Paul N Schofield

List of Publications by Year
in descending order

134 papers	5,982 citations	87843 38 h-index	88593 70 g-index
159 all docs	159 docs citations	159 times ranked	9080 citing authors

#	Article	IF	Citations
1	Bio-acoustic signaling; exploring the potential of sound as a mediator of low-dose radiation and stress responses in the environment. International Journal of Radiation Biology, 2022, 98, 1083-1097.	1.0	10
2	From tangled banks to toxic bunnies; a reflection on the issues involved in developing an ecosystem approach for environmental radiation protection. International Journal of Radiation Biology, 2022, 98, 1185-1200.	1.0	17
3	The GA4GH Phenopacket schema defines a computable representation of clinical data. Nature Biotechnology, 2022, 40, 817-820.	9.4	38
4	Contribution of model organism phenotypes to the computational identification of human disease genes. DMM Disease Models and Mechanisms, 2022, 15, .	1.2	5
5	Linking common human diseases to their phenotypes; development of a resource for human phenomics. Journal of Biomedical Semantics, 2021, 12, 17.	0.9	6
6	Multi-faceted semantic clustering with text-derived phenotypes. Computers in Biology and Medicine, 2021, 138, 104904.	3.9	3
7	Exploring Sentiment as a Potential Indicator of Bias in Disease Ontologies. , 2021, , .		0
8	DDIEM: drug database for inborn errors of metabolism. Orphanet Journal of Rare Diseases, 2020, 15, 146.	1.2	9
9	PATHBIO: an international training program for precision mouse phenotyping. Mammalian Genome, 2020, 31, 49-53.	1.0	2
10	Establishing the Japan-Store house of animal radiobiology experiments (J-SHARE), a large-scale necropsy and histopathology archive providing international access to important radiobiology data. International Journal of Radiation Biology, 2019, 95, 1372-1377.	1.0	25
11	Hyaline Arteriolosclerosis in 30 Strains of Aged Inbred Mice. Veterinary Pathology, 2019, 56, 799-806.	0.8	3
12	FAIRing the radiation science commons. BIO Web of Conferences, 2019, 14, 08002.	0.1	0
13	PathoPhenoDB, linking human pathogens to their phenotypes in support of infectious disease research. Scientific Data, 2019, 6, 79.	2.4	13
14	Big data in radiation biology and epidemiology; an overview of the historical and contemporary landscape of data and biomaterial archives. International Journal of Radiation Biology, 2019, 95, 861-878.	1.0	16
15	Quantitative evaluation of ontology design patterns for combining pathology and anatomy ontologies. Scientific Reports, 2019, 9, 4025.	1.6	13
16	SURVEY ON DATA MANAGEMENT IN RADIATION PROTECTION RESEARCH. Radiation Protection Dosimetry, 2019, 183, 233-236.	0.4	3
17	DeepPVP: phenotype-based prioritization of causative variants using deep learning. BMC Bioinformatics, 2019, 20, 65.	1.2	49
18	Ontology-based prediction of cancer driver genes. Scientific Reports, 2019, 9, 17405.	1.6	16

