# Rudi Balling

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 166 papers | 15,984 citations | 17405 63 h-index | 17546 121 g-index |
| 178 all docs | 178 docs citations | 178 times ranked | 20347 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Immune-responsive gene 1 protein links metabolism to immunity by catalyzing itaconic acid production. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7820-7825. | 3.3 | 765 |
| 2 | Waardenburg's syndrome patients have mutations in the human homologue of the Pax-3 paired box gene. Nature, 1992, 355, 635-636. | 13.7 | 688 |
| 3 | Genome-wide, large-scale production of mutant mice by ENU mutagenesis. Nature Genetics, 2000, 25, 444-447. | 9.4 | 658 |
| 4 | Antagonistic Interactions between FGF and BMP Signaling Pathways: A Mechanism for Positioning the Sites of Tooth Formation. Cell, 1997, 90, 247-255. | 13.5 | 560 |
| 5 | Pax: A murine multigene family of paired box-containing genes. Genomics, 1991, 11, 424-434. | 1.3 | 424 |
| 6 | Degree of methylation of transgenes is dependent on gamete of origin. Nature, 1987, 328, 251-254. | 13.7 | 411 |
| 7 | De Novo Mutations in Synaptic Transmission Genes Including DNM1 Cause Epileptic Encephalopathies. American Journal of Human Genetics, 2014, 95, 360-370. | 2.6 | 388 |
| 8 | Variations of cervical vertebrate after expression of a Hox-1.1 transgene in mice. Cell, 1990, 61, 301-308. | 13.5 | 382 |
| 9 | Pax genes and organogenesis. BioEssays, 1997, 19, 755-765. | 1.2 | 360 |
| 10 | Impaired insulin secretory capacity in mice lacking a functional vitamin D receptor. FASEB Journal, 2003, 17, 1-14. | 0.2 | 360 |
| 11 | undulated, a mutation affecting the development of the mouse skeleton, has a point mutation in the paired box of Pax 1. Cell, 1988, 55, 531-535. | 13.5 | 332 |
| 12 | Teeth: where and how to make them. Trends in Genetics, 1999, 15, 59-65. | 2.9 | 331 |
| 13 | From hype to reality: data science enabling personalized medicine. BMC Medicine, 2018, 16, 150. | 2.3 | 278 |
| 14 | Deletion of Deoxyribonucleic Acid Binding Domain of the Vitamin D Receptor Abrogates Genomic and Nongenomic Functions of Vitamin D. Molecular Endocrinology, 2002, 16, 1524-1537. | 3.7 | 267 |
| 15 | Characterization and Developmental Expression of Pax9, a Paired-Box-Containing Gene Related to Pax1. Developmental Biology, 1995, 170, 701-716. | 0.9 | 266 |
| 16 | Craniofacial abnormalities induced by ectopic expression of the homeobox gene Hox-1.1 in transgenic mice. Cell, 1989, 58, 337-347. | 13.5 | 264 |
| 17 | Beethoven, a mouse model for dominant, progressive hearing loss DFNA36. Nature Genetics, 2002, 30, 257-258. | 9.4 | 246 |
| 18 | Integrating Pathways of Parkinson's Disease in a Molecular Interaction Map. Molecular Neurobiology, 2014, 49, 88-102. | 1.9 | 231 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Revolutionizing medicine in the 21<sup>st</sup> century through systems approaches. Biotechnology Journal, 2012, 7, 992-1001. | 1.8 | 225 |
| 20 | 1Â,25-dihydroxyvitamin D3 is a potent suppressor of interferon Â-mediated macrophage activation. Blood, 2005, 106, 4351-4358. | 0.6 | 221 |
| 21 | The hallmarks of <scp>P</scp>arkinson's disease. FEBS Journal, 2013, 280, 5981-5993. | 2.2 | 214 |
| 22 | The Notch ligand Jagged1 is required for inner ear sensory development. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3873-3878. | 3.3 | 206 |
| 23 | Humanized Mice for Modeling Human Infectious Disease: Challenges, Progress, and Outlook. Cell Host and Microbe, 2009, 6, 5-9. | 5.1 | 202 |
| 24 | Overexpression of activin A in the skin of transgenic mice reveals new activities of activin in epidermal morphogenesis, dermal fibrosis and wound repair. EMBO Journal, 1999, 18, 5205-5215. | 3.5 | 195 |
