Martin Klingenspor

List of Publications by Year in Descending Order

236 papers	10,450 citations	54 h-index	93 g-index
251 ext. papers	12,157 ext. citations	6.8 avg, IF	5.86 L-index

#	Paper	IF	Citations
236	Bis-choline tetrathiomolybdate prevents copper-induced blood-brain barrier damage. *Life Science Alliance*, **2022**, 5,	5.8	1
235	EBI2 is a negative modulator of brown adipose tissue energy expenditure in mice and human brown adipocytes.. *Communications Biology*, **2022**, 5, 280	6.7	1
234	When fat meets the gut-focus on intestinal lipid handling in metabolic health and disease.. *EMBO Molecular Medicine*, **2022**, e14742	12	0
233	Loss of UCP1 function augments recruitment of futile lipid cycling for thermogenesis in murine brown fat.. *Molecular Metabolism*, **2022**, 101499	8.8	1
232	Susceptibility to diet-induced obesity at thermoneutral conditions is independent of UCP1.. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**,	6	1
231	Novel Effects of the Gastrointestinal Hormone Secretin on Cardiac Metabolism and Renal Function. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**,	6	1
230	Fibroblast growth factor induced Ucp1 expression in preadipocytes requires PGE2 biosynthesis and glycolytic flux. *FASEB Journal*, **2021**, 35, e21572	0.9	0
229	Multicompartmental non-invasive sensing of postprandial lipemia in humans with multispectral optoacoustic tomography. *Molecular Metabolism*, **2021**, 47, 101184	8.8	3
228	LncRNA Ctcflos orchestrates transcription and alternative splicing in thermogenic adipogenesis. *EMBO Reports*, **2021**, 22, e51289	6.5	5
227	Protein Kinase D2 drives chylomicron-mediated lipid transport in the intestine and promotes obesity. *EMBO Molecular Medicine*, **2021**, 13, e13548	12	4
226	Secretin as a Satiation Whisperer With the Potential to Turn into an Obesity-curbing Knight. *Endocrinology*, **2021**, 162,	4.8	3
225	Secretin activates brown fat and induces satiation. *Nature Metabolism*, **2021**, 3, 798-809	14.6	10
224	Spatiotemporal GLP-1 and GIP receptor signaling and trafficking/recycling dynamics induced by selected receptor mono- and dual-agonists. *Molecular Metabolism*, **2021**, 49, 101181	8.8	13
223	Uncoupling protein-1 expression does not protect mice from diet-induced obesity. *American Journal of Physiology - Endocrinology and Metabolism*, **2021**, 320, E333-E345	6	5
222	No Effect of Dietary Fish Oil Supplementation on the Recruitment of Brown and Brite Adipocytes in Mice or Humans under Thermoneutral Conditions. *Molecular Nutrition and Food Research*, **2021**, 65, e2000681	5.9	1
221	Revisiting energy expenditure: how to correct mouse metabolic rate for body mass. *Nature Metabolism*, **2021**, 3, 1134-1136	14.6	7
220	A Phenotyping Platform to Characterize Healthy Individuals Across Four Stages of Life - The Study. *Frontiers in Nutrition*, **2020**, 7, 582387	6.2	7

219	Isolation, Culture, and Functional Analysis of Murine Thermogenic Adipocytes. *STAR Protocols*, **2020**, 1, 100118	1.4	6
218	The scaffold protein p62 regulates adaptive thermogenesis through ATF2 nuclear target activation. *Nature Communications*, **2020**, 11, 2306	17.4	11
217	Fatty Acid Metabolite Profiling Reveals Oxylipins as Markers of Brown but Not Brite Adipose Tissue. *Frontiers in Endocrinology*, **2020**, 11, 73	5.7	10
216	Reduced mitochondrial resilience enables non-canonical induction of apoptosis after TNF receptor signaling in virus-infected hepatocytes. *Journal of Hepatology*, **2020**, 73, 1347-1359	13.4	6
215	Proteomic and Metabolite Profiling Reveals Profound Structural and Metabolic Reorganization of Adipocyte Mitochondria in Obesity. *Obesity*, **2020**, 28, 590-600	8	6
214	Meltome atlas-thermal proteome stability across the tree of life. *Nature Methods*, **2020**, 17, 495-503	21.6	53
213	The gut hormone secretin triggers a gut-brown fat-brain axis in the control of food intake. *Experimental Physiology*, **2020**, 105, 1206-1213	2.4	10
