Anne Grapin-Botton

List of Publications by Year
in descending order

50 papers	3,315 citations	201674 27 h-index	189892 50 g-index
54 all docs	54 docs citations	54 times ranked	4222 citing authors

#	Article	IF	Citations
1	Temporal Control of Neurogenin3 Activity in Pancreas Progenitors Reveals Competence Windows for the Generation of Different Endocrine Cell Types. Developmental Cell, 2007, 12, 457-465.	7.0	300
2	Endoderm development: from patterning to organogenesis. Trends in Genetics, 2000, 16, 124-130.	6.7	237
3	Artificial three-dimensional niches deconstruct pancreas development<i>in vitro</i>. Development (Cambridge), 2013, 140, 4452-4462.	2.5	233
4	Signals from lateral plate mesoderm instruct endoderm toward a pancreatic fate. Developmental Biology, 2003, 259, 109-122.	2.0	222
5	A Notch-dependent molecular circuitry initiates pancreatic endocrine and ductal cell differentiation. Development (Cambridge), 2012, 139, 2488-2499.	2.5	200
6	FGF signaling is necessary for establishing gut tube domains alongthe anteriorâ€“posterior axis in vivo. Mechanisms of Development, 2006, 123, 42-55.	1.7	162
7	Pancreas-Specific Deletion of Î²-Catenin Reveals Wnt-Dependent and Wnt-Independent Functions during Development. Current Biology, 2005, 15, 1677-1683.	3.9	156
8	Neurogenin3 initiates stepwise delamination of differentiating endocrine cells during pancreas development. Developmental Dynamics, 2011, 240, 589-604.	1.8	131
9	The molecular and morphogenetic basis of pancreas organogenesis. Seminars in Cell and Developmental Biology, 2017, 66, 51-68.	5.0	119
10	The EndoC-Î²H1 cell line is a valid model of human beta cells and applicable for screenings to identify novel drug target candidates. Molecular Metabolism, 2018, 8, 144-157.	6.5	110
11	The expression pattern of the mafB/kr gene in birds and mice reveals that the kreisler phenotype does not represent a null mutant. Mechanisms of Development, 1997, 65, 111-122.	1.7	104
12	Retinoic Acid Signaling Organizes Endodermal Organ Specification along the Entire Antero-Posterior Axis. PLoS ONE, 2009, 4, e5845.	2.5	99
13	Single-Cell Gene Expression Analysis of a Human ESC Model of Pancreatic Endocrine Development Reveals Different Paths to Î²-Cell Differentiation. Stem Cell Reports, 2017, 9, 1246-1261.	4.8	98
14	The histone demethylase Jmjd3 sequentially associates with the transcription factors Tbx3 and Eomes to drive endoderm differentiation. EMBO Journal, 2013, 32, 1393-1408.	7.8	94
15	Planar Cell Polarity Controls Pancreatic Beta Cell Differentiation and Glucose Homeostasis. Cell Reports, 2012, 2, 1593-1606.	6.4	82
16	Understanding human fetal pancreas development using subpopulation sorting, RNA sequencing and single-cell profiling. Development (Cambridge), 2018, 145, .	2.5	78
17	Ductal cells of the pancreas. International Journal of Biochemistry and Cell Biology, 2005, 37, 504-510.	2.8	77
18	Evolution of the mechanisms and molecular control of endoderm formation. Mechanisms of Development, 2007, 124, 253-278.	1.7	75