| 25 | The European dimension for the mouse genome mutagenesis program. Nature Genetics, 2004, 36, 925-927. | 9.4 | 195 |
| 26 | Neurodegeneration by Activation of the Microglial Complement-Phagosome Pathway. Journal of Neuroscience, 2014, 34, 8546-8556. | 1.7 | 192 |
| 27 | Making sense of big data in health research: Towards an EU action plan. Genome Medicine, 2016, 8, 71. | 3.6 | 190 |
| 28 | Singleâ€cell transcriptomics reveals distinct inflammationâ€induced microglia signatures. EMBO Reports, 2018, 19, . | 2.0 | 186 |
| 29 | Systems medicine and integrated care to combat chronic noncommunicable diseases. Genome Medicine, 2011, 3, 43. | 3.6 | 181 |
| 30 | Mutations in STX1B, encoding a presynaptic protein, cause fever-associated epilepsy syndromes. Nature Genetics, 2014, 46, 1327-1332. | 9.4 | 178 |
| 31 | The P4 Health Spectrum â€“ A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Cardiovascular Diseases, 2017, 59, 506-521. | 1.6 | 178 |
| 32 | Diseases as network perturbations. Current Opinion in Biotechnology, 2010, 21, 566-571. | 3.3 | 167 |
| 33 | The ventralizing effect of the notochord on somite differentiation in chick embryos. Anatomy and Embryology, 1993, 188, 239-45. | 1.5 | 163 |
| 34 | A gene for autosomal dominant sacral agenesis maps to the holoprosencephaly region at 7q36. Nature Genetics, 1995, 11, 93-95. | 9.4 | 150 |
| 35 | Global implementation of genomic medicine: We are not alone. Science Translational Medicine, 2015, 7, 290ps13. | 5.8 | 146 |
| 36 | Cloning and Expression Analysis of a Novel Mesodermally Expressed Cadherin. Developmental Biology, 1995, 169, 337-346. | 0.9 | 132 |

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|---|---|---|---|
| 37 | A novel Fanconi anaemia subtype associated with a dominant-negative mutation in RAD51. Nature Communications, 2015, 6, 8829. | 5.8 | 130 |
| 38 | The SOX10 / Sox10 gene from human and mouse: sequence, expression, and transactivation by the encoded HMG domain transcription factor. Human Genetics, 1998, 103, 115-123. | 1.8 | 129 |
| 39 | Pax1 and Pax9 activate Bapx1 to induce chondrogenic differentiation in the sclerotome. Development (Cambridge), 2003, 130, 473-482. | 1.2 | 128 |
| 40 | Systems genomics evaluation of the SH-SY5Y neuroblastoma cell line as a model for Parkinsonâ€™s disease. BMC Genomics, 2014, 15, 1154. | 1.2 | 126 |
| 41 | Functional Annotation of Mouse Genome Sequences. Science, 2001, 291, 1251-1255. | 6.0 | 125 |
| 42 | ENU MUTAGENESIS: Analyzing Gene Function in Mice. Annual Review of Genomics and Human Genetics, 2001, 2, 463-492. | 2.5 | 122 |
| 43 | Parkinsonâ€™s disease-associated alterations of the gut microbiome predict disease-relevant changes in metabolic functions. BMC Biology, 2020, 18, 62. | 1.7 | 122 |
| 44 | GARP: a key receptor controlling FOXP3 in human regulatory T cells. Journal of Cellular and Molecular Medicine, 2009, 13, 3343-3357. | 1.6 | 113 |
| 45 | Large scale ENU screens in the mouse: genetics meets genomics. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 400, 25-32. | 0.4 | 108 |
| 46 | Pax-1, a regulator of sclerotome development is induced by notochord and floor plate signals in avian embryos. Anatomy and Embryology, 1995, 191, 297-310. | 1.5 | 105 |
| 47 | A mouse model for valproate teratogenicity: parental effects, homeotic transformations, and altered HOX expression. Human Molecular Genetics, 2000, 9, 227-236. | 1.4 | 103 |
| 48 | Expression of AvianPax1andPax9Is Intrinsically Regulated in the Pharyngeal Endoderm, but Depends on Environmental Influences in the Paraxial Mesoderm. Developmental Biology, 1996, 178, 403-417. | 0.9 | 102 |