212	Uncoupling protein 1 and the capacity for nonshivering thermogenesis are components of the glucose homeostatic system. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 318, E198-E215	6	20
211	Disturbed gut microbiota and bile homeostasis in -infected mice contributes to metabolic dysregulation and growth impairment. *Science Translational Medicine*, **2020**, 12,	17.5	12
210	Submucosal enteric neurons of the cavine distal colon are sensitive to hypoosmolar stimuli. *Journal of Physiology*, **2020**, 598, 5317-5332	3.9	2
209	Fibroblast growth factor 8b induces uncoupling protein 1 expression in epididymal white preadipocytes. *Scientific Reports*, **2019**, 9, 8470	4.9	4
208	Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. *Journal of Inherited Metabolic Disease*, **2019**, 42, 839-849	5.4	5
207	Secretin Links Brown Fat to Food Intake: New Perspectives for Targeting Energy Balance in Humans. *Obesity*, **2019**, 27, 875-877	8	2
206	Mutation in the mouse histone gene Hist2h3c1 leads to degeneration of the lens vesicle and severe microphthalmia. *Experimental Eye Research*, **2019**, 188, 107632	3.7	2
205	Adipose Mitochondrial Respiratory Capacity in Obesity is Impaired Independently of Glycemic Status of Tissue Donors. *Obesity*, **2019**, 27, 756-766	8	5
204	Fatty Acid Metabolites as Novel Regulators of Non-shivering Thermogenesis. *Handbook of Experimental Pharmacology*, **2019**, 251, 183-214	3.2	6
203	The lipidome of primary murine white, brite, and brown adipocytes-Impact of beta-adrenergic stimulation. *PLoS Biology*, **2019**, 17, e3000412	9.7	18
202	High-Fat Diet Accelerates Carcinogenesis in a Mouse Model of Barrett's Esophagus via Interleukin 8 and Alterations to the Gut Microbiome. *Gastroenterology*, **2019**, 157, 492-506.e2	13.3	58

201	Lipoprotein Lipase is Differentially Regulated in Brown and White Adipose Tissue During Seasonal Acclimatization of the Djungarian Hamster **2019**, 409-416		
200	Systems-Genetics-Based Inference of a Core Regulatory Network Underlying White Fat Browning. *Cell Reports*, **2019**, 29, 4099-4113.e5	10.6	5
199	A dual Ucp1 reporter mouse model for imaging and quantitation of brown and brite fat recruitment. *Molecular Metabolism*, **2019**, 20, 14-27	8.8	26
198	A mouse model for intellectual disability caused by mutations in the X-linked 2SO-methyltransferase Ftsj1 gene. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 2083-2093	6.9	12
197	Bile acid supplementation decreases body mass gain in C57BL/6J but not 129S6/SvEvTac mice without increasing energy expenditure. *Scientific Reports*, **2019**, 9, 131	4.9	12
196	Opposing Actions of Adrenocorticotropic Hormone and Glucocorticoids on UCP1-Mediated Respiration in Brown Adipocytes. *Frontiers in Physiology*, **2018**, 9, 1931	4.6	15
195	Non-invasive Measurement of Brown Fat Metabolism Based on Optoacoustic Imaging of Hemoglobin Gradients. *Cell Metabolism*, **2018**, 27, 689-701.e4	24.6	75
194	Non-adrenergic control of lipolysis and thermogenesis in adipose tissues. *Journal of Experimental Biology*, **2018**, 221,	3	56
193	Animal models of obesity and diabetes mellitus. *Nature Reviews Endocrinology*, **2018**, 14, 140-162	15.2	330
192	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. *Nature Communications*, **2018**, 9, 288	17.4	48
191	Impact of dietary □ polyunsaturated fatty acid supplementation on brown and brite adipocyte function. *Journal of Lipid Research*, **2018**, 59, 452-461	6.3	38
190	Degradation of brown adipocyte purine nucleotides regulates uncoupling protein 1 activity. *Molecular Metabolism*, **2018**, 8, 77-85	8.8	15
189	The exceptional sensitivity of brain mitochondria to copper. *Toxicology in Vitro*, **2018**, 51, 11-22	3.6	28
188	A paternal methyl donor-rich diet altered cognitive and neural functions in offspring mice. *Molecular Psychiatry*, **2018**, 23, 1345-1355	15.1	38
