

Raymond J Macdonald

List of Publications by Year in descending order

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39
papers

27,851
citations

172443

29
h-index

345203

36
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40
all docs

40
docs citations

40
times ranked

10111
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation of biologically active ribonucleic acid from sources enriched in ribonuclease. <i>Biochemistry</i> , 1979, 18, 5294-5299.	2.5	23,186
2	The role of the transcriptional regulator Ptf1a in converting intestinal to pancreatic progenitors. <i>Nature Genetics</i> , 2002, 32, 128-134.	21.4	932
3	[20] Isolation of RNA using guanidinium salts. <i>Methods in Enzymology</i> , 1987, 152, 219-227.	1.0	578
4	Specific expression of an elastase-human growth hormone fusion gene in pancreatic acinar cells of transgenic mice. <i>Nature</i> , 1985, 313, 600-602.	27.8	253
5	Tissue-specific expression of the rat pancreatic elastase I gene in transgenic mice. <i>Cell</i> , 1984, 38, 639-646.	28.9	240
6	Signaling and transcriptional control of pancreatic organogenesis. <i>Current Opinion in Genetics and Development</i> , 2002, 12, 540-547.	3.3	230
7	Experimental control of pancreatic development and maintenance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12236-12241.	7.1	214
8	Notch inhibits Ptf1 function and acinar cell differentiation in developing mouse and zebrafish pancreas. <i>Development (Cambridge)</i> , 2004, 131, 4213-4224.	2.5	196
9	PTF1 Is an Organ-Specific and Notch-Independent Basic Helix-Loop-Helix Complex Containing the Mammalian Suppressor of Hairless (RBP-J) or Its Parologue, RBP-L. <i>Molecular and Cellular Biology</i> , 2006, 26, 117-130.	2.3	190
10	An Endocrine-Exocrine Switch in the Activity of the Pancreatic Homeodomain Protein PDX1 through Formation of a Trimeric Complex with PBX1b and MRG1 (MEIS2). <i>Molecular and Cellular Biology</i> , 1998, 18, 5109-5120.	2.3	161
11	Early pancreatic development requires the vertebrate Suppressor of Hairless (RBPJ) in the PTF1 bHLH complex. <i>Genes and Development</i> , 2007, 21, 2629-2643.	5.9	143
12	Pancreas-specific deletion of mouse Gata4 and Gata6 causes pancreatic agenesis. <i>Journal of Clinical Investigation</i> , 2012, 122, 3516-3528.	8.2	138
13	The acinar differentiation determinant PTF1A inhibits initiation of pancreatic ductal adenocarcinoma. <i>ELife</i> , 2015, 4, .	6.0	128
14	A nonclassical bHLH-Rbpj transcription factor complex is required for specification of GABAergic neurons independent of Notch signaling. <i>Genes and Development</i> , 2008, 22, 166-178.	5.9	116
15	The homeodomain protein PDX1 is required at mid-pancreatic development for the formation of the exocrine pancreas. <i>Developmental Biology</i> , 2005, 286, 225-237.	2.0	101
16	The Role of PTF1-P48 in Pancreatic Acinar Gene Expression. <i>Journal of Biological Chemistry</i> , 2001, 276, 44018-44026.	3.4	95
17	Transcriptional Autoregulation Controls Pancreatic Ptf1a Expression during Development and Adulthood. <i>Molecular and Cellular Biology</i> , 2008, 28, 5458-5468.	2.3	93
18	The nuclear hormone receptor family member NR5A2 controls aspects of multipotent progenitor cell formation and acinar differentiation during pancreatic organogenesis. <i>Development (Cambridge)</i> , 2014, 141, 3123-3133.	2.5	92

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19	LRH-1 and PTF1-L coregulate an exocrine pancreas-specific transcriptional network for digestive function. <i>Genes and Development</i> , 2011, 25, 1674-1679.	5.9	91
20	Replacement of Rbpj With Rbpjl in the PTF1 Complex Controls the Final Maturation of Pancreatic Acinar Cells. <i>Gastroenterology</i> , 2010, 139, 270-280.	1.3	85
21	Transcriptional Maintenance of Pancreatic Acinar Identity, Differentiation, and Homeostasis by PTF1A. <i>Molecular and Cellular Biology</i> , 2016, 36, 3033-3047.	2.3	80
22	DNA Binding and Transcriptional Activation by a PDX1-PBX1b-MEIS2b Trimer and Cooperation with a Pancreas-specific Basic Helix-Loop-Helix Complex. <i>Journal of Biological Chemistry</i> , 2001, 276, 17985-17993.	3.4	63
23	Induced Mist1 Expression Promotes Remodeling of Mouse Pancreatic Acinar Cells. <i>Gastroenterology</i> , 2012, 143, 469-480.	1.3	60
24	Evolutionary Silencing of the Human Elastase I Gene (ELA1). <i>Human Molecular Genetics</i> , 1997, 6, 897-903.	2.9	44
25	Transcriptional Control of Acinar Development and Homeostasis. <i>Progress in Molecular Biology and Translational Science</i> , 2010, 97, 1-40.	1.7	40
26	Notch-Independent Functions of CSL. <i>Current Topics in Developmental Biology</i> , 2011, 97, 55-74.	2.2	39
27	MIST1 and PTF1 Collaborate in Feed-Forward Regulatory Loops That Maintain the Pancreatic Acinar Phenotype in Adult Mice. <i>Molecular and Cellular Biology</i> , 2016, 36, 2945-2955.	2.3	38
28	A candidate gene for human neurodegenerative disorders: a rat PKC δ mutation causes a Parkinsonian syndrome. <i>Nature Neuroscience</i> , 2001, 4, 1061-1062.	14.8	36
29	MIST1 Links Secretion and Stress as both Target and Regulator of the Unfolded Protein Response. <i>Molecular and Cellular Biology</i> , 2016, 36, 2931-2944.	2.3	33
30	Assessment of RNA Quality by Semi-Quantitative RT-PCR of Multiple Regions of a Long Ubiquitous mRNA. <i>BioTechniques</i> , 2000, 28, 524-531.	1.8	32
31	Program Specificity for Ptf1a in Pancreas versus Neural Tube Development Correlates with Distinct Collaborating Cofactors and Chromatin Accessibility. <i>Molecular and Cellular Biology</i> , 2013, 33, 3166-3179.	2.3	31
32	Prevention and Reversion of Pancreatic Tumorigenesis through a Differentiation-Based Mechanism. <i>Developmental Cell</i> , 2019, 50, 744-754.e4.	7.0	23
33	Isolated Pancreatic Aplasia Due to a Hypomorphic PTF1A Mutation. <i>Diabetes</i> , 2016, 65, 2810-2815.	0.6	22
34	Dominant and context-specific control of endodermal organ allocation by Ptf1a. <i>Development (Cambridge)</i> , 2014, 141, 4385-4394.	2.5	21
35	The Expression of the Kallikrein Gene Family in the Rat Pituitary: Oestrogen Effects and the Expression of an Additional Family Member in the Neurointermediate Lobe. <i>Journal of Neuroendocrinology</i> , 1989, 1, 198-203.	2.6	13
36	Developmental Molecular Biology of the Pancreas. , 2010, , 71-117.		7

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37	Developmental Molecular Biology of the Pancreas. , 2018, , 89-145.		3
38	Concerted cell and in vivo screen for pancreatic ductal adenocarcinoma (PDA) chemotherapeutics. Scientific Reports, 2020, 10, 20662.	3.3	3
39	Developmental Molecular Biology of the Pancreas. , 2016, , 1-57.		1