Maike Sander

List of Publications by Citations

102 papers	8,091 citations	46 h-index	89 g-index
114 ext. papers	9,679 ext. citations	13 avg, IF	5.8 L-index

#	Paper	IF	Citations
102	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, 1865-70	11.5	437
101	Genetic analysis reveals that PAX6 is required for normal transcription of pancreatic hormone genes and islet development. *Genes and Development*, **1997**, 11, 1662-73	12.6	423
100	Identification of Sox9-dependent acinar-to-ductal reprogramming as the principal mechanism for initiation of pancreatic ductal adenocarcinoma. *Cancer Cell*, **2012**, 22, 737-50	24.3	417
99	Human □cell transcriptome analysis uncovers lncRNAs that are tissue-specific, dynamically regulated, and abnormally expressed in type 2 diabetes. *Cell Metabolism*, **2012**, 16, 435-48	24.6	345
98	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, 653-65	6.6	345
97	Inactivation of specific □cell transcription factors in type 2 diabetes. *Journal of Clinical Investigation* , **2013**, 123, 3305-16	15.9	316
96	Hybrid Periportal Hepatocytes Regenerate the Injured Liver without Giving Rise to Cancer. *Cell*, **2015**, 162, 766-79	56.2	311
95	Generation of oligodendrocyte precursor cells from mouse dorsal spinal cord independent of Nkx6 regulation and Shh signaling. *Neuron*, **2005**, 45, 41-53	13.9	259
94	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, 2930-3	11.5	223
93	Different levels of repressor activity assign redundant and specific roles to Nkx6 genes in motor neuron and interneuron specification. *Neuron*, **2001**, 31, 743-55	13.9	220
92	Embryonic ductal plate cells give rise to cholangiocytes, periportal hepatocytes, and adult liver progenitor cells. *Gastroenterology*, **2011**, 141, 1432-8, 1438.e1-4	13.3	217
91	Nkx6.1 is essential for maintaining the functional state of pancreatic beta cells. *Cell Reports*, **2013**, 4, 1262-75	10.6	209
90	Pancreas organogenesis: from lineage determination to morphogenesis. *Annual Review of Cell and Developmental Biology*, **2013**, 29, 81-105	12.6	198
89	Nkx6 transcription factors and Ptf1a function as antagonistic lineage determinants in multipotent pancreatic progenitors. *Developmental Cell*, **2010**, 18, 1022-9	10.2	194
88	Prospective isolation of a bipotential clonogenic liver progenitor cell in adult mice. *Genes and Development*, **2011**, 25, 1193-203	12.6	191
87	Dynamic chromatin remodeling mediated by polycomb proteins orchestrates pancreatic differentiation of human embryonic stem cells. *Cell Stem Cell*, **2013**, 12, 224-37	18	179
86	Nkx6.1 controls a gene regulatory network required for establishing and maintaining pancreatic Beta cell identity. *PLoS Genetics*, **2013**, 9, e1003274	6	163