187	Fgf9 Mutation Alters Information Processing and Social Memory in Mice. *Molecular Neurobiology*, **2018**, 55, 4580-4595	6.2	7
186	The Role of Fibroblast Growth Factor-Binding Protein 1 in Skin Carcinogenesis and Inflammation. *Journal of Investigative Dermatology*, **2018**, 138, 179-188	4.3	15
185	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. *Behavioural Brain Research*, **2018**, 352, 187-196	3.4	12
184	Streptozotocin-induced □cell damage, high fat diet, and metformin administration regulate Hes3 expression in the adult mouse brain. *Scientific Reports*, **2018**, 8, 11335	4.9	3

183	Brown adipocyte glucose metabolism: a heated subject. *EMBO Reports*, **2018**, 19,	6.5	54
182	Postprandial Oxidative Metabolism of Human Brown Fat Indicates Thermogenesis. *Cell Metabolism*, **2018**, 28, 207-216.e3	24.6	99
181	Substrate fluxes in brown adipocytes upon adrenergic stimulation and uncoupling protein 1 ablation. *Life Science Alliance*, **2018**, 1, e201800136	5.8	17
180	Secretin-Activated Brown Fat Mediates Prandial Thermogenesis to Induce Satiation. *Cell*, **2018**, 175, 1561-1574.e12	36.2	106
179	Laboratory mouse housing conditions can be improved using common environmental enrichment without compromising data. *PLoS Biology*, **2018**, 16, e2005019	9.7	28
178	Active Brown Fat During F-FDG PET/CT Imaging Defines a Patient Group with Characteristic Traits and an Increased Probability of Brown Fat Redetection. *Journal of Nuclear Medicine*, **2017**, 58, 1104-1110	8.9	32
177	Proximate causes for diet-induced obesity in laboratory mice: a case study. *European Journal of Clinical Nutrition*, **2017**, 71, 306-317	5.2	7
176	Teneurin-2 (TENM2) deficiency induces UCP1 expression in differentiating human fat cells. *Molecular and Cellular Endocrinology*, **2017**, 443, 106-113	4.4	12
175	Modification of the fatty acid composition of an obesogenic diet improves the maternal and placental metabolic environment in obese pregnant mice. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 1605-1614	6.9	9
174	Brown Adipose Tissue **2017**, 91-147		13
173	Metformin causes a futile intestinal-hepatic cycle which increases energy expenditure and slows down development of a type 2 diabetes-like state. *Molecular Metabolism*, **2017**, 6, 737-747	8.8	15
172	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. *Molecular Neurobiology*, **2017**, 54, 8242-8262	6.2	7
171	Control of adipogenesis by oxylipins, GPCRs and PPARs. *Biochimie*, **2017**, 136, 3-11	4.6	43
170	Meaningful respirometric measurements of UCP1-mediated thermogenesis. *Biochimie*, **2017**, 134, 56-61	4.6	20
169	Standardized, systemic phenotypic analysis reveals kidney dysfunction as main alteration of Kctd1 mutant mice. *Journal of Biomedical Science*, **2017**, 24, 57	13.3	5
168	Aminoglycosides, but not PTC124 (Ataluren), rescue nonsense mutations in the leptin receptor and in luciferase reporter genes. *Scientific Reports*, **2017**, 7, 1020	4.9	13
167	Every-other-day feeding extends lifespan but fails to delay many symptoms of aging in mice. *Nature Communications*, **2017**, 8, 155	17.4	60
166	: effects on motor phenotypes and the sensorimotor system in mice. *DMM Disease Models and Mechanisms*, **2017**, 10, 981-991	4.1	17

165	Dietary fat and gut microbiota interactions determine diet-induced obesity in mice. *Molecular Metabolism*, **2016**, 5, 1162-1174	8.8	108
164	Mitochondrial function controls intestinal epithelial stemness and proliferation. *Nature Communications*, **2016**, 7, 13171	17.4	93
163	Reduced mitochondrial mass and function add to age-related susceptibility toward diet-induced fatty liver in C57BL/6J mice. *Physiological Reports*, **2016**, 4, e12988	2.6	22
162	Treatment of diet-induced lipodystrophic C57BL/6J mice with long-acting PASylated leptin normalises insulin sensitivity and hepatic steatosis by promoting lipid utilisation. *Diabetologia*, **2016** , 59, 2005-12	10.3	9
