Maike Sander

List of Publications by Year
in descending order

99 papers	10,899 citations	30068 54 h-index	37202 96 g-index
114 all docs	114 docs citations	114 times ranked	13511 citing authors

#	Article	IF	Citations
1	Identification of Sox9-Dependent Acinar-to-Ductal Reprogramming as the Principal Mechanism for Initiation of Pancreatic Ductal Adenocarcinoma. Cancer Cell, 2012, 22, 737-750.	16.8	567
2	SOX9 is required for maintenance of the pancreatic progenitor cell pool. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1865-1870.	7.1	495
3	Genetic analysis reveals that PAX6 is required for normal transcription of pancreatic hormone genes and islet development.. Genes and Development, 1997, 11, 1662-1673.	5.9	494
4	Inactivation of specific Î² cell transcription factors in type 2 diabetes. Journal of Clinical Investigation, 2013, 123, 3305-3316.	8.2	414
5	Human Î² Cell Transcriptome Analysis Uncovers lncRNAs That Are Tissue-Specific, Dynamically Regulated, and Abnormally Expressed in Type 2 Diabetes. Cell Metabolism, 2012, 16, 435-448.	16.2	410
6	Sox9+ ductal cells are multipotent progenitors throughout development but do not produce new endocrine cells in the normal or injured adult pancreas. Development (Cambridge), 2011, 138, 653-665.	2.5	403
7	Hybrid Periportal Hepatocytes Regenerate the Injured Liver without Giving Rise to Cancer. Cell, 2015, 162, 766-779.	28.9	394
8	Generation of Oligodendrocyte Precursor Cells from Mouse Dorsal Spinal Cord Independent of Nkx6 Regulation and Shh Signaling. Neuron, 2005, 45, 41-53.	8.1	305
9	Nkx6.1 Is Essential for Maintaining the Functional State of Pancreatic Beta Cells. Cell Reports, 2013, 4, 1262-1275.	6.4	277
10	Pancreas Organogenesis: From Lineage Determination to Morphogenesis. Annual Review of Cell and Developmental Biology, 2013, 29, 81-105.	9.4	260
11	The MafA transcription factor appears to be responsible for tissue-specific expression of insulin. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2930-2933.	7.1	258
12	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation. Nature Genetics, 2022, 54, 560-572.	21.4	250
13	Sox9 plays multiple roles in the lung epithelium during branching morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4456-64.	7.1	245
14	N-methyladenine DNA Modification in Glioblastoma. Cell, 2018, 175, 1228-1243.e20.	28.9	236
15	Embryonic Ductal Plate Cells Give Rise to Cholangiocytes, Periportal Hepatocytes, and Adult Liver Progenitor Cells. Gastroenterology, 2011, 141, 1432-1438.e4.	1.3	235
16	Nkx6 Transcription Factors and Ptf1a Function as Antagonistic Lineage Determinants in Multipotent Pancreatic Progenitors. Developmental Cell, 2010, 18, 1022-1029.	7.0	234
17	Different Levels of Repressor Activity Assign Redundant and Specific Roles to Nkx6 Genes in Motor Neuron and Interneuron Specification. Neuron, 2001, 31, 743-755.	8.1	231
18	Epigenetic Priming of Enhancers Predicts Developmental Competence of hESC-Derived Endodermal Lineage Intermediates. Cell Stem Cell, 2015, 16, 386-399.	11.1	222