| 49 | Conditional inactivation ofSox9: A mouse model for campomelic dysplasia. Genesis, 2002, 32, 121-123. | 0.8 | 99 |
| 50 | COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. Scientific Data, 2020, 7, 136. | 2.4 | 99 |
| 51 | Targeted Disruption of the Peptide Transporter Pept2 Gene in Mice Defines Its Physiological Role in the Kidney. Molecular and Cellular Biology, 2003, 23, 3247-3252. | 1.1 | 96 |
| 52 | Recessive mutations inSLC13A5result in a loss of citrate transport and cause neonatal epilepsy, developmental delay and teeth hypoplasia. Brain, 2015, 138, 3238-3250. | 3.7 | 96 |
| 53 | Notochord-Dependent Expression of MFH1 and PAX1 Cooperates to Maintain the Proliferation of Sclerotome Cells during the Vertebral Column Development. Developmental Biology, 1999, 210, 15-29. | 0.9 | 95 |
| 54 | Hydrogen Peroxide-Mediated Killing of Caenorhabditis elegans by Streptococcus pyogenes. Infection and Immunity, 2002, 70, 5202-5207. | 1.0 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Critical transitions in chronic disease: transferring concepts from ecology to systems medicine. Current Opinion in Biotechnology, 2015, 34, 48-55. | 3.3 | 86 |
| 56 | Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms. Npj Systems Biology and Applications, 2018, 4, 21. | 1.4 | 84 |
| 57 | Evaluating the Use of Circulating MicroRNA Profiles for Lung Cancer Detection in Symptomatic Patients. JAMA Oncology, 2020, 6, 714. | 3.4 | 84 |
| 58 | Pax genes and organogenesis: Pax9 meets tooth development. European Journal of Oral Sciences, 1998, 106, 38-43. | 0.7 | 83 |
| 59 | A Recurrent Missense Variant in AP2M1 Impairs Clathrin-Mediated Endocytosis and Causes Developmental and Epileptic Encephalopathy. American Journal of Human Genetics, 2019, 104, 1060-1072. | 2.6 | 78 |
| 60 | Zic1 regulates the patterning of vertebral arches in cooperation with Gli3. Mechanisms of Development, 1999, 89, 141-150. | 1.7 | 76 |
| 61 | Interaction between undulated and Patch leads to an extreme form of spina bifida in double-mutant mice. Nature Genetics, 1995, 11, 60-63. | 9.4 | 75 |
| 62 | Mice, microbes and models of infection. Nature Reviews Genetics, 2003, 4, 195-205. | 7.7 | 75 |
| 63 | Thymopoiesis requiresPax9 function in thymic epithelial cells. European Journal of Immunology, 2002, 32, 1175-1181. | 1.6 | 74 |
| 64 | Loss of SYNJ1 dual phosphatase activity leads to early onset refractory seizures and progressive neurological decline. Brain, 2016, 139, 2420-2430. | 3.7 | 70 |
| 65 | MINERVAâ€"a platform for visualization and curation of molecular interaction networks. Npj Systems Biology and Applications, 2016, 2, 16020. | 1.4 | 68 |
| 66 | Mutation in the Î²A3/A1-Crystallin Encoding Gene Cryba1 Causes a Dominant Cataract in the Mouse. Genomics, 1999, 62, 67-73. | 1.3 | 67 |
| 67 | Reverse engineering and verification of gene networks: Principles, assumptions, and limitations of present methods and future perspectives. Journal of Biotechnology, 2009, 144, 190-203. | 1.9 | 67 |
| 68 | Gene Regulatory Network Inference of Immunoresponsive Gene 1 (IRG1) Identifies Interferon Regulatory Factor 1 (IRF1) as Its Transcriptional Regulator in Mammalian Macrophages. PLoS ONE, 2016, 11, e0149050. | 1.1 | 66 |
| 69 | Parkinsonâ€™s disease mouse models in translational research. Mammalian Genome, 2011, 22, 401-419. | 1.0 | 65 |
| 70 | Systems Medicine Approaches for the Definition of Complex Phenotypes in Chronic Diseases and Ageing. From Concept to Implementation and Policies. Current Pharmaceutical Design, 2014, 20, 5928-5944. | 0.9 | 63 |
