Grard Gradwohl

List of Publications by Citations

65 papers	9,125 citations	37 h-index	70 g-index
70 ext. papers	9,758 ext. citations	9.7 avg, IF	5.27 L-index

#	Paper	IF	Citations
65	neurogenin3 is required for the development of the four endocrine cell lineages of the pancreas. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 1607-11	11.5	1166
64	Beta cells can be generated from endogenous progenitors in injured adult mouse pancreas. *Cell*, **2008**, 132, 197-207	56.2	817
63	Dominant-negative and targeted null mutations in the endothelial receptor tyrosine kinase, tek, reveal a critical role in vasculogenesis of the embryo. *Genes and Development*, **1994**, 8, 1897-909	12.6	748
62	Hes1 and Hes5 as notch effectors in mammalian neuronal differentiation. *EMBO Journal*, **1999**, 18, 2196-207	9.7	650
61	Vascularization of the mouse embryo: a study of flk-1, tek, tie, and vascular endothelial growth factor expression during development. *Developmental Dynamics*, **1995**, 203, 80-92	2.9	422
60	Opposing actions of Arx and Pax4 in endocrine pancreas development. *Genes and Development*, **2003**, 17, 2591-603	12.6	416
59	The bHLH protein NEUROGENIN 2 is a determination factor for epibranchial placode-derived sensory neurons. *Neuron*, **1998**, 20, 483-94	13.9	404
58	Neurogenin3 is differentially required for endocrine cell fate specification in the intestinal and gastric epithelium. *EMBO Journal*, **2002**, 21, 6338-47	13	346
57	Transcription factor hepatocyte nuclear factor 6 regulates pancreatic endocrine cell differentiation and controls expression of the proendocrine gene ngn3. *Molecular and Cellular Biology*, **2000**, 20, 4445-54	4.8	284
56	Temporal control of neurogenin3 activity in pancreas progenitors reveals competence windows for the generation of different endocrine cell types. *Developmental Cell*, **2007**, 12, 457-65	10.2	267
55	Recapitulation of embryonic neuroendocrine differentiation in adult human pancreatic duct cells expressing neurogenin 3. *Journal of Cell Biology*, **2002**, 159, 303-12	7.3	248
54	The second zinc-finger domain of poly(ADP-ribose) polymerase determines specificity for single-stranded breaks in DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 2990-4	11.5	242
53	Restricted expression of a novel murine atonal-related bHLH protein in undifferentiated neural precursors. *Developmental Biology*, **1996**, 180, 227-41	3.1	221
52	Lack of TCF2/vHNF1 in mice leads to pancreas agenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 1490-5	11.5	209
51	Dorsal pancreas agenesis in retinoic acid-deficient Raldh2 mutant mice. *Developmental Biology*, **2005**, 284, 399-411	3.1	202
50	Crossregulation between Neurogenin2 and pathways specifying neuronal identity in the spinal cord. *Neuron*, **2001**, 31, 203-17	13.9	195
49	Zinc-binding domain of poly(ADP-ribose)polymerase participates in the recognition of single strand breaks on DNA. *Journal of Molecular Biology*, **1989**, 210, 229-33	6.5	177

48	Genetic determinants of pancreatic epsilon-cell development. *Developmental Biology*, **2005**, 286, 217-24	3.1	154
47	IA1 is NGN3-dependent and essential for differentiation of the endocrine pancreas. *EMBO Journal*, **2006**, 25, 1344-52	13	153
46	Transient cytokine treatment induces acinar cell reprogramming and regenerates functional beta cell mass in diabetic mice. *Nature Biotechnology*, **2014**, 32, 76-83	44.5	147
45	Adult duct-lining cells can reprogram into -like cells able to counter repeated cycles of toxin-induced diabetes. *Developmental Cell*, **2013**, 26, 86-100	10.2	144
44	Transcription factor PROX1 induces colon cancer progression by promoting the transition from benign to highly dysplastic phenotype. *Cancer Cell*, **2008**, 13, 407-19	24.3	140
43	Poly(ADP-ribose)polymerase: a novel finger protein. *Nucleic Acids Research*, **1989**, 17, 4689-98	20.1	109
42	Rfx6 is an Ngn3-dependent winged helix transcription factor required for pancreatic islet cell development. *Development (Cambridge)*, **2010**, 137, 203-12	6.6	103
41	In vitro models of intestinal epithelial cell differentiation. *Cell Biology and Toxicology*, **2007**, 23, 241-56	7.4	93
40	Neurogenesis in hippocampal slice cultures. *Molecular and Cellular Neurosciences*, **2004**, 26, 241-50	4.8	86
39	Characterization of the proneural gene regulatory network during mouse telencephalon development. *BMC Biology*, **2008**, 6, 15	7.3	85
38	Rfx6 maintains the functional identity of adult pancreatic cells. *Cell Reports*, **2014**, 9, 2219-32	10.6	78
37	Differential requirements for neurogenin 3 in the development of POMC and NPY neurons in the hypothalamus. *Developmental Biology*, **2011**, 349, 406-16	3.1	71
36	The homeodomain-containing transcription factors Arx and Pax4 control enteroendocrine subtype specification in mice. *PLoS ONE*, **2012**, 7, e36449	3.7	63
35	Loss of enteroendocrine cells in mice alters lipid absorption and glucose homeostasis and impairs postnatal survival. *Journal of Clinical Investigation*, **2010**, 120, 1708-21	15.9	60
34	Neurogenin3 participates in gliogenesis in the developing vertebrate spinal cord. *Developmental Biology*, **2003**, 253, 84-98	3.1	56
33	Pancreatic islet progenitor cells in neurogenin 3-yellow fluorescent protein knock-add-on mice. *Molecular Endocrinology*, **2004**, 18, 2765-76		53
32	Zinc-binding proteins detected by protein blotting. *Analytical Biochemistry*, **1988**, 172, 39-42	3.1	53
31	Transcriptional program of the endocrine pancreas in mice and humans. *Diabetes*, **2003**, 52, 1604-10	0.9	51

