Rolf W Stottmann

List of Publications by Citations

49 papers	1,501 citations	20 h-index	38 g-index
79 ext. papers	1,802 ext. citations	5.2 avg, IF	4.24 L-index

#	Paper	IF	Citations
49	THM1 negatively modulates mouse sonic hedgehog signal transduction and affects retrograde intraflagellar transport in cilia. *Nature Genetics*, **2008**, 40, 403-410	36.3	257
48	BMP receptor IA is required in mammalian neural crest cells for development of the cardiac outflow tract and ventricular myocardium. *Development (Cambridge)*, **2004**, 131, 2205-18	6.6	148
47	Chordin and noggin promote organizing centers of forebrain development in the mouse. *Development (Cambridge)*, **2002**, 129, 4975-4987	6.6	148
46	The BMP antagonists Chordin and Noggin have essential but redundant roles in mouse mandibular outgrowth. *Developmental Biology*, **2001**, 240, 457-73	3.1	102
45	Mutation mapping and identification by whole-genome sequencing. *Genome Research*, **2012**, 22, 1541-8	9.7	101
44	Ttc21b is required to restrict sonic hedgehog activity in the developing mouse forebrain. *Developmental Biology*, **2009**, 335, 166-78	3.1	63
43	The bone morphogenetic protein antagonist noggin regulates mammalian cardiac morphogenesis. *Circulation Research*, **2007**, 100, 220-8	15.7	53
42	The BMP antagonist Noggin promotes cranial and spinal neurulation by distinct mechanisms. *Developmental Biology*, **2006**, 295, 647-63	3.1	50
41	Cholesterol metabolism is required for intracellular hedgehog signal transduction in vivo. *PLoS Genetics*, **2011**, 7, e1002224	6	37
40	Copb2 is essential for embryogenesis and hypomorphic mutations cause human microcephaly. *Human Molecular Genetics*, **2017**, 26, 4836-4848	5.6	36
39	Conservation and regulatory associations of a wide affinity range of mouse transcription factor binding sites. *Genomics*, **2010**, 95, 185-95	4.3	36
38	A mutation in causes neonatal hydrocephalus with abnormal motile cilia development in mice. *Development (Cambridge)*, **2018**, 145,	6.6	35
37	Focusing forward genetics: a tripartite ENU screen for neurodevelopmental mutations in the mouse. *Genetics*, **2011**, 188, 615-24	4	32
36	Severe biallelic loss-of-function mutations in nicotinamide mononucleotide adenylyltransferase 2 (NMNAT2) in two fetuses with fetal akinesia deformation sequence. *Experimental Neurology*, **2019**, 320, 112961	5.7	29
35	Loss of SLC25A46 causes neurodegeneration by affecting mitochondrial dynamics and energy production in mice. *Human Molecular Genetics*, **2017**, 26, 3776-3791	5.6	26
34	Bone morphogenetic protein signaling is required in the dorsal neural folds before neurulation for the induction of spinal neural crest cells and dorsal neurons. *Developmental Dynamics*, **2011**, 240, 755-65	2.9	23
33	Loss of SMPD4 Causes a Developmental Disorder Characterized by Microcephaly and Congenital Arthrogryposis. *American Journal of Human Genetics*, **2019**, 105, 689-705	11	22