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19	Nail abnormalities identified in an ageing study of 30 inbred mouse strains. Experimental Dermatology, 2019, 28, 383-390.	1.4	8
20	When a duck is not a duck; a new interdisciplinary synthesis for environmental radiation protection. Environmental Research, 2018, 162, 318-324.	3.7	15
21	Evolving paradigms for the biological response to low dose ionizing radiation; the role of epigenetics. International Journal of Radiation Biology, 2018, 94, 769-781.	1.0	28
22	The anatomy of phenotype ontologies: principles, properties and applications. Briefings in Bioinformatics, 2018, 19, 1008-1021.	3.2	66
23	Living inside the box: environmental effects on mouse models of human disease. DMM Disease Models and Mechanisms, 2018, 11, .	1.2	25
24	OligoPVP: Phenotype-driven analysis of individual genomic information to prioritize oligogenic disease variants. Scientific Reports, 2018, 8, 14681.	1.6	8
25	A Review of Current Standards and the Evolution of Histopathology Nomenclature for Laboratory Animals. ILAR Journal, 2018, 59, 29-39.	1.8	15
26	Ontology-based validation and identification of regulatory phenotypes. Bioinformatics, 2018, 34, i857-i865.	1.8	5
27	Reproducibility of histopathological findings in experimental pathology of the mouse: a sorry tail. Lab Animal, 2017, 46, 146-151.	0.2	36
28	Systematic screening for skin, hair, and nail abnormalities in a large-scale knockout mouse program. PLoS ONE, 2017, 12, e0180682.	1.1	14
29	Semantic prioritization of novel causative genomic variants. PLoS Computational Biology, 2017, 13, e1005500.	1.5	28
30	Integrating phenotype ontologies with PhenomeNET. Journal of Biomedical Semantics, 2017, 8, 58.	0.9	28
31	The Informatics of Developmental Phenotypes. , 2016, , 307-318.		3
32	Show and tell: disclosure and data sharing in experimental pathology. DMM Disease Models and Mechanisms, 2016, 9, 601-605.	1.2	8
33	DermO; an ontology for the description of dermatologic disease. Journal of Biomedical Semantics, 2016, 7, 38.	0.9	8
34	Datamining with Ontologies. Methods in Molecular Biology, 2016, 1415, 385-397.	0.4	2
35	Experiences with Aber-OWL, an Ontology Repository with OWL EL Reasoning. Lecture Notes in Computer Science, 2016, , 81-86.	1.0	0
36	Mouse genome-wide association study identifies polymorphisms on chromosomes 4, 11, and 15 for age-related cardiac fibrosis. Mammalian Genome, 2016, 27, 179-190.	1.0	13

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37	Living Long and Well: Prospects for a Personalized Approach to the Medicine of Ageing. Gerontology, 2016, 62, 409-416.	1.4	11
38	Genome wide conditional mouse knockout resources. Drug Discovery Today: Disease Models, 2016, 20, 3-12.	1.2	3
39	Using AberOWL for fast and scalable reasoning over BioPortal ontologies. Journal of Biomedical Semantics, 2016, 7, 49.	0.9	14
40	Genetic determinants of fibro-osseous lesions in aged inbred mice. Experimental and Molecular Pathology, 2016, 100, 92-100.	0.9	10
41	The Human Phenotype Ontology: Semantic Unification of Common and Rare Disease. American Journal of Human Genetics, 2015, 97, 111-124.	2.6	203
42	Dsprul: A spontaneous mouse mutation in desmoplakin as a model of Carvajal-Huerta syndrome. Experimental and Molecular Pathology, 2015, 98, 164-172.	0.9	13
43	Best behaviour? Ontologies and the formal description of animal behaviour. Mammalian Genome, 2015, 26, 540-547.	1.0	4
44	Analysis of the human diseasome using phenotype similarity between common, genetic and infectious diseases. Scientific Reports, 2015, 5, 10888.	1.6	85
45	Aber-OWL: a framework for ontology-based data access in biology. BMC Bioinformatics, 2015, 16, 26.	1.2	68
46	Similarity-based search of model organism, disease and drug effect phenotypes. Journal of Biomedical Semantics, 2015, 6, 6.	0.9	8
47	The role of ontologies in biological and biomedical research: a functional perspective. Briefings in Bioinformatics, 2015, 16, 1069-1080.	3.2	199
48	Excavating the Genome: Large-Scale Mutagenesis Screening for the Discovery of New Mouse Models. Journal of Investigative Dermatology Symposium Proceedings, 2015, 17, 27-29.	0.8	2
49	Mouse model phenotypes provide information about human drug targets. Bioinformatics, 2014, 30, 719-725.	1.8	38
50	Inbred mouse strains reveal biomarkers that are proâ€longevity, antilongevity or role switching. Aging Cell, 2014, 13, 729-738.	3.0	17
51	Identifying mouse models for skin cancer using the Mouse Tumor Biology Database. Experimental Dermatology, 2014, 23, 761-763.	1.4	7
52	Deletions of chromosomal regulatory boundaries are associated with congenital disease. Genome Biology, 2014, 15, 423.	3.8	144
53	Analyzing gene expression data in mice with the Neuro Behavior Ontology. Mammalian Genome, 2014, 25, 32-40.	1.0	19
54	The Human Phenotype Ontology project: linking molecular biology and disease through phenotype data. Nucleic Acids Research, 2014, 42, D966-D974.	6.5	698