#	Article	IF	Citations
19	Two mutations in human BICC1 resulting in Wnt pathway hyperactivity associated with cystic renal dysplasia. Human Mutation, 2012, 33, 86-90.	2.5	63
20	The physics of organoids: a biophysical approach to understanding organogenesis. Development (Cambridge), 2017, 144, 946-951.	2.5	55
21	Cell Cycleâ€“Dependent Differentiation Dynamics Balances Growth and Endocrine Differentiation in the Pancreas. PLoS Biology, 2015, 13, e1002111.	5.6	53
22	RNA Profiling and Chromatin Immunoprecipitation-Sequencing Reveal that PTF1a Stabilizes Pancreas Progenitor Identity via the Control of MNX1/HLXB9 and a Network of Other Transcription Factors. Molecular and Cellular Biology, 2012, 32, 1189-1199.	2.3	51
23	A 3D system to model human pancreas development and its reference single-cell transcriptome atlas identify signaling pathways required for progenitor expansion. Nature Communications, 2021, 12, 3144.	12.8	51
24	Notch-mediated post-translational control of Ngn3 protein stability regulates pancreatic patterning and cell fate commitment. Developmental Biology, 2013, 376, 1-12.	2.0	47
25	Inhibiting RHOA Signaling in Mice Increases Glucose Tolerance and Numbers of Enteroendocrine and Other Secretory Cells in the Intestine. Gastroenterology, 2018, 155, 1164-1176.e2.	1.3	41
26	Recapitulating and Deciphering Human Pancreas Development From Human Pluripotent Stem Cells in a Dish. Current Topics in Developmental Biology, 2018, 129, 143-190.	2.2	41
27	Stochastic priming and spatial cues orchestrate heterogeneous clonal contribution to mouse pancreas organogenesis. Nature Communications, 2017, 8, 605.	12.8	38
28	Deconstructing the principles of ductal network formation in the pancreas. PLoS Biology, 2018, 16, e2002842.	5.6	29
29	REST represses a subset of the pancreatic endocrine differentiation program. Developmental Biology, 2015, 405, 316-327.	2.0	23
30	The Importance of REST for Development and Function of Beta Cells. Frontiers in Cell and Developmental Biology, 2017, 5, 12.	3.7	22
31	Dominant and context-specific control of endodermal organ allocation by Ptf1a. Development (Cambridge), 2014, 141, 4385-4394.	2.5	21
32	In Vitro Pancreas Organogenesis from Dispersed Mouse Embryonic Progenitors. Journal of Visualized Experiments, 2014, , .	0.3	20
33	Bicaudal C1 promotes pancreatic NEUROG3+ endocrine progenitor differentiation and ductal morphogenesis. Development (Cambridge), 2015, 142, 858-870.	2.5	20
34	Quantification of Visco-Elastic Properties of a Matrigel for Organoid Development as a Function of Polymer Concentration. Frontiers in Physics, 2020, 8, .	2.1	18
35	Apical Restriction of the Planar Cell Polarity Component VANGL in Pancreatic Ducts Is Required to Maintain Epithelial Integrity. Cell Reports, 2020, 31, 107677.	6.4	16
36	Concise Reviews: In Vitro-Produced Pancreas Organogenesis Models in Three Dimensions: Self-Organization From Few Stem Cells or Progenitors. Stem Cells, 2015, 33, 8-14.	3.2	14

#	Article	IF	Citations
37	Short-range growth inhibitory signals from the epithelium can drive non-stereotypic branching in the pancreas. Physical Biology, 2016, 13, 016007.	1.8	14
38	Bromodomain and Extra Terminal Proteins Inhibitors Promote Pancreatic Endocrine Cell Fate. Diabetes, 2019, 68, db180224.	0.6	13
39	Self-organization of organoids from endoderm-derived cells. Journal of Molecular Medicine, 2021, 99, 449-462.	3.9	11
40	Long-term feeder-free culture of human pancreatic progenitors on fibronectin or matrix-free polymer potentiates Î² cell differentiation. Stem Cell Reports, 2022, 17, 1215-1228.	4.8	11
41	Organoid Imaging: Seeing Development and Function. Annual Review of Cell and Developmental Biology, 2022, 38, 447-466.	9.4	11
42	Epithelial morphogenesis in organoids. Current Opinion in Genetics and Development, 2022, 72, 30-37.	3.3	10
43	Improved Differentiation of hESC-Derived Pancreatic Progenitors by Using Human Fetal Pancreatic Mesenchymal Cells in a Microâ€scalable Three-Dimensional Co-culture System. Stem Cell Reviews and Reports, 2022, 18, 360-377.	3.8	8
44	Pancreas morphogenesis: Branching in and then out. Current Topics in Developmental Biology, 2021, 143, 75-110.	2.2	6
45	Regeneration of the pancreas: proliferation and cellular conversion of surviving cells. Current Opinion in Genetics and Development, 2020, 64, 84-93.	3.3	4
46	Pairing-up SOX to kick-start beta cell genesis. Diabetologia, 2015, 58, 859-861.	6.3	3
47	Parsing the Pancreas. New England Journal of Medicine, 2017, 376, 886-888.	27.0	3
48	Mapping and exploring the organoid state space using synthetic biology. Seminars in Cell and Developmental Biology, 2022, , .	5.0	3
49	Nutrients men-TOR Î²-Cells to Adulthood. Developmental Cell, 2020, 54, 140-141.	7.0	2
50	Stem cell-derived Î² cells go in monkeys. Cell Stem Cell, 2022, 29, 500-502.	11.1	2