32	Differential requirements of tubulin genes in mammalian forebrain development. *PLoS Genetics*, **2019**, 15, e1008243	6	22
31	A mutation in FRIZZLED2 impairs Wnt signaling and causes autosomal dominant omodysplasia. *Human Molecular Genetics*, **2015**, 24, 3399-409	5.6	22
30	A mutation in Tubb2b, a human polymicrogyria gene, leads to lethality and abnormal cortical development in the mouse. *Human Molecular Genetics*, **2013**, 22, 4053-63	5.6	21
29	The ciliary baton: orchestrating neural crest cell development. *Current Topics in Developmental Biology*, **2015**, 111, 97-134	5.3	19
28	Using ENU mutagenesis for phenotype-driven analysis of the mouse. *Methods in Enzymology*, **2010**, 477, 329-48	1.7	17
27	A forward genetic screen in mice identifies mutants with abnormal cortical patterning. *Cerebral Cortex*, **2015**, 25, 167-79	5.1	16
26	A tissue-specific role for intraflagellar transport genes during craniofacial development. *PLoS ONE*, **2017**, 12, e0174206	3.7	15
25	Unique spatiotemporal requirements for intraflagellar transport genes during forebrain development. *PLoS ONE*, **2017**, 12, e0173258	3.7	14
24	Congenital Cataracts and Gut Dysmotility in a DYNC1H1 Dyneinopathy Patient. *Genes*, **2016**, 7,	4.2	14
23	Altered cholesterol biosynthesis causes precocious neurogenesis in the developing mouse forebrain. *Neurobiology of Disease*, **2016**, 91, 69-82	7.5	13
22	Grhl2 is required in nonneural tissues for neural progenitor survival and forebrain development. *Genesis*, **2015**, 53, 573-582	1.9	11
21	The Impact of CRISPR/Cas9-Based Genomic Engineering on Biomedical Research and Medicine. *Current Molecular Medicine*, **2016**, 16, 343-52	2.5	10
20	Ttc21b Is Required in Bergmann Glia for Proper Granule Cell Radial Migration. *Journal of Developmental Biology*, **2017**, 5,	3.5	9
19	Toward a systems-level understanding of the Hedgehog signaling pathway: defining the complex, robust, and fragile. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2013**, 5, 83-100	6.6	9
18	A Novel Mutation in the Gene Encoding Noggin is Not Causative in Human Neural Tube Defects. *Journal of Neurogenetics*, **2002**, 16, 65-71	1.6	9
17	A heterozygous mutation in tubulin, beta 2B (Tubb2b) causes cognitive deficits and hippocampal disorganization. *Genes, Brain and Behavior*, **2017**, 16, 250-259	3.6	8
16	Everolimus Stabilizes Podocyte Microtubules via Enhancing TUBB2B and DCDC2 Expression. *PLoS ONE*, **2015**, 10, e0137043	3.7	8
15	SNP2RFLP: a computational tool to facilitate genetic mapping using benchtop analysis of SNPs. *Mammalian Genome*, **2008**, 19, 687-90	3.2	8

14	A Novel Mutation in the Gene Encoding Noggin is Not Causative in Human Neural Tube Defects		8
13	ENU Mutagenesis in the Mouse. *Current Protocols in Human Genetics*, **2014**, 82, 15.4.1-10	3.2	7
12	Glycosylphosphatidylinositol biosynthesis and remodeling are required for neural tube closure, heart development, and cranial neural crest cell survival. *ELife*, **2019**, 8,	8.9	7
11	ENU mutagenesis in the mouse. *Current Protocols in Mouse Biology*, **2014**, 4, 25-35	1.1	7
10	CNS glycosylphosphatidylinositol deficiency results in delayed white matter development, ataxia and premature death in a novel mouse model. *Human Molecular Genetics*, **2020**, 29, 1205-1217	5.6	6
9	Gpr63 is a modifier of microcephaly in Ttc21b mouse mutants. *PLoS Genetics*, **2019**, 15, e1008467	6	5
8	Mandibulofacial dysostosis with microcephaly: An expansion of the phenotype via parental survey. *American Journal of Medical Genetics, Part A*, **2021**, 185, 413-423	2.5	4
7	A novel hypomorphic allele of causes primary ciliary dyskinesia phenotypes in mice. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	3
6	Using human sequencing to guide craniofacial research. *Genesis*, **2019**, 57, e23259	1.9	3
5	A novel mutation in the gene encoding noggin is not causative in human neural tube defects. *Journal of Neurogenetics*, **2002**, 16, 65-71	1.6	3
4	COPB2 loss of function causes a coatopathy with osteoporosis and developmental delay. *American Journal of Human Genetics*, **2021**, 108, 1710-1724	11	2
3	Novel genetic tools facilitate the study of cortical neuron migration. *Mammalian Genome*, **2016**, 27, 8-16	3.2	1
2	The mouse MC13 mutant is a novel ENU mutation in collagen type II, alpha 1. *PLoS ONE*, **2014**, 9, e116104	3.7	1
1	Nubp2 is required for cranial neural crest survival in the mouse. *Developmental Biology*, **2020**, 458, 189-199	3.1	1