| 71 | Progressive loss of PAX9 expression correlates with increasing malignancy of dysplastic and cancerous epithelium of the human oesophagus. Journal of Pathology, 2002, 197, 293-297. | 2.1 | 60 |
| 72 | Respiratory mechanics in mice: strain and sex specific differences. Acta Physiologica Scandinavica, 2002, 174, 367-375. | 2.3 | 58 |

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|---|---|---|---|
| 73 | The role of regulatory T cells in neurodegenerative diseases. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 153-180. | 6.6 | 58 |
| 74 | The Luxembourg Parkinsonâ€™s Study: A Comprehensive Approach for Stratification and Early Diagnosis. Frontiers in Aging Neuroscience, 2018, 10, 326. | 1.7 | 57 |
| 75 | PLAU inferred from a correlation network is critical for suppressor function of regulatory T cells. Molecular Systems Biology, 2012, 8, 624. | 3.2 | 54 |
| 76 | The clinical-chemical screen in the Munich ENU Mouse Mutagenesis Project: screening for clinically relevant phenotypes. Mammalian Genome, 2000, 11, 543-546. | 1.0 | 53 |
| 77 | COVID19 Disease Map, a computational knowledge repository of virusâ€“host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387. | 3.2 | 53 |
| 78 | Characterization of a Mutation in the Lens-specific MP70 Encoding Gene of the Mouse Leading to a Dominant Cataract. Experimental Eye Research, 2001, 73, 867-876. | 1.2 | 52 |
| 79 | The battle of two genomes: genetics of bacterial host/pathogen interactions in mice. Mammalian Genome, 2001, 12, 261-271. | 1.0 | 52 |
| 80 | Analysis of limb patterning in BMP-7-deficient mice. Genesis, 1996, 19, 43-50. | 3.1 | 51 |
| 81 | A new Pax gene, Pax-9, maps to mouse Chromosome 12. Mammalian Genome, 1993, 4, 354-358. | 1.0 | 50 |
| 82 | ROS networks: designs, aging, Parkinsonâ€™s disease and precision therapies. Npj Systems Biology and Applications, 2020, 6, 34. | 1.4 | 50 |
| 83 | Similar Î±â€synuclein staining in the colon mucosa in patients with Parkinson's disease and controls. Movement Disorders, 2016, 31, 1567-1570. | 2.2 | 48 |
| 84 | Influenza H3N2 infection of the collaborative cross founder strains reveals highly divergent host responses and identifies a unique phenotype in CAST/EiJ mice. BMC Genomics, 2016, 17, 143. | 1.2 | 48 |
| 85 | Community-driven roadmap for integrated disease maps. Briefings in Bioinformatics, 2019, 20, 659-670. | 3.2 | 48 |
| 86 | Common diseases alter the physiological age-related blood microRNA profile. Nature Communications, 2020, 11, 5958. | 5.8 | 46 |
| 87 | A roadmap towards personalized immunology. Npj Systems Biology and Applications, 2018, 4, 9. | 1.4 | 43 |
| 88 | A rare loss-of-function variant of ADAM17 is associated with late-onset familial Alzheimer disease. Molecular Psychiatry, 2020, 25, 629-639. | 4.1 | 42 |
| 89 | Integration and Visualization of Translational Medicine Data for Better Understanding of Human Diseases. Big Data, 2016, 4, 97-108. | 2.1 | 41 |
| 90 | The large-scale Munich ENU-mouse-mutagenesis screen. Mammalian Genome, 2000, 11, 507-510. | 1.0 | 40 |

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|---|---|---|---|
| 91 | Toward Omics-Based, Systems Biomedicine, and Path and Drug Discovery Methodologies for Depression-Inflammation Research. Molecular Neurobiology, 2016, 53, 2927-2935. | 1.9 | 40 |
| 92 | Reliable recovery of inbred mouse lines using cryopreserved spermatozoa. Mammalian Genome, 1999, 10, 773-776. | 1.0 | 38 |
| 93 | Screening for dysmorphological abnormalitiesâ€"a powerful tool to isolate new mouse mutants. Mammalian Genome, 2000, 11, 528-530. | 1.0 | 38 |
| 94 | Reduced intragraft mRNA expression of matrix metalloproteinases Mmp3, Mmp12, Mmp13 and Adam8, and diminished transplant arteriosclerosis in Ccr5-deficient mice. European Journal of Immunology, 2004, 34, 2568-2578. | 1.6 | 38 |