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55	The Cinderella Effect: Searching for the Best Fit between Mouse Models and Human Diseases. Journal of Investigative Dermatology, 2013, 133, 2509-2513.	0.3	15
56	A decadal view of biodiversity informatics: challenges and priorities. BMC Ecology, 2013, 13, 16.	3.0	110
57	The mouse pathology ontology, MPATH; structure and applications. Journal of Biomedical Semantics, 2013, 4, 18.	0.9	32
58	An integrative, translational approach to understanding rare and orphan genetically based diseases. Interface Focus, 2013, 3, 20120055.	1.5	16
59	Phenotypic overlap in the contribution of individual genes to CNV pathogenicity revealed by cross-species computational analysis of single-gene mutations in humans, mice and zebrafish. DMM Disease Models and Mechanisms, 2013, 6, 358-72.	1.2	43
60	Systematic Analysis of Experimental Phenotype Data Reveals Gene Functions. PLoS ONE, 2013, 8, e60847.	1.1	19
61	Construction and accessibility of a cross-species phenotype ontology along with gene annotations for biomedical research. F1000Research, 2013, 2, 30.	0.8	72
62	Construction and accessibility of a cross-species phenotype ontology along with gene annotations for biomedical research. F1000Research, 2013, 2, 30.	0.8	64
63	Exploring the elephant: histopathology in high-throughput phenotyping of mutant mice. DMM Disease Models and Mechanisms, 2012, 5, 19-25.	1.2	32
64	The Units Ontology: a tool for integrating units of measurement in science. Database: the Journal of Biological Databases and Curation, 2012, 2012, bas033-bas033.	1.4	78
65	Computational tools for comparative phenomics: the role and promise of ontologies. Mammalian Genome, 2012, 23, 669-679.	1.0	19
66	The mammalian gene function resource: the international knockout mouse consortium. Mammalian Genome, 2012, 23, 580-586.	1.0	292
67	Diversity of Spontaneous Neoplasms in Commonly Used Inbred Strains of Laboratory Mice. , 2012, , 411-426.		6
68	The Neurobehavior Ontology. International Review of Neurobiology, 2012, 103, 69-87.	0.9	31
69	Mouse genetic and phenotypic resources for human genetics. Human Mutation, 2012, 33, 826-836.	1.1	58
70	Integration of global resources for human genetic variation and disease. Human Mutation, 2012, 33, 813-816.	1.1	9
71	MouseFinder: Candidate disease genes from mouse phenotype data. Human Mutation, 2012, 33, 858-866.	1.1	53
72	Linking PharmGKB to phenotype studies and animal models of disease for drug repurposing. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2012, , 388-99.	0.7	18