161	Long-Acting PASylated Leptin Ameliorates Obesity by Promoting Satiety and Preventing Hypometabolism in Leptin-Deficient Lep(ob/ob) Mice. *Endocrinology*, **2016**, 157, 233-44	4.8	20
160	Diet-induced and mono-genetic obesity alter volatile organic compound signature in mice. *Journal of Breath Research*, **2016**, 10, 016009	3.1	6
159	Mildly compromised tetrahydrobiopterin cofactor biosynthesis due to Pts variants leads to unusual body fat distribution and abdominal obesity in mice. *Journal of Inherited Metabolic Disease*, **2016**, 39, 309-19	5.4	8
158	Generation and Standardized, Systemic Phenotypic Analysis of Pou3f3L423P Mutant Mice. *PLoS ONE*, **2016**, 11, e0150472	3.7	9
157	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. *G3: Genes, Genomes, Genetics*, **2016**, 6, 4035-4046	3.2	7
156	Viable Ednra mice feature human mandibulofacial dysostosis with alopecia (MFDA) syndrome due to the homologue mutation. *Mammalian Genome*, **2016**, 27, 587-598	3.2	3
155	Diet-induced obesity causes metabolic impairment independent of alterations in gut barrier integrity. *Molecular Nutrition and Food Research*, **2015**, 59, 968-78	5.9	28
154	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. *Nature Genetics*, **2015**, 47, 969-978	36.3	106
153	Functional compensation among HMGN variants modulates the DNase I hypersensitive sites at enhancers. *Genome Research*, **2015**, 25, 1295-308	9.7	28
152	PASylation of Murine Leptin Leads to Extended Plasma Half-Life and Enhanced in Vivo Efficacy. *Molecular Pharmaceutics*, **2015**, 12, 1431-42	5.6	53
151	eIF6 coordinates insulin sensitivity and lipid metabolism by coupling translation to transcription. *Nature Communications*, **2015**, 6, 8261	17.4	60
150	The development of diet-induced obesity and associated metabolic impairments in Dj-1 deficient mice. *Journal of Nutritional Biochemistry*, **2015**, 26, 75-81	6.3	9
149	Generation of mice lacking DUF1220 protein domains: effects on fecundity and hyperactivity. *Mammalian Genome*, **2015**, 26, 33-42	3.2	4
148	The brown and brite adipocyte marker Cox7a1 is not required for non-shivering thermogenesis in mice. *Scientific Reports*, **2015**, 5, 17704	4.9	22

147	Glucose tolerance tests for systematic screening of glucose homeostasis in mice. *Current Protocols in Mouse Biology*, **2015**, 5, 65-84	1.1	13
146	Limited OXPHOS capacity in white adipocytes is a hallmark of obesity in laboratory mice irrespective of the glucose tolerance status. *Molecular Metabolism*, **2015**, 4, 631-42	8.8	35
145	Inverse relationship between body mass index and mitochondrial oxidative phosphorylation capacity in human subcutaneous adipocytes. *American Journal of Physiology - Endocrinology and Metabolism*, **2015**, 309, E380-7	6	43
144	Limited mitochondrial capacity of visceral versus subcutaneous white adipocytes in male C57BL/6N mice. *Endocrinology*, **2015**, 156, 923-33	4.8	24
143	Leveraging cross-species transcription factor binding site patterns: from diabetes risk loci to disease mechanisms. *Cell*, **2014**, 156, 343-58	56.2	96
142	Comparative gene array analysis of progenitor cells from human paired deep neck and subcutaneous adipose tissue. *Molecular and Cellular Endocrinology*, **2014**, 395, 41-50	4.4	27
141	Taking control over intracellular fatty acid levels is essential for the analysis of thermogenic function in cultured primary brown and brite/beige adipocytes. *EMBO Reports*, **2014**, 15, 1069-76	6.5	107
140	Intrinsic differences in BRITE adipogenesis of primary adipocytes from two different mouse strains. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 1345-52	5	31
139	High-fat diet induced isoform changes of the Parkinson's disease protein DJ-1. *Journal of Proteome Research*, **2014**, 13, 2339-51	5.6	39
138	Distinct signatures of host-microbial meta-metabolome and gut microbiome in two C57BL/6 strains under high-fat diet. *ISME Journal*, **2014**, 8, 2380-96	11.9	87