| 95 | Tailchaser (Tlc): a new mouse mutation affecting hair bundle differentiation and hair cell survival. Journal of Neurocytology, 1999, 28, 969-985. | 1.6 | 37 |
| 96 | MICâ€MAC: An automated pipeline for highâ€throughput characterization and classification of threeâ€dimensional microglia morphologies in mouse and human postmortem brain samples. Glia, 2019, 67, 1496-1509. | 2.5 | 36 |
| 97 | A locus for radiation-induced gastroschisis on mouse Chromosome 7. Mammalian Genome, 1998, 9, 995-997. | 1.0 | 35 |
| 98 | Murine genes with homology to Drosophila segmentation genes. Development (Cambridge), 1988, 104, 181-186. | 1.2 | 35 |
| 99 | In Situ Gene Expression Analysis During BMP2-induced Ectopic Bone Formation in Mice Shows Simultaneous Endochondral and Intramembranous Ossification. Growth Factors, 2003, 20, 197-210. | 0.5 | 33 |
| 100 | Rare GABRA3 variants are associated with epileptic seizures, encephalopathy and dysmorphic features. Brain, 2017, 140, 2879-2894. | 3.7 | 33 |
| 101 | Emergence of the silicon human and network targeting drugs. European Journal of Pharmaceutical Sciences, 2012, 46, 190-197. | 1.9 | 32 |
| 102 | A Systems Medicine Clinical Platform for Understanding and Managing Non- Communicable Diseases. Current Pharmaceutical Design, 2014, 20, 5945-5956. | 0.9 | 32 |
| 103 | The biochemical metabolite screen in the Munich ENU Mouse Mutagenesis Project: determination of amino acids and acylcarnitines by tandem mass spectrometry. Mammalian Genome, 2000, 11, 547-551. | 1.0 | 31 |
| 104 | The Mouse Brain Metabolome. American Journal of Pathology, 2015, 185, 1699-1712. | 1.9 | 31 |
| 105 | Spatio-temporal distribution of chondromodulin-I mRNA in the chicken embryo: Expression during cartilage development and formation of the heart and eye. , 1999, 216, 233-243. | | 30 |
| 106 | Neurodegeneration and neuroinflammation are linked, but independent of alphaâ€synuclein inclusions, in a seeding/spreading mouse model of Parkinson's disease. Glia, 2022, 70, 935-960. | 2.5 | 30 |
| 107 | Structure, expression and chromosomal localization of Zfp-1, a murine zinc finger protein gene. Nucleic Acids Research, 1989, 17, 10427-10438. | 6.5 | 28 |
| 108 | PAX1, a member of the paired box-containing class of developmental control genes, is mapped to human chromosome 20p11.2 by in Situ hybridization (ISH and FISH). Genomics, 1992, 14, 740-744. | 1.3 | 28 |

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|---|---|---|---|
| 109 | Inhibitory action of BMPs onPax1 expression and on shoulder girdle formation during limb development. Developmental Dynamics, 1998, 213, 199-206. | 0.8 | 27 |
| 110 | Deep sequencing of sncRNAs reveals hallmarks and regulatory modules of the transcriptome during Parkinsonâ€™s disease progression. Nature Aging, 2021, 1, 309-322. | 5.3 | 26 |
| 111 | Pax Genes and Skeletal Development. Annals of the New York Academy of Sciences, 1996, 785, 27-33. | 1.8 | 25 |
| 112 | Pax genes and sclerotome development. Seminars in Cell and Developmental Biology, 1996, 7, 129-136. | 2.3 | 25 |
| 113 | From Systems Biology to Systems Biomedicine. Current Opinion in Biotechnology, 2012, 23, 604-608. | 3.3 | 24 |
| 114 | V76D mutation in a conserved gD-crystallin region leads to dominant cataracts in mice. Mammalian Genome, 2002, 13, 452-455. | 1.0 | 23 |
| 115 | Identification of immunological relevant phenotypes in ENU mutagenized mice. Mammalian Genome, 2000, 11, 526-527. | 1.0 | 22 |
| 116 | Exome-wide analysis of mutational burden in patients with typical and atypical Rolandic epilepsy. European Journal of Human Genetics, 2018, 26, 258-264. | 1.4 | 22 |
