstanje, Ron; Mahoney, J Matthew
2019	Scientific reports	9	4316	Combined congenic mapping and nuclease-based gene targeting for studying allele-specific effects of Tnfrsf9 within the Idd9.3 autoimmune diabetes locus.	30867509	Forsberg, Matthew H; Foda, Bardees; Serreze, David V; Chen, Yi-Guang
2019	Frontiers in immunology	10	99	CD11c+ Cells Are Gatekeepers for Lymphocyte Trafficking to Infiltrated Islets During Type 1 Diabetes.	30766536	Sandor, Adam M; Lindsay, Robin S; Dyjack, Nathan; Whitesell, Jennifer C; Rios, Cydney; Bradley, Brenda J; Haskins, Kathryn; Serreze, David V; Geurts, Aron M; Chen, Yi-Guang; Seibold, Max A; Jacobelli, Jordan; Friedman, Rachel S
2019	Database : the journal of biological databases and curation	2019		Curating gene sets: challenges and opportunities for integrative analysis.	30888410	Bubier, Jason; Hill, David; Mukherjee, Gaurab; Reynolds, Timothy; Baker, Erich J; Berger, Alexander; Emerson, Jake; Blake, Judith A; Chesler, Elissa J
2019	Mammalian genome : official journal of the International Mammalian Genome Society	30	111-122	Model validity for preclinical studies in precision medicine: precisely how precise do we need to be?	30953144	Tadenev, Abigail L D; Burgess, Robert W
2018	Brain research	1693	1-10	Mouse models of ALS: Past, present and future.	29577886	Lutz, Cathleen

2018	Human molecular genetics	27	3951-3963	Tauopathy-associated PERK alleles are functional hypomorphs that increase neuronal vulnerability to ER stress.	30137327	Yuan, Shauna H; Hiramatsu, Nobuhiko; Liu, Qing; Sun, Xuehan Victoria; Lenh, David; Chan, Priscilla; Chiang, Karen; Koo, Edward H; Kao, Aimee W; Litvan, Irene; Lin, Jonathan H
2018	American journal of physiology. Renal physiology	315	F1644-F16	Automatic glomerular identification and quantification of histological phenotypes using image analysis and machine learning.	30256126	Sheehan, Susan M; Korstanje, Ron
2018	Physiological genomics	50	543-552	FAR2 is associated with kidney disease in mice and humans.	29652635	Backer, Grant; Eddy, Sean; Sheehan, Susan M; Takemon, Yuka; Reznichenko, Anna; Savage, Holly S; Kretzler, Matthias; Korstanje, Ron
2018	Journal of immunology (Baltimore, Md. : 1950)	201	1907-1917	A Hypermorphic Nfkbid Allele Contributes to Impaired Thymic Deletion of Autoreactive Diabetogenic CD8+ T Cells in NOD Mice.	30127089	Presa, Maximiliano; Racine, Jeremy J; Dwyer, Jennifer R; Lamont, Deanna J; Ratiu, Jeremy J; Sarsani, Vishal Kumar; Chen, Yi-Guang; Geurts, Aron; Schmitz, Ingo; Stearns, Timothy; Allocco, Jennifer; Chapman, Harold D; Serreze, David V
2018	Diabetes	67	923-935	Improved Murine MHC-Deficient HLA Transgenic NOD Mouse Models for Type 1 Diabetes Therapy Development.	29472249	Racine, Jeremy J; Stewart, Isabel; Ratiu, Jeremy; Christianson, Greg; Lowell, Emily; Helm, Kelsay; Allocco, Jennifer; Maser, Richard S; Chen, Yi-Guang; Lutz, Cathleen M; Roopenian, Derry; Schloss, Jennifer; DiLorenzo, Teresa P; Serreze, David V
2018	Journal of immunology (Baltimore, Md. : 1950)	200	3353-3363	HLA-B*39:06 Efficiently Mediates Type 1 Diabetes in a Mouse Model Incorporating Reduced Thymic Insulin Expression.	29632144	Schloss, Jennifer; Ali, Riyasat; Racine, Jeremy J; Chapman, Harold D; Serreze, David V; DiLorenzo, Teresa P