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19	Dynamic Chromatin Remodeling Mediated by Polycomb Proteins Orchestrates Pancreatic Differentiation of Human Embryonic Stem Cells. Cell Stem Cell, 2013, 12, 224-237.	11.1	216
20	Nkx6.1 Controls a Gene Regulatory Network Required for Establishing and Maintaining Pancreatic Beta Cell Identity. PLoS Genetics, 2013, 9, e1003274.	3.5	212
21	Prospective isolation of a bipotential clonogenic liver progenitor cell in adult mice. Genes and Development, 2011, 25, 1193-1203.	5.9	209
22	A Notch-dependent molecular circuitry initiates pancreatic endocrine and ductal cell differentiation. Development (Cambridge), 2012, 139, 2488-2499.	2.5	200
23	Interpreting type 1 diabetes risk with genetics and single-cell epigenomics. Nature, 2021, 594, 398-402.	27.8	170
24	NKX6 transcription factor activity is required for Î±- andÎ²-cell development in the pancreas. Development (Cambridge), 2005, 132, 3139-3149.	2.5	168
25	Stem cells versus plasticity in liver and pancreas regeneration. Nature Cell Biology, 2016, 18, 238-245.	10.3	152
26	Sustained <i>Neurog3</i> expression in hormone-expressing islet cells is required for endocrine maturation and function. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9715-9720.	7.1	143
27	Lineage fate of ductular reactions in liver injury and carcinogenesis. Journal of Clinical Investigation, 2015, 125, 2445-2457.	8.2	131
28	Pseudotemporal Ordering of Single Cells Reveals Metabolic Control of Postnatal Î² Cell Proliferation. Cell Metabolism, 2017, 25, 1160-1175.e11.	16.2	128
29	Expression ofSoxtranscription factors in the developing mouse pancreas. Developmental Dynamics, 2003, 227, 402-408.	1.8	115
30	Image-based detection and targeting of therapy resistance in pancreatic adenocarcinoma. Nature, 2016, 534, 407-411.	27.8	114
31	Complementary roles for Nkx6 and Nkx2 class proteins in the establishment of motoneuron identity in the hindbrain. Development (Cambridge), 2003, 130, 4149-4159.	2.5	110
32	The transcription factors Nkx6.1 and Nkx6.2 possess equivalent activities in promoting beta-cell fate specification in Pdx1+ pancreatic progenitor cells. Development (Cambridge), 2007, 134, 2491-2500.	2.5	108
33	A dosage-dependent requirement for Sox9 in pancreatic endocrine cell formation. Developmental Biology, 2008, 323, 19-30.	2.0	108
34	Hnf1b controls pancreas morphogenesis and the generation of Ngn3+ endocrine progenitors. Development (Cambridge), 2015, 142, 871-882.	2.5	103
35	In vivoâ€“mimicking microfluidic perfusion culture of pancreatic islet spheroids. Science Advances, 2019, 5, eaax4520.	10.3	101
36	Single-cell chromatin accessibility identifies pancreatic islet cell typeâ€“ and state-specific regulatory programs of diabetes risk. Nature Genetics, 2021, 53, 455-466.	21.4	100

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37	Colony-forming cells in the adult mouse pancreas are expandable in Matrigel and form endocrine/acinar colonies in laminin hydrogel. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3907-3912.	7.1	99
38	A Sox9/Fgf feed-forward loop maintains pancreatic organ identity. Development (Cambridge), 2012, 139, 3363-3372.	2.5	93
39	Urocortin 3 Marks Mature Human Primary and Embryonic Stem Cell-Derived Pancreatic Alpha and Beta Cells. PLoS ONE, 2012, 7, e52181.	2.5	92
40	Systematic analysis of binding of transcription factors to noncoding variants. Nature, 2021, 591, 147-151.	27.8	89
41	Cell of origin affects tumour development and phenotype in pancreatic ductal adenocarcinoma. Gut, 2019, 68, 487-498.	12.1	85
42	A Gene Regulatory Network Cooperatively Controlled by Pdx1 and Sox9 Governs Lineage Allocation of Foregut Progenitor Cells. Cell Reports, 2015, 13, 326-336.	6.4	82
43	Pancreatic islet chromatin accessibility and conformation reveals distal enhancer networks of type 2 diabetes risk. Nature Communications, 2019, 10, 2078.	12.8	82
44	Progenitor cell domains in the developing and adult pancreas. Cell Cycle, 2011, 10, 1921-1927.	2.6	80
45	Endodermal expression of Nkx6 genes depends differentially on Pdx1. Developmental Biology, 2005, 288, 487-501.	2.0	78
46	Sox9 and Sox8 protect the adult testis from male-to-female genetic reprogramming and complete degeneration. ELife, 2016, 5, .	6.0	74
47	ECM Signaling Regulates Collective Cellular Dynamics to Control Pancreas Branching Morphogenesis. Cell Reports, 2016, 14, 169-179.	6.4	71
48	Nkx6-1 controls the identity and fate of red nucleus and oculomotor neurons in the mouse midbrain. Development (Cambridge), 2009, 136, 2545-2555.	2.5	67
49	Historical Perspective: Beginnings of the Î²-Cell. Diabetes, 2011, 60, 364-376.	0.6	66
50	Sall1 Maintains Nephron Progenitors and Nascent Nephrons by Acting as Both an Activator and a Repressor. Journal of the American Society of Nephrology: JASN, 2014, 25, 2584-2595.	6.1	62
51	Nkx6.1 controls migration and axon pathfinding of cranial branchio-motoneurons. Development (Cambridge), 2003, 130, 5815-5826.	2.5	61
52	Pancreatic Islet Progenitor Cells in Neurogenin 3-Yellow Fluorescent Protein Knock-Add-On Mice. Molecular Endocrinology, 2004, 18, 2765-2776.	3.7	61
53	Loss of Pten and Activation of Kras Synergistically Induce Formation of Intraductal Papillary Mucinous Neoplasia From Pancreatic Ductal Cells in Mice. Gastroenterology, 2018, 154, 1509-1523.e5.	1.3	61
54	Evaluation of Different Decellularization Protocols on the Generation of Pancreas-Derived Hydrogels. Tissue Engineering - Part C: Methods, 2018, 24, 697-708.	2.1	60