| 117 | A comprehensive and comparative phenotypic analysis of the collaborative founder strains identifies new and known phenotypes. Mammalian Genome, 2020, 31, 30-48. | 1.0 | 22 |
| 118 | Cadherin-11 is highly expressed in rhabdomyosarcomas and during differentiation of myoblastsin vitro. , 1999, 187, 164-172. | | 19 |
| 119 | PARK7/DJ-1 promotes pyruvate dehydrogenase activity and maintains Treg homeostasis during ageing. Nature Metabolism, 2022, 4, 589-607. | 5.1 | 18 |
| 120 | Large-scale N-ethyl-N-nitrosourea mutagenesis of mice - from phenotypes to genes. Experimental Physiology, 2000, 85, 635-643. | 0.9 | 17 |
| 121 | Comparative analysis of the genomic organization of Pax9 and its conserved physical association with Nkx2-9 in the human, mouse, and pufferfish genomes. Mammalian Genome, 2001, 12, 232-237. | 1.0 | 17 |
| 122 | Understanding complexity in neurodegenerative diseases: in silico reconstruction of emergence. Frontiers in Physiology, 2012, 3, 291. | 1.3 | 16 |
| 123 | Recessive mutations in SLC35A3 cause early onset epileptic encephalopathy with skeletal defects. American Journal of Medical Genetics, Part A, 2017, 173, 1119-1123. | 0.7 | 16 |
| 124 | Ethylnitrosourea-Induced Mutation in Mice Leads to the Expression of a Novel Protein in the Eye and to Dominant Cataracts. Genetics, 2001, 157, 1313-1320. | 1.2 | 15 |
| 125 | Identification of VIMP as a gene inhibiting cytokine production in human CD4+ effector TÂcells. IScience, 2021, 24, 102289. | 1.9 | 14 |
| 126 | Large-Scale N -Ethyl-N -Nitrosourea Mutagenesis of Mice - from Phenotypes to Genes. Experimental Physiology, 2000, 85, 635-643. | 0.9 | 13 |

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|---|---|---|---|
| 127 | Connecting environmental exposure and neurodegeneration using cheminformatics and high resolution mass spectrometry: potential and challenges. Environmental Sciences: Processes and Impacts, 2019, 21, 1426-1445. | 1.7 | 13 |
| 128 | Finding and sharing: new approaches to registries of databases and services for the biomedical sciences. Database: the Journal of Biological Databases and Curation, 2010, 2010, baq014-baq014. | 1.4 | 12 |
| 129 | Platelet mitochondrial membrane potential in Parkinson's disease. Annals of Clinical and Translational Neurology, 2015, 2, 67-73. | 1.7 | 12 |
| 130 | Rare ABCA7 variants in 2 German families with Alzheimer disease. Neurology: Genetics, 2018, 4, e224. | 0.9 | 12 |
| 131 | Fine genetic mapping of the proximal part of mouse Chromosome 2 excludes Pax-8 as a candidate gene for Danforth's short tail (Sd). Mammalian Genome, 1993, 4, 324-327. | 1.0 | 11 |
| 132 | Dynamic cumulative activity of transcription factors as a mechanism of quantitative gene regulation. Genome Biology, 2007, 8, R181. | 13.9 | 11 |
| 133 | Genetic and molecular control of folate-homocysteine metabolism in mutant mice. Mammalian Genome, 2002, 13, 259-267. | 1.0 | 10 |
| 134 | The P4 Health Spectrum â€“ A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e0002. | 0.7 | 10 |
| 135 | Standard Peripheral Blood Mononuclear Cell Cryopreservation Selectively Decreases Detection of Nine Clinically Relevant T Cell Markers. ImmunoHorizons, 2021, 5, 711-720. | 0.8 | 10 |
| 136 | A nonâ€functioning vitamin D receptor predisposes to leukaemoid reactions in mice. Hematological Oncology, 2010, 28, 185-191. | 0.8 | 9 |
| 137 | DJâ€1 depletion prevents immunoaging in Tâ€cell compartments. EMBO Reports, 2022, 23, e53302. | 2.0 | 9 |
| 138 | Molecular basis for skeletal variation: insights from developmental genetic studies in mice. Birth Defects Research Part B: Developmental and Reproductive Toxicology, 2007, 80, 425-450. | 1.4 | 8 |