2017	Science signaling	10		Intercellular transmission of the unfolded protein response promotes survival and drug resistance in cancer cells.	28588081	Rodvold, Jeffrey J; Chiu, Kevin T; Hiramatsu, Nobuhiko; Nussbacher, Julia K; Galimberti, Valentina; Mahadevan, Navin R; Willert, Karl; Lin, Jonathan H; Zanetti, Maurizio
2017	Proceedings of the National Academy of Sciences of the United States of America	114	400-405	Achromatopsia mutations target sequential steps of ATF6 activation.	28028229	Chiang, Wei-Chieh; Chan, Priscilla; Wissinger, Bernd; Vincent, Ajoy; Skorczyk-Werner, Anna; Krawczyński, Maciej R; Kaufman, Randal J; Tsang, Stephen H; Héon, Elise; Kohl, Susanne; Lin, Jonathan H
2017	EMBO reports	18	187-193	Of mice and CRISPR: The post-CRISPR future of the mouse as a model system for the human condition.	28119373	Liu, Edison T; Bolcun-Filas, Ewelina; Grass, David S; Lutz, Cathleen; Murray, Steve; Shultz, Lenny; Rosenthal, Nadia
2017	RNA (New York, N.Y.)	23	457-465	APOBEC1 complementation factor (A1CF) is dispensable for C-to-U RNA editing in vivo.	28069890	Snyder, Elizabeth M; McCarty, Christopher; Mehalow, Adrienne; Svenson, Karen L; Murray, Stephen A; Korstanje, Ron; Braun, Robert E

2017	Journal of immunology (Baltimore, Md. : 1950)	198	4255-4267	Genetic and Small Molecule Disruption of the AID/RAD51 Axis Similarly Protects Nonobese Diabetic Mice from Type 1 Diabetes through Expansion of Regulatory B Lymphocytes.	28461573	Ratiu, Jeremy J; Racine, Jeremy J; Hasham, Muneer G; Wang, Qiming; Branca, Jane A; Chapman, Harold D; Zhu, Jing; Donghia, Nina; Philip, Vivek; Schott, William H; Wasserfall, Clive; Atkinson, Mark A; Mills, Kevin D; Leeth, Caroline M; Serreze, David V
2017	Cell reports	18	3178-3191	Severity of Demyelinating and Axonal Neuropathy Mouse Models Is Modified by Genes Affecting Structure and Function of Peripheral Nodes.	28355569	Morelli, Kathryn H; Seburn, Kevin L; Schroeder, David G; Spaulding, Emily L; Dionne, Loïse A; Cox, Gregory A; Burgess, Robert W
2017	Journal of immunology (Baltimore, Md. : 1950)	199	3757-3770	Transient BAFF Blockade Inhibits Type 1 Diabetes Development in Nonobese Diabetic Mice by Enriching Immunoregulatory B Lymphocytes Sensitive to Deletion by Anti-CD20 Cotherapy.	29055002	Wang, Qiming; Racine, Jeremy J; Ratiu, Jeremy J; Wang, Shu; Ettinger, Rachel; Wasserfall, Clive; Atkinson, Mark A; Serreze, David V
2017	Human molecular genetics	26	3722-3735	Hearing loss without overt metabolic acidosis in ATP6V1B1 deficient MRL mice, a new genetic model for non-syndromic deafness with enlarged vestibular aqueducts.	28934385	Tian, Cong; Gagnon, Leona H; Longo-Guess, Chantal; Korstanje, Ron; Sheehan, Susan M; Ohlemiller, Kevin K; Schrader, Angela D; Lett, Jaclynn M; Johnson, Kenneth R
2017	Endocrinology	158	2707-2712	Continuous Glucose Monitoring in Female NOD Mice Reveals Daily Rhythms and a Negative Correlation With Body Temperature.	28633442	Korstanje, Ron; Ryan, Jennifer L; Savage, Holly S; Lyons, Bonnie L; Kane, Kevin G; Sukoff Rizzo, Stacey J
2016	Diabetes	65	1977-1987	B-lymphocytes expressing an Ig specificity recognizing the pancreatic β-cell autoantigen peripherin are potent contributors to type 1 diabetes development in NOD mice.	26961115	Leeth, Caroline M; Racine, Jeremy; Chapman, Harold D; Arpa, Berta; Carrillo, Jorge; Carrascal, Jorge; Wang, Qiming; Ratiu, Jeremy; Egia-Mendikute, Leire; Rosell-Mases, Estela; Stratmann, Thomas; Verdaguer, Joan; Serreze, David V