137	Raw coffee based dietary supplements contain carboxyatractyligenin derivatives inhibiting mitochondrial adenine-nucleotide-translocase. *Food and Chemical Toxicology*, **2014**, 70, 198-204	4.7	8
136	Pleiotropic functions for transcription factor zscan10. *PLoS ONE*, **2014**, 9, e104568	3.7	12
135	A review of standardized metabolic phenotyping of animal models. *Mammalian Genome*, **2014**, 25, 497-507	3.2	14
134	Effects of diet-matrix on volatile organic compounds in breath in diet-induced obese mice. *Journal of Breath Research*, **2014**, 8, 016004	3.1	19
133	White, brite, and brown adipocytes: the evolution and function of a heater organ in mammals. *Canadian Journal of Zoology*, **2014**, 92, 615-626	1.5	17
132	Restless legs syndrome-associated intronic common variant in Meis1 alters enhancer function in the developing telencephalon. *Genome Research*, **2014**, 24, 592-603	9.7	79
131	Mitochondrial dysfunction and decrease in body weight of a transgenic knock-in mouse model for TDP-43. *Journal of Biological Chemistry*, **2014**, 289, 10769-10784	5.4	72
130	Peri-conceptional obesogenic exposure induces sex-specific programming of disease susceptibilities in adult mouse offspring. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 304-17	6.9	68

129	Online breath gas analysis in unrestrained mice by hs-PTR-MS. *Mammalian Genome*, **2014**, 25, 129-40	3.2	11
128	Mitochondrial DNA variants in obesity. *PLoS ONE*, **2014**, 9, e94882	3.7	16
127	2-O-β-D-Glucopyranosyl-carboxyatractyligenin from Coffea L. inhibits adenine nucleotide translocase in isolated mitochondria but is quantitatively degraded during coffee roasting. *Phytochemistry*, **2013**, 93, 124-35	4	16
126	Boosting mitochondrial biogenesis in white adipocytes: A route towards improved insulin sensitivity?. *Molecular Metabolism*, **2013**, 2, 128-9	8.8	5
125	SMC6 is an essential gene in mice, but a hypomorphic mutant in the ATPase domain has a mild phenotype with a range of subtle abnormalities. *DNA Repair*, **2013**, 12, 356-66	4.3	22
124	Development of a capillary isoelectric focusing immunoassay to measure DJ-1 isoforms in biological samples. *Analytical Biochemistry*, **2013**, 443, 197-204	3.1	5
123	Photoperiod-dependent regulation of carboxypeptidase E affects the selective processing of neuropeptides in the seasonal Siberian hamster (Phodopus sungorus). *Journal of Neuroendocrinology*, **2013**, 25, 190-7	3.8	11
122	Browning attenuates murine white adipose tissue expansion during postnatal development. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2013**, 1831, 960-8	5	29
121	FTO deficiency induces UCP-1 expression and mitochondrial uncoupling in adipocytes. *Endocrinology*, **2013**, 154, 3141-51	4.8	52
120	Characterization of the melanocortin-4-receptor nonsense mutation W16X in vitro and in vivo. *Pharmacogenomics Journal*, **2013**, 13, 80-93	3.5	11
119	Neuronal expression of glucosylceramide synthase in central nervous system regulates body weight and energy homeostasis. *PLoS Biology*, **2013**, 11, e1001506	9.7	50
118	Diet-induced obesity in ad libitum-fed mice: food texture overrides the effect of macronutrient composition. *British Journal of Nutrition*, **2013**, 109, 1518-27	3.6	24
117	Gene set of nuclear-encoded mitochondrial regulators is enriched for common inherited variation in obesity. *PLoS ONE*, **2013**, 8, e55884	3.7	9
116	A functional nexus between photoperiod acclimation, torpor expression and somatic fatty acid composition in a heterothermic mammal. *PLoS ONE*, **2013**, 8, e63803	3.7	18
115	Standardized, systemic phenotypic analysis of Umod(C93F) and Umod(A227T) mutant mice. *PLoS ONE*, **2013**, 8, e78337	3.7	8
114	A broad phenotypic screen identifies novel phenotypes driven by a single mutant allele in Huntingtons disease CAG knock-in mice. *PLoS ONE*, **2013**, 8, e80923	3.7	30
113	Rapamycin extends murine lifespan but has limited effects on aging. *Journal of Clinical Investigation* , **2013**, 123, 3272-91	15.9	267