85	Epigenetic priming of enhancers predicts developmental competence of hESC-derived endodermal lineage intermediates. *Cell Stem Cell*, **2015**, 16, 386-99	18	156
84	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	11.5	155
83	A Notch-dependent molecular circuitry initiates pancreatic endocrine and ductal cell differentiation. *Development (Cambridge)*, **2012**, 139, 2488-99	6.6	155
82	N-methyladenine DNA Modification in Glioblastoma. *Cell*, **2018**, 175, 1228-1243.e20	56.2	153
81	NKX6 transcription factor activity is required for alpha- and beta-cell development in the pancreas. *Development (Cambridge)*, **2005**, 132, 3139-49	6.6	142
80	Sustained Neurog3 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, 9715-20	11.5	135
79	Stem cells versus plasticity in liver and pancreas regeneration. *Nature Cell Biology*, **2016**, 18, 238-45	23.4	116
78	Lineage fate of ductular reactions in liver injury and carcinogenesis. *Journal of Clinical Investigation*, **2015**, 125, 2445-57	15.9	104
77	Expression of Sox transcription factors in the developing mouse pancreas. *Developmental Dynamics* , **2003**, 227, 402-8	2.9	102
76	A dosage-dependent requirement for Sox9 in pancreatic endocrine cell formation. *Developmental Biology*, **2008**, 323, 19-30	3.1	95
75	Pseudotemporal Ordering of Single Cells Reveals Metabolic Control of Postnatal □Cell Proliferation. *Cell Metabolism*, **2017**, 25, 1160-1175.e11	24.6	92
74	Complementary roles for Nkx6 and Nkx2 class proteins in the establishment of motoneuron identity in the hindbrain. *Development (Cambridge)*, **2003**, 130, 4149-59	6.6	91
73	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, 2491-500	6.6	86
72	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, 3907-12	11.5	85
71	Image-based detection and targeting of therapy resistance in pancreatic adenocarcinoma. *Nature*, **2016**, 534, 407-411	50.4	84
70	Hnf1b controls pancreas morphogenesis and the generation of Ngn3+ endocrine progenitors. *Development (Cambridge)*, **2015**, 142, 871-82	6.6	83
69	A Sox9/Fgf feed-forward loop maintains pancreatic organ identity. *Development (Cambridge)*, **2012**, 139, 3363-72	6.6	75
68	Progenitor cell domains in the developing and adult pancreas. *Cell Cycle*, **2011**, 10, 1921-7	4.7	69

67	Urocortin 3 marks mature human primary and embryonic stem cell-derived pancreatic alpha and beta cells. *PLoS ONE*, **2012**, 7, e52181	3.7	67
66	Endodermal expression of Nkx6 genes depends differentially on Pdx1. *Developmental Biology*, **2005** , 288, 487-501	3.1	59
65	Historical perspective: beginnings of the beta-cell: current perspectives in beta-cell development. *Diabetes*, **2011**, 60, 364-76	0.9	58
64	Cell of origin affects tumour development and phenotype in pancreatic ductal adenocarcinoma. *Gut*, **2019**, 68, 487-498	19.2	57
63	A Gene Regulatory Network Cooperatively Controlled by Pdx1 and Sox9 Governs Lineage Allocation of Foregut Progenitor Cells. *Cell Reports*, **2015**, 13, 326-36	10.6	56
62	In vivo-mimicking microfluidic perfusion culture of pancreatic islet spheroids. *Science Advances*, **2019**, 5, eaax4520	14.3	55
61	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, 2584-95	12.7	53
60	Pancreatic islet progenitor cells in neurogenin 3-yellow fluorescent protein knock-add-on mice. *Molecular Endocrinology*, **2004**, 18, 2765-76		53
59	Nkx6.1 controls migration and axon pathfinding of cranial branchio-motoneurons. *Development (Cambridge)*, **2003**, 130, 5815-26	6.6	53
58	Sox9 and Sox8 protect the adult testis from male-to-female genetic reprogramming and complete degeneration. *ELife*, **2016**, 5,	8.9	52
57	Nkx6-1 controls the identity and fate of red nucleus and oculomotor neurons in the mouse midbrain. *Development (Cambridge)*, **2009**, 136, 2545-55	6.6	50
56	ECM Signaling Regulates Collective Cellular Dynamics to Control Pancreas Branching Morphogenesis. *Cell Reports*, **2016**, 14, 169-79	10.6	46
55	Region-specific and stage-dependent regulation of Olig gene expression and oligodendrogenesis by Nkx6.1 homeodomain transcription factor. *Development (Cambridge)*, **2003**, 130, 6221-31	6.6	43
54	LIM domain-binding 1 maintains the terminally differentiated state of pancreatic βcells. *Journal of Clinical Investigation*, **2017**, 127, 215-229	15.9	43
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	13.3	42
52	Pancreatic islet chromatin accessibility and conformation reveals distal enhancer networks of type 2 diabetes risk. *Nature Communications*, **2019**, 10, 2078	17.4	41
51	Evaluation of Different Decellularization Protocols on the Generation of Pancreas-Derived Hydrogels. *Tissue Engineering - Part C: Methods*, **2018**, 24, 697-708	2.9	37
50	Advances in βcell replacement and regeneration strategies for treating diabetes. *Journal of Clinical Investigation*, **2016**, 126, 3651-3660	15.9	36

