Heiko Lickert

List of Publications by Year
in descending order

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Version: 2024-02-01

118 papers	8,688 citations	50276 46 h-index	51608 86 g-index
135 all docs	135 docs citations	135 times ranked	13498 citing authors

#	Article	IF	Citations
1	Novel biomarkers for preâ€diabetes identified by metabolomics. Molecular Systems Biology, 2012, 8, 615.	7.2	605
2	Animal models of obesity and diabetes mellitus. Nature Reviews Endocrinology, 2018, 14, 140-162.	9.6	563
3	Baf60c is essential for function of BAF chromatin remodelling complexes in heart development. Nature, 2004, 432, 107-112.	27.8	478
4	SARS-CoV-2 infects and replicates in cells of the human endocrine and exocrine pancreas. Nature Metabolism, 2021, 3, 149-165.	11.9	378
5	CellRank for directed single-cell fate mapping. Nature Methods, 2022, 19, 159-170.	19.0	286
6	Identification of proliferative and mature Î²-cells in the islets of Langerhans. Nature, 2016, 535, 430-434.	27.8	279
7	Transgenic RNA interference in ES cellâ€"derived embryos recapitulates a genetic null phenotype. Nature Biotechnology, 2003, 21, 559-561.	17.5	276
8	Formation of Multiple Hearts in Mice following Deletion of Î²-catenin in the Embryonic Endoderm. Developmental Cell, 2002, 3, 171-181.	7.0	252
9	Reptin and Pontin Antagonistically Regulate Heart Growth in Zebrafish Embryos. Cell, 2002, 111, 661-672.	28.9	200
10	IFITM/Mil/Fragilis Family Proteins IFITM1 and IFITM3 Play Distinct Roles in Mouse Primordial Germ Cell Homing and Repulsion. Developmental Cell, 2005, 9, 745-756.	7.0	189
11	Neurotrophin receptors TrkA and TrkC cause neuronal death whereas TrkB does not. Nature, 2010, 467, 59-63.	27.8	189
12	Foxa2 regulates polarity and epithelialization in the endoderm germ layer of the mouse embryo. Development (Cambridge), 2009, 136, 1029-1038.	2.5	180
13	Early myeloid lineage choice is not initiated by random PU.1 to GATA1 protein ratios. Nature, 2016, 535, 299-302.	27.8	180
14	Casein Kinase II Phosphorylation of E-cadherin Increases E-cadherin/Î²-Catenin Interaction and Strengthens Cell-Cell Adhesion. Journal of Biological Chemistry, 2000, 275, 5090-5095.	3.4	179
15	Concepts and limitations for learning developmental trajectories from single cell genomics. Development (Cambridge), 2019, 146, .	2.5	177
16	Foxh1 Is Essential for Development of the Anterior Heart Field. Developmental Cell, 2004, 7, 331-345.	7.0	173
17	Development and Clinical Translation of Approved Gene Therapy Products for Genetic Disorders. Frontiers in Genetics, 2019, 10, 868.	2.3	168
18	Impact of islet architecture on Î²-cell heterogeneity, plasticity and function. Nature Reviews Endocrinology, 2016, 12, 695-709.	9.6	150

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19	Massive single-cell mRNA profiling reveals a detailed roadmap for pancreatic endocrinogenesis. Development (Cambridge), 2019, 146, .	2.5	145
20	Pitchfork Regulates Primary Cilia Disassembly and Left-Right Asymmetry. Developmental Cell, 2010, 19, 66-77.	7.0	133
21	Cellular and molecular mechanisms coordinating pancreas development. Development (Cambridge), 2017, 144, 2873-2888.	2.5	129
22	The glucose-dependent insulinotropic polypeptide (GIP) regulates body weight and food intake via CNS-GIPR signaling. Cell Metabolism, 2021, 33, 833-844.e5.	16.2	128
23	Baf60c is a nuclear Notch signaling component required for the establishment of leftâ€“right asymmetry. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 846-851.	7.1	108
24	Lineage tracing of the endoderm during oral development. Developmental Dynamics, 2012, 241, 1183-1191.	1.8	95
25	Systematic single-cell analysis provides new insights into heterogeneity and plasticity of the pancreas. Molecular Metabolism, 2017, 6, 974-990.	6.5	95
26	Expression patterns of Wnt genes in mouse gut development. Mechanisms of Development, 2001, 105, 181-184.	1.7	94
27	Targeted pharmacological therapy restores Î²-cell function for diabetes remission. Nature Metabolism, 2020, 2, 192-209.	11.9	93
28	Biallelic Expression of Nanog Protein in Mouse Embryonic Stem Cells. Cell Stem Cell, 2013, 13, 12-13.	11.1	86
29	Inferring population dynamics from single-cell RNA-sequencing time series data. Nature Biotechnology, 2019, 37, 461-468.	17.5	85
30	The mouse homeobox gene <i>Not</i> is required for caudal notochord development and affected by the truncate mutation. Genes and Development, 2004