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55	LIM domainâ€“binding 1 maintains the terminally differentiated state of pancreatic Î² cells. Journal of Clinical Investigation, 2016, 127, 215-229.	8.2	60
56	Pancreatic islet-autonomous insulin and smoothened-mediated signalling modulate identity changes of glucagon+ Î±-cells. Nature Cell Biology, 2018, 20, 1267-1277.	10.3	54
57	Region-specific and stage-dependent regulation of Olig gene expression and oligodendrogenesis by Nkx6.1 homeodomain transcription factor. Development (Cambridge), 2003, 130, 6221-6231.	2.5	52
58	<i>Prdm12</i> specifies V1 interneurons through cross-repressive interactions with <i>Dbx1</i> and <i>Nkx6</i> genes in <i>Xenopus</i>. Development (Cambridge), 2015, 142, 3416-3428.	2.5	45
59	Integrated InÂVivo Quantitative Proteomics and Nutrient Tracing Reveals Age-Related Metabolic Rewiring of Pancreatic Î² Cell Function. Cell Reports, 2018, 25, 2904-2918.e8.	6.4	44
60	Advances in Î² cell replacement and regeneration strategies for treating diabetes. Journal of Clinical Investigation, 2016, 126, 3651-3660.	8.2	44
61	Interrogating islets in health and disease with single-cell technologies. Molecular Metabolism, 2017, 6, 991-1001.	6.5	42
62	Nomenclature for cellular plasticity: are the terms as plastic as the cells themselves?. EMBO Journal, 2019, 38, e103148.	7.8	40
63	The role of Sox9 in mouse mammary gland development and maintenance of mammary stem and luminal progenitor cells. BMC Developmental Biology, 2014, 14, 47.	2.1	35
64	Postnatal Î²-Cell Proliferation and Mass Expansion Is Dependent on the Transcription Factor Nkx6.1. Diabetes, 2015, 64, 897-903.	0.6	33
65	Sox9-Haploinsufficiency Causes Glucose Intolerance in Mice. PLoS ONE, 2011, 6, e23131.	2.5	33
66	Sequence logic at enhancers governs a dual mechanism of endodermal organ fate induction by FOXA pioneer factors. Nature Communications, 2021, 12, 6636.	12.8	31
67	LSD1-mediated enhancer silencing attenuates retinoic acid signalling during pancreatic endocrine cell development. Nature Communications, 2020, 11, 2082.	12.8	28
68	Transgenic Overexpression of the Transcription Factor Nkx6.1 in Î²-Cells of Mice Does Not Increase Î²-Cell Proliferation, Î²-Cell Mass, or Improve Glucose Clearance. Molecular Endocrinology, 2011, 25, 1904-1914.	3.7	25
69	A human ESC-based screen identifies a role for the translated lncRNA LINC00261 in pancreatic endocrine differentiation. ELife, 2020, 9, .	6.0	25
70	Analysis of mPygo2 mutant mice suggests a requirement for mesenchymal Wnt signaling in pancreatic growth and differentiation. Developmental Biology, 2008, 318, 224-235.	2.0	24
71	Mutations and variants of ONECUT1 in diabetes. Nature Medicine, 2021, 27, 1928-1940.	30.7	24
72	Transcriptional mechanisms of pancreatic Î²-cell maturation and functional adaptation. Trends in Endocrinology and Metabolism, 2021, 32, 474-487.	7.1	23