112	High fat diet accelerates pathogenesis of murine Crohns disease-like ileitis independently of obesity. *PLoS ONE*, **2013**, 8, e71661	3.7	78

111	A novel SP1/SP3 dependent intronic enhancer governing transcription of the UCP3 gene in brown adipocytes. *PLoS ONE*, **2013**, 8, e83426	3.7	13
110	Regulation des Energiehaushalts. *Springer-Lehrbuch*, **2013**, 109-122	0.4	
109	Does enamelin have pleiotropic effects on organs other than the teeth? Lessons from a phenotyping screen of two enamelin-mutant mouse lines. *European Journal of Oral Sciences*, **2012**, 120, 269-77	2.3	5
108	Structural features and bioavailability of four flavonoids and their implications for lifespan-extending and antioxidant actions in C. elegans. *Mechanisms of Ageing and Development*, **2012**, 133, 1-10	5.6	104
107	Cytochrome c oxidase subunit 4 isoform 2-knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. *FASEB Journal*, **2012**, 26, 3916-30	0.9	53
106	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. *FASEB Journal*, **2012**, 26, 5081-91	0.9	19
105	Rescue of melanocortin 4 receptor (MC4R) nonsense mutations by aminoglycoside-mediated read-through. *Obesity*, **2012**, 20, 1074-81	8	29
104	Innovations in phenotyping of mouse models in the German Mouse Clinic. *Mammalian Genome*, **2012**, 23, 611-22	3.2	35
103	Functional characterization of UCP1 in mammalian HEK293 cells excludes mitochondrial uncoupling artefacts and reveals no contribution to basal proton leak. *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, 1660-70	4.6	39
102	The function of Cox7a1 for brown fat thermogenesis (S14 terminal oxidases). *Biochimica Et Biophysica Acta - Bioenergetics*, **2012**, 1817, S110	4.6	
101	Mouse Genetics and Metabolic Mouse Phenotyping **2012**, 85-106		1
100	Mutation screen in the GWAS derived obesity gene SH2B1 including functional analyses of detected variants. *BMC Medical Genomics*, **2012**, 5, 65	3.7	21
99	Brown Adipose Tissue **2012**, 39-69		9
98	Functional inactivation of the genome-wide association study obesity gene neuronal growth regulator 1 in mice causes a body mass phenotype. *PLoS ONE*, **2012**, 7, e41537	3.7	53
97	Seasonal leptin resistance is associated with impaired signalling via JAK2-STAT3 but not ERK, possibly mediated by reduced hypothalamic GRB2 protein. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 553-67	2.2	15
96	Long-term proteasomal inhibition in transgenic mice by UBB(+1) expression results in dysfunction of central respiration control reminiscent of brainstem neuropathology in Alzheimer patients. *Acta Neuropathologica*, **2012**, 124, 187-97	14.3	24
95	Neurobeachin, a regulator of synaptic protein targeting, is associated with body fat mass and feeding behavior in mice and body-mass index in humans. *PLoS Genetics*, **2012**, 8, e1002568	6	28
94	Phylogenetic differences of mammalian basal metabolic rate are not explained by mitochondrial basal proton leak. *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 185-93	4.4	25

93	Large-scale phenotyping of an accurate genetic mouse model of JNCL identifies novel early pathology outside the central nervous system. *PLoS ONE*, **2012**, 7, e38310	3.7	49
92	The German Mouse Clinic Running an Open Access Platform **2011**, 11-44		2
91	Mouse phenotyping. *Methods*, **2011**, 53, 120-35	4.6	103
90	Metabolic phenotyping of the Crohns disease-like IBD etiopathology in the TNF(ARE/WT) mouse model. *Journal of Proteome Research*, **2011**, 10, 5523-35	5.6	57
89	Test systems to study the structure and function of uncoupling protein 1: a critical overview. *Frontiers in Endocrinology*, **2011**, 2, 63	5.7	12
88	Comparison of particle-exposure triggered pulmonary and systemic inflammation in mice fed with three different diets. *Particle and Fibre Toxicology*, **2011**, 8, 30	8.4	24
87	A novel N-ethyl-N-nitrosourea-induced mutation in phospholipase C causes inflammatory arthritis, metabolic defects, and male infertility in vitro in a murine model. *Arthritis and Rheumatism* , **2011**, 63, 1301-11		33