| 139 | Mitochondria interaction networks show altered topological patterns in Parkinsonâ€™s disease. Npj Systems Biology and Applications, 2020, 6, 38. | 1.4 | 7 |
| 140 | The molecular and genetic analysis of mouse development. FEBS Journal, 1992, 204, 5-11. | 0.2 | 6 |
| 141 | Accelerating the Development and Validation of New Value-Based Diagnostics by Leveraging Biobanks. Public Health Genomics, 2016, 19, 160-169. | 0.6 | 6 |
| 142 | Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e006. | 0.7 | 6 |
| 143 | Functional Genomics, Proteomics, Metabolomics and Bioinformatics for Systems Biology. , 2013, , 3-41. | | 5 |
| 144 | Large-scale validation of miRNAs by disease association, evolutionary conservation and pathway activity. RNA Biology, 2019, 16, 93-103. | 1.5 | 5 |

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|---|---|---|---|
| 145 | From mouse genetics to systems biology. Mammalian Genome, 2007, 18, 383-388. | 1.0 | 4 |
| 146 | Maintaining Your Immune System--One Method for Enhanced Longevity. Science of Aging Knowledge Environment: SAGE KE, 2004, 2004, 2pe-2. | 0.9 | 4 |
| 147 | Mapping of the Mod-1 locus on mouse Chromosome 9. Mammalian Genome, 1993, 4, 333-337. | 1.0 | 3 |
| 148 | From parathyroid to thymus, via glial cells. Nature Medicine, 2000, 6, 860-861. | 15.2 | 3 |
| 149 | Neurological Diseases from a Systems Medicine Point of View. Methods in Molecular Biology, 2016, 1386, 221-250. | 0.4 | 3 |
| 150 | Genes associated with Parkinson's disease respond to increasing polychlorinated biphenyl levels in the blood of healthy females. Environmental Pollution, 2019, 250, 107-117. | 3.7 | 3 |
| 151 | COVID-19 and beyond:Âa call for action andÂaudacious solidarity to all the citizens and nations,Âit is humanityâ€™s fight. F1000Research, 0, 9, 1130. | 0.8 | 3 |
| 152 | On Different Aspects of Network Analysis in Systems Biology. , 2013, , 181-207. | | 3 |
| 153 | The genetic map around the tail kinks (tk) locus on mouse Chromosome 9. Mammalian Genome, 1993, 4, 560-564. | 1.0 | 2 |
| 154 | â€œ4D Biology for health and diseaseâ€•workshop report. New Biotechnology, 2011, 28, 291-293. | 2.4 | 2 |
| 155 | Quantitative trait locus mapping identifies a locus linked toÂstriatal dopamine and points to collagen ‹scp›IV‹/scp› alphaâ€6 chain asÂa novel regulator of striatal axonal branching in mice. Genes, Brain and Behavior, 2021, 20, e12769. | 1.1 | 2 |
| 156 | Computational Infrastructures for Data and Knowledge Management in Systems Biology. , 2013, , 377-397. | | 2 |
| 157 | Moratorium call. Nature, 1988, 334, 560-560. | 13.7 | 1 |
| 158 | Development(s) in mouse genetics. Biochemistry and Cell Biology, 1990, 68, 404-407. | 0.9 | 0 |
| 159 | Whose law for sharing research tools?. Nature, 1998, 396, 509-509. | 13.7 | 0 |
| 160 | From Developmental Biology to Developmental Toxicology. Annals of the New York Academy of Sciences, 2000, 919, 239-245. | 1.8 | 0 |
| 161 | Der neue VBIO: Weichenstellungen fÃ¼r die Zukunft der Biowissenschaften. Biologie in Unserer Zeit, 2007, 37, 275-275. | 0.3 | 0 |
| 162 | Sudden and unexpected. Nature Genetics, 2007, 39, 1422-1423. | 9.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | From Diagnosing Diseases to Predicting Diseases. , 2019, , 95-103. | | 0 |
| 164 | Workshop Report: Systems Genetics of Neurodegenerative Disease, a Summer School in Systems Medicine, 25th Augustâ˜1st September 2017. Frontiers in Genetics, 2019, 10, 29. | 1.1 | 0 |
| 165 | Presenting and sharing clinical data using the eTRIKS Standards Master Tree for tranSMART. Bioinformatics, 2019, 35, 1562-1565. | 1.8 | 0 |
| 166 | The molecular and genetic analysis of mouse development. , 1993, , 35-41. | | 0 |