49	Prdm12 specifies V1 interneurons through cross-repressive interactions with Dbx1 and Nkx6 genes in Xenopus. *Development (Cambridge)*, **2015**, 142, 3416-28	6.6	30
48	Sox9-haploinsufficiency causes glucose intolerance in mice. *PLoS ONE*, **2011**, 6, e23131	3.7	29
47	Integrated In Vivo Quantitative Proteomics and Nutrient Tracing Reveals Age-Related Metabolic Rewiring of Pancreatic β-Cell Function. *Cell Reports*, **2018**, 25, 2904-2918.e8	10.6	29
46	Pancreatic islet-autonomous insulin and smoothened-mediated signalling modulate identity changes of glucagon α-cells. *Nature Cell Biology*, **2018**, 20, 1267-1277	23.4	29
45	Interrogating islets in health and disease with single-cell technologies. *Molecular Metabolism*, **2017**, 6, 991-1001	8.8	26
44	The role of Sox9 in mouse mammary gland development and maintenance of mammary stem and luminal progenitor cells. *BMC Developmental Biology*, **2014**, 14, 47	3.1	25
43	Nomenclature for cellular plasticity: are the terms as plastic as the cells themselves?. *EMBO Journal* , **2019**, 38, e103148	13	24
42	Systematic analysis of binding of transcription factors to noncoding variants. *Nature*, **2021**, 591, 147-151	50.4	23
41	Transgenic overexpression of the transcription factor Nkx6.1 in β-cells of mice does not increase β-cell proliferation, β-cell mass, or improve glucose clearance. *Molecular Endocrinology*, **2011**, 25, 1904-14		22
40	Analysis of mPygo2 mutant mice suggests a requirement for mesenchymal Wnt signaling in pancreatic growth and differentiation. *Developmental Biology*, **2008**, 318, 224-35	3.1	20
39	Interpreting type 1 diabetes risk with genetics and single-cell epigenomics. *Nature*, **2021**, 594, 398-402	50.4	20
38	A systems view of epigenetic networks regulating pancreas development and β-cell function. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2015**, 7, 1-11	6.6	19
37	Single cell chromatin accessibility reveals pancreatic islet cell type- and state-specific regulatory programs of diabetes risk		18
36	Single-cell chromatin accessibility identifies pancreatic islet cell type- and state-specific regulatory programs of diabetes risk. *Nature Genetics*, **2021**, 53, 455-466	36.3	18
35	Postnatal β-cell proliferation and mass expansion is dependent on the transcription factor Nkx6.1. *Diabetes*, **2015**, 64, 897-903	0.9	17
34	Expression of Nkx6 genes in the hindbrain and gut of the developing mouse. *Journal of Histochemistry and Cytochemistry*, **2005**, 53, 787-90	3.4	17
33	A Network of microRNAs Acts to Promote Cell Cycle Exit and Differentiation of Human Pancreatic Endocrine Cells. *IScience*, **2019**, 21, 681-694	6.1	15
32	Generating cells of the gastrointestinal system: current approaches and applications for the differentiation of human pluripotent stem cells. *Journal of Molecular Medicine*, **2012**, 90, 763-71	5.5	15