86	Requirement of the RNA-editing enzyme ADAR2 for normal physiology in mice. *Journal of Biological Chemistry*, **2011**, 286, 18614-22	5.4	64
85	Toxicity modelling of Plk1-targeted therapies in genetically engineered mice and cultured primary mammalian cells. *Nature Communications*, **2011**, 2, 395	17.4	67
84	Uncoupling protein 1 expression and high-fat diets. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 300, R1-8	3.2	128
83	Photoperiod-dependent regulation of carboxypeptidase D and E effects the selective processing of neuropeptides in the seasonal Siberian hamster (Phodopus sungorus). *FASEB Journal*, **2011**, 25, lb542	0.9	
82	No mitochondrial uncoupling artefact is caused by expression of uncoupling protein 1 in a mammalian cell culture: A new system to study mitochondrial carrier proteins. *FASEB Journal*, **2011**, 25, 1044.3	0.9	
81	CIN85 regulates dopamine receptor endocytosis and governs behaviour in mice. *EMBO Journal*, **2010**, 29, 2421-32	13	30
80	Adaptive thermogenesis and thermal conductance in wild-type and UCP1-KO mice. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 299, R1396-406	3.2	111
79	Two new Loci for body-weight regulation identified in a joint analysis of genome-wide association studies for early-onset extreme obesity in French and german study groups. *PLoS Genetics*, **2010**, 6, e1000916	6	250
78	Behavioural mechanisms affecting energy regulation in mice prone or resistant to diet- induced obesity. *Physiology and Behavior*, **2010**, 99, 370-80	3.5	20
77	Cyclooxygenase-2 controls energy homeostasis in mice by de novo recruitment of brown adipocytes. *Science*, **2010**, 328, 1158-61	33.3	355
76	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 (416insG) mice. *Mammalian Genome*, **2010**, 21, 13-27	3.2	31

75	Loss of the actin remodeler Eps8 causes intestinal defects and improved metabolic status in mice. *PLoS ONE*, **2010**, 5, e9468	3.7	39
74	Dll1 haploinsufficiency in adult mice leads to a complex phenotype affecting metabolic and immunological processes. *PLoS ONE*, **2009**, 4, e6054	3.7	12
73	Inflammation and mitochondrial fatty acid beta-oxidation link obesity to early tumor promotion. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 3354-9	11.5	147
72	Gene-gene interaction between APOA5 and USF1: two candidate genes for the metabolic syndrome. *Obesity Facts*, **2009**, 2, 235-42	5.1	12
71	An intronic single base exchange leads to a brown adipose tissue-specific loss of Ucp3 expression and an altered body mass trajectory. *Physiological Genomics*, **2009**, 38, 54-62	3.6	8
70	Mitochondrial proton conductance in skeletal muscle of a cold-exposed marsupial, Antechinus flavipes, is unlikely to be involved in adaptive nonshivering thermogenesis but displays increased sensitivity toward carbon-centered radicals. *Physiological and Biochemical Zoology*, **2009**, 82, 447-54	2	8
69	Novel missense mutation of uromodulin in mice causes renal dysfunction with alterations in urea handling, energy, and bone metabolism. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F1391-8	4.3	35
68	The effects of fasting and cold exposure on metabolic rate and mitochondrial proton leak in liver and skeletal muscle of an amphibian, the cane toad Bufo marinus. *Journal of Experimental Biology*, **2009**, 212, 1234-1234	3	2
67	Molecular evolution of UCP1 and the evolutionary history of mammalian non-shivering thermogenesis. *BMC Evolutionary Biology*, **2009**, 9, 4	3	63
66	Mouse models for the central melanocortin system. *Genes and Nutrition*, **2009**, 4, 129-34	4.3	7
65	Photoperiodic regulation of satiety mediating neuropeptides in the brainstem of the seasonal Siberian hamster (Phodopus sungorus). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2009**, 195, 631-42	2.3	11
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