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73	LINKING PHARMGKB TO PHENOTYPE STUDIES AND ANIMAL MODELS OF DISEASE FOR DRUG REPURPOSING. , 2011, , .		9
74	The mouse as a model for understanding chronic diseases of aging: the histopathologic basis of aging in inbred mice. Pathobiology of Aging & Age Related Diseases, 2011, 1, 7179.	1.1	78
75	Interoperability between Biomedical Ontologies through Relation Expansion, Upper-Level Ontologies and Automatic Reasoning. PLoS ONE, 2011, 6, e22006.	1.1	38
76	Anatomy ontologies and potential users: bridging the gap. Journal of Biomedical Semantics, 2011, 2, S3.	0.9	6
77	Improving ontologies by automatic reasoning and evaluation of logical definitions. BMC Bioinformatics, 2011, 12, 418.	1.2	29
78	PhenomeNET: a whole-phenome approach to disease gene discovery. Nucleic Acids Research, 2011, 39, e119-e119.	6.5	195
79	Towards BioDBcore: a community-defined information specification for biological databases. Database: the Journal of Biological Databases and Curation, 2011, 2011, baq027-baq027.	1.4	30
80	Towards BioDBcore: a community-defined information specification for biological databases. Nucleic Acids Research, 2011, 39, D7-D10.	6.5	32
81	New approaches to the representation and analysis of phenotype knowledge in human diseases and their animal models. Briefings in Functional Genomics, 2011, 10, 258-265.	1.3	18
82	A common layer of interoperability for biomedical ontologies based on OWL EL. Bioinformatics, 2011, 27, 1001-1008.	1.8	35
83	Pathology of the Laboratory Mouse. Toxicologic Pathology, 2011, 39, 559-562.	0.9	17
84	Towards the integration of mouse databases - definition and implementation of solutions to two use-cases in mouse functional genomics. BMC Research Notes, 2010, 3, 16.	0.6	3
85	Archiving lessons from radiobiology. Nature, 2010, 468, 634-634.	13.7	7
86	Mouse Resource Browser--a database of mouse databases. Database: the Journal of Biological Databases and Curation, 2010, 2010, baq010-baq010.	1.4	3
87	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
88	XGAP: a uniform and extensible data model and software platform for genotype and phenotype experiments. Genome Biology, 2010, 11, R27.	13.9	20
89	Sustaining the Data and Bioresource Commons. Science, 2010, 330, 592-593.	6.0	52
90	Phenotype ontologies for mouse and man: bridging the semantic gap. DMM Disease Models and Mechanisms, 2010, 3, 281-289.	1.2	39

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91	Entity/quality-based logical definitions for the human skeletal phenome using PATO. , 2009, 2009, 7069-72.		67
92	Models for financial sustainability of biological databases and resources. Database: the Journal of Biological Databases and Curation, 2009, 2009, bap017-bap017.	1.4	27
93	One Medicine, One Pathology, and the One Health concept. Journal of the American Veterinary Medical Association, 2009, 234, 1530-1531.	0.2	26
94	Mouse, man, and meaning: bridging the semantics of mouse phenotype and human disease. Mammalian Genome, 2009, 20, 457-461.	1.0	21
95	A Mouse by Any Other Name â€¦. Journal of Investigative Dermatology, 2009, 129, 1599-1601.	0.3	12
96	PRIME importance of pathology expertise. Nature Biotechnology, 2009, 27, 24-25.	9.4	17
97	Prepublication data sharing. Nature, 2009, 461, 168-170.	13.7	243
98	Post-publication sharing of data and tools. Nature, 2009, 461, 171-173.	13.7	142
99	Integrating mouse anatomy and pathology ontologies into a phenotyping database: Tools for data capture and training. Mammalian Genome, 2008, 19, 413-419.	1.0	42
100	Abnormal skeletal and cardiac development, cardiomyopathy, muscle atrophy and cataracts in mice with a targeted disruption of the Nov (Ccn3) gene. BMC Developmental Biology, 2008, 8, 18.	2.1	76
101	Towards a Disease Ontology. Computational Biology, 2008, , 119-130.	0.1	3
102	The Mouse Resource Browser (MRB) - A near-complete registry of mouse resources. , 2008, , .		1
103	Digital preservation - financial sustainability of biological data and material resources. , 2008, , .		1
104	CASIMIR: Coordination and Sustainability of International Mouse Informatics Resources. , 2008, , .		7
105	Solutions for data integration in functional genomics: a critical assessment and case study. Briefings in Bioinformatics, 2008, 9, 532-544.	3.2	23
106	Towards dynamic database infrastructures for mouse genetics. , 2008, , .		1
107	STATE COMPLEXITY OF ADDITIVE WEIGHTED FINITE AUTOMATA. International Journal of Foundations of Computer Science, 2007, 18, 1407-1416.	0.8	16
108	Integration of mouse phenome data resources. Mammalian Genome, 2007, 18, 157-163.	1.0	44