31	Human stem cell models: lessons for pancreatic development and disease. *Genes and Development*, **2019**, 33, 1475-1490	12.6	13
30	Rodent models for studying steroids and hypertension: from fetal development to cells in culture. *Steroids*, **1995**, 60, 59-64	2.8	13
29	Control of astrocyte progenitor specification, migration and maturation by Nkx6.1 homeodomain transcription factor. *PLoS ONE*, **2014**, 9, e109171	3.7	12
28	Differential Cell Susceptibilities to Kras in the Setting of Obstructive Chronic Pancreatitis. *Cellular and Molecular Gastroenterology and Hepatology*, **2019**, 8, 579-594	7.9	10
27	Trans-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation		10
26	Pancreas development ex vivo: culturing embryonic pancreas explants on permeable culture inserts, with fibronectin-coated glass microwells, or embedded in three-dimensional Matrigel® *Methods in Molecular Biology*, **2014**, 1210, 229-37	1.4	9
25	Pancreatic Exocrine Tissue Architecture and Integrity are Maintained by E-cadherin During Postnatal Development. *Scientific Reports*, **2018**, 8, 13451	4.9	9
24	A human ESC-based screen identifies a role for the translated lncRNA in pancreatic endocrine differentiation. *ELife*, **2020**, 9,	8.9	8
23	PRDM3 attenuates pancreatitis and pancreatic tumorigenesis by regulating inflammatory response. *Cell Death and Disease*, **2020**, 11, 187	9.8	7
22	LSD1-mediated enhancer silencing attenuates retinoic acid signalling during pancreatic endocrine cell development. *Nature Communications*, **2020**, 11, 2082	17.4	7
21	Multi-ancestry genetic study of type 2 diabetes highlights the power of diverse populations for discovery and translation.. *Nature Genetics*, **2022**,	36.3	7
20	Mutations and variants of ONECUT1 in diabetes. *Nature Medicine*, **2021**, 27, 1928-1940	50.5	6
19	Beta-cell dysfunction induced by non-cytotoxic concentrations of Interleukin-1β is associated with changes in expression of beta-cell maturity genes and associated histone modifications. *Molecular and Cellular Endocrinology*, **2019**, 496, 110524	4.4	5
18	Nutrient regulation of the islet epigenome controls adaptive insulin secretion		5
17	Pancreatic progenitor epigenome maps prioritize type 2 diabetes risk genes with roles in development. *ELife*, **2021**, 10,	8.9	5
16	Transcriptional mechanisms of pancreatic β-cell maturation and functional adaptation. *Trends in Endocrinology and Metabolism*, **2021**, 32, 474-487	8.8	5
15	ETV5 regulates ductal morphogenesis with Sox9 and is critical for regeneration from pancreatitis. *Developmental Dynamics*, **2018**, 247, 854-866	2.9	4
14	High T Gives β-Cells a Boost. *Cell Metabolism*, **2016**, 23, 761-3	24.6	4

13	What is a βcell? - Chapter I in the Human Islet Research Network (HIRN) review series. *Molecular Metabolism*, **2021**, 53, 101323	8.8	4
12	Sequence logic at enhancers governs a dual mechanism of endodermal organ fate induction by FOXA pioneer factors. *Nature Communications*, **2021**, 12, 6636	17.4	3
11	Transcriptional changes and the role of ONECUT1 in hPSC pancreatic differentiation. *Communications Biology*, **2021**, 4, 1298	6.7	2
10	A dual mechanism of enhancer activation by FOXA pioneer factors induces endodermal organ fates		2
9	Transformation of SOX9 cells by Pten deletion synergizes with steatotic liver injury to drive development of hepatocellular and cholangiocarcinoma. *Scientific Reports*, **2021**, 11, 11823	4.9	2
8	Career Advancement for Women in Diabetes-Related Research: Developing and Retaining Female Talent. *Diabetes Care*, **2021**, 44, 1744-1747	14.6	2
7	Pancreatic progenitor epigenome maps prioritize type 2 diabetes risk genes with roles in development		1
6	A network of microRNAs acts to promote cell cycle exit and differentiation of human pancreatic endocrine cells		1
5	Molecular cues regulating segregation of pancreatic, hepatic and intestinal lineages. *FASEB Journal*, **2011**, 25, 303.3	0.9	1
4	Inferring time series chromatin states for promoter-enhancer pairs based on Hi-C data. *BMC Genomics*, **2021**, 22, 84	4.5	1
3	A multi-omics roadmap of βcell failure in type 2 diabetes mellitus. *Nature Reviews Endocrinology*, **2021**, 17, 641-642	15.2	1
2	Deletion of ABCB10 in beta-cells protects from high-fat diet induced insulin resistance. *Molecular Metabolism*, **2021**, 55, 101403	8.8	
1	Pancreatic Differentiation from Human Pluripotent Stem Cells **2016**, 257-275		