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73	Human stem cell models: lessons for pancreatic development and disease. Genes and Development, 2019, 33, 1475-1490.	5.9	22
74	A Network of microRNAs Acts to Promote Cell Cycle Exit and Differentiation of Human Pancreatic Endocrine Cells. IScience, 2019, 21, 681-694.	4.1	21
75	What is a Î² cell? â€" Chapter I in the Human Islet Research Network (HIRN) review series. Molecular Metabolism, 2021, 53, 101323.	6.5	20
76	Control of Astrocyte Progenitor Specification, Migration and Maturation by Nkx6.1 Homeodomain Transcription Factor. PLoS ONE, 2014, 9, e109171.	2.5	19
77	A systems view of epigenetic networks regulating pancreas development and Î²â€cell function. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2015, 7, 1-11.	6.6	19
78	Beta-cell dysfunction induced by non-cytotoxic concentrations of Interleukin-1Î² is associated with changes in expression of beta-cell maturity genes and associated histone modifications. Molecular and Cellular Endocrinology, 2019, 496, 110524.	3.2	18
79	Expression of Nkx6 Genes in the Hindbrain and Gut of the Developing Mouse. Journal of Histochemistry and Cytochemistry, 2005, 53, 787-790.	2.5	17
80	Generating cells of the gastrointestinal system: current approaches and applications for the differentiation of human pluripotent stem cells. Journal of Molecular Medicine, 2012, 90, 763-771.	3.9	17
81	Transcriptional changes and the role of ONECUT1 in hPSC pancreatic differentiation. Communications Biology, 2021, 4, 1298.	4.4	16
82	Pancreatic progenitor epigenome maps prioritize type 2 diabetes risk genes with roles in development. ELife, 2021, 10, .	6.0	15
83	Rodent models for studying steroids and hypertension: From fetal development to cells in culture. Steroids, 1995, 60, 59-64.	1.8	14
84	Differential Cell Susceptibilities to Kras in the Setting of Obstructive Chronic Pancreatitis. Cellular and Molecular Gastroenterology and Hepatology, 2019, 8, 579-594.	4.5	14
85	Transformation of SOX9+ cells by Pten deletion synergizes with steatotic liver injury to drive development of hepatocellular and cholangiocarcinoma. Scientific Reports, 2021, 11, 11823.	3.3	12
86	New Insights Into the Cell Lineage of Pancreatic Ductal Adenocarcinoma: Evidence for Tumor Stem Cells in Premalignant Lesions?. Gastroenterology, 2014, 146, 24-26.	1.3	11
87	Pancreatic Exocrine Tissue Architecture and Integrity are Maintained by E-cadherin During Postnatal Development. Scientific Reports, 2018, 8, 13451.	3.3	11
88	PRDM3 attenuates pancreatitis and pancreatic tumorigenesis by regulating inflammatory response. Cell Death and Disease, 2020, 11, 187.	6.3	11
89	Pancreas Development Ex Vivo: Culturing Embryonic Pancreas Explants on Permeable Culture Inserts, with Fibronectin-Coated Glass Microwells, or Embedded in Three-Dimensional Matrigelâ„¢. Methods in Molecular Biology, 2014, 1210, 229-237.	0.9	11
90	ETV5 regulates ductal morphogenesis with Sox9 and is critical for regeneration from pancreatitis. Developmental Dynamics, 2018, 247, 854-866.	1.8	6

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91	Career Advancement for Women in Diabetes-Related Research: Developing and Retaining Female Talent. Diabetes Care, 2021, 44, 1744-1747.	8.6	5
92	High T Gives Î² Cells a Boost. Cell Metabolism, 2016, 23, 761-763.	16.2	4
93	Inferring time series chromatin states for promoter-enhancer pairs based on Hi-C data. BMC Genomics, 2021, 22, 84.	2.8	3
94	A multi-omics roadmap of Î²-cell failure in type 2 diabetes mellitus. Nature Reviews Endocrinology, 2021, 17, 641-642.	9.6	3
95	Sizing up beta cells made from stem cells. Nature Biotechnology, 2022, , .	17.5	3
96	Stem Cell Epigenetics: Looking Forward. Cell Stem Cell, 2014, 14, 706-709.	11.1	1
97	Molecular cues regulating segregation of pancreatic, hepatic and intestinal lineages. FASEB Journal, 2011, 25, 303.3.	0.5	1
98	Pancreatic Differentiation from Human Pluripotent Stem Cells. , 2016, , 257-275.		0
99	Deletion of ABCB10 in beta-cells protects from high-fat diet induced insulin resistance. Molecular Metabolism, 2022, 55, 101403.	6.5	0