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109	Radiation, Oxidative Stress and Senescence; The Vascular Endothelial Cell as a Common Target. NATO Science for Peace and Security Series C: Environmental Security, 2007, , 325-334.	0.1	5
110	Radiation-induced genomic instability is associated with DNA methylation changes in cultured human keratinocytes. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 597, 87-97.	0.4	78
111	Molecular subtypes and phenotypic expression of Beckwithâ€“Wiedemann syndrome. European Journal of Human Genetics, 2005, 13, 1025-1032.	1.4	284
112	Pathbase: a database of mutant mouse pathology. Nucleic Acids Research, 2004, 32, 512D-515.	6.5	49
113	Pathbase: a new reference resource and database for laboratory mouse pathology. Radiation Protection Dosimetry, 2004, 112, 525-528.	0.4	21
114	Frequent RASSF1A tumour suppressor gene promoter methylation in Wilms' tumour and colorectal cancer. Oncogene, 2002, 21, 7277-7282.	2.6	82
115	Genomic imprinting and cancer; new paradigms in the genetics of neoplasia. Toxicology Letters, 2001, 120, 151-160.	0.4	41
116	Altered Expression of novH Is Associated with Human Adrenocortical Tumorigenesis. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 3929-3940.	1.8	40
117	Altered Expression of novH Is Associated with Human Adrenocortical Tumorigenesis. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 3929-3940.	1.8	15
118	Molecular control of muscle development: specification, determination and differentiation in the amniote embryo. Seminars in Fetal and Neonatal Medicine, 1999, 4, 79-91.	2.8	0
119	Imprinting of IGF2 and H19: lack of reciprocity in sporadic Beckwith- Wiedemann syndrome. Human Molecular Genetics, 1997, 6, 1543-1548.	1.4	100
120	Genomic Structure and Chromosomal Mapping of the MousenovGene. Genomics, 1996, 38, 425-428.	1.3	23
121	The Effects of Fibroblast Growth Factors in Long-Term Primary Culture of Dystrophic (MDX) Mouse Muscle Myoblasts. Experimental Cell Research, 1994, 210, 86-93.	1.2	19
122	Developmental regulation of insulin like growth factor II expression in the horse.. Cell Biology International, 1993, 17, 603-608.	1.4	5
123	IGF2 is parentally imprinted during human embryogenesis and in the Beckwithâ€“Wiedemann syndrome. Nature Genetics, 1993, 4, 94-97.	9.4	292
124	GROWH FACTORS IN EARLY EMBRYOGENESIS. Reproduction in Domestic Animals, 1993, 28, 176-181.	0.6	3
125	Insulin-like growth factor (IGF)-I, -II and IGF binding protein-2 (IGFBP-2) in the plasma of children with Wilms' tumour. European Journal of Cancer, 1993, 29, 1973-1977.	1.3	53
126	Concentration-dependent modulation of basic fibroblast growth factor action on multiplication and locomotion of human teratocarcinoma cells. FEBS Letters, 1992, 298, 154-158.	1.3	15

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127	The role of insulin-like growth factors and IGF-binding proteins in the physiological and pathological processes of the kidney. Vigiliae Christianae, 1992, 62, 207-220.	0.1	28
128	Differentiation associated modulation of K-FGF expression in a human teratocarcinoma cell line and in primary germ cell tumours. FEBS Letters, 1991, 280, 8-10.	1.3	11
129	Growth Factor Synthesis By a Human Teratocarcinoma Cell Line: Implications for Autocrine Growth in the Human Embryo?. , 1990, , 49-59.		4
130	Regulation and specificity of glucose-stimulated insulin gene expression in human islets of Langerhans. FEBS Letters, 1987, 223, 131-137.	1.3	40
131	Glucose regulates preproinsulin messenger RNA levels in a clonal cell line of simian virus 40-transformed B cells. FEBS Letters, 1987, 213, 149-154.	1.3	53
132	Patterns, puzzles and paradigms: the riddle of the homeobox. Trends in Neurosciences, 1987, 10, 3-6.	4.2	25
133	A mouse homoeo box gene is expressed during embryogenesis and in adult kidney. Nature, 1985, 317, 745-748.	13.7	128
134	How is the mouse segmented?. Trends in Genetics, 1985, 1, 67-74.	2.9	56