30	Poly(ADP-ribose) polymerase forms loops with DNA. *Biochemical and Biophysical Research Communications*, **1987**, 148, 913-9	3.4	41
29	Role of the Onecut transcription factors in pancreas morphogenesis and in pancreatic and enteric endocrine differentiation. *Developmental Biology*, **2007**, 305, 685-94	3.1	38
28	Pancreatic islet and progenitor cell surface markers with cell sorting potential. *Diabetologia*, **2012**, 55, 154-65	10.3	35
27	Competence of failed endocrine progenitors to give rise to acinar but not ductal cells is restricted to early pancreas development. *Developmental Biology*, **2012**, 361, 277-85	3.1	30
26	Differentially Expressed MicroRNA-483 Confers Distinct Functions in Pancreatic β and δ Cells. *Journal of Biological Chemistry*, **2015**, 290, 19955-66	5.4	29
25	Pak3 promotes cell cycle exit and differentiation of β cells in the embryonic pancreas and is necessary to maintain glucose homeostasis in adult mice. *Diabetes*, **2014**, 63, 203-15	0.9	29
24	Cloning of rodent cDNA coding the poly(ADP-ribose) polymerase catalytic domain and analysis of mRNA levels during the cell cycle. *Biochemistry and Cell Biology*, **1989**, 67, 653-60	3.6	26
23	The transcriptional co-repressor Grg3/Tle3 promotes pancreatic endocrine progenitor delamination and β cell differentiation. *Development (Cambridge)*, **2012**, 139, 1447-56	6.6	22
22	Rfx6 promotes the differentiation of peptide-secreting enteroendocrine cells while repressing genetic programs controlling serotonin production. *Molecular Metabolism*, **2019**, 29, 24-39	8.8	19
21	Conditional deletion of neurogenin-3 using Nkx2.1iCre results in a mouse model for the central control of feeding, activity and obesity. *DMM Disease Models and Mechanisms*, **2013**, 6, 1133-45	4.1	19
20	Transcription factors in pancreatic development. Animal models. *Endocrine Development*, **2007**, 12, 24-32		19
19	Enteroendocrine cells and lipid absorption. *Current Opinion in Lipidology*, **2011**, 22, 171-5	4.4	16
18	Short-term overexpression of VEGF-A in mouse beta cells indirectly stimulates their proliferation and protects against diabetes. *Diabetologia*, **2014**, 57, 140-7	10.3	15
17	Expression of functional zinc finger domain of human poly(ADP-ribose)polymerase in E. coli. *Nucleic Acids Research*, **1989**, 17, 7112	20.1	12
16	STAT3 modulates β cell cycling in injured mouse pancreas and protects against DNA damage. *Cell Death and Disease*, **2016**, 7, e2272	9.8	11
15	A transcriptomic roadmap to α and β cell differentiation in the embryonic pancreas. *Development (Cambridge)*, **2019**, 146,	6.6	7
14	GeneSpeed Beta Cell: an online genomics data repository and analysis resource tailored for the islet cell biologist. *Experimental Diabetes Research*, **2008**, 2008, 312060		7
13	Expression of neuropeptide Y and agouti-related peptide in the hypothalamic arcuate nucleus of newborn neurogenin3 null mutant mice. *Cell and Tissue Research*, **2010**, 340, 137-45	4.2	6

12	Development of the endocrine pancreas. *Diabetes and Metabolism*, **2006**, 32, 532-3	5.4	6
11	Expression in E. coli of the catalytic domain of rat poly(ADP-ribose)polymerase. *FEBS Letters*, **1990**, 264, 81-3	3.8	5
10	is required to specify a subset of ventromedial hypothalamic neurons. *Development (Cambridge)*, **2020**, 147,	6.6	4
9	Adhesion receptor ADGRG2/GPR64 is in the GI-tract selectively expressed in mature intestinal tuft cells. *Molecular Metabolism*, **2021**, 51, 101231	8.8	4
8	Pairing-up SOX to kick-start beta cell genesis. *Diabetologia*, **2015**, 58, 859-61	10.3	2
7	Expression and functional studies of the GDNF family receptor alpha 3 in the pancreas. *Journal of Molecular Endocrinology*, **2016**, 56, 77-90	4.5	2
6	Analysis of dendritic distribution of voltage-dependent channels effects on EPSP and its reciprocal inhibition in motoneurons: computer model. *Neurocomputing*, **2004**, 58-60, 417-422	5.4	2
5	Reduced Neurog3 Gene Dosage Shifts Enteroendocrine Progenitor Towards Goblet Cell Lineage in the Mouse Intestine. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**, 11, 433-448	7.9	2
4	Structure and function of the human poly(ADP-ribose) polymerase **1992**, 3-13		2
3	Retraction Note: Transient cytokine treatment induces acinar cell reprogramming and regenerates functional beta cell mass in diabetic mice. *Nature Biotechnology*, **2020**, 38, 374	44.5	1
2	Extensive NEUROG3 occupancy in the human pancreatic endocrine gene regulatory network. *Molecular Metabolism*, **2021**, 53, 101313	8.8	1
1	Poly (ADP-Ribosyl) Ation Reactions and Modulation of Chromatin Structure **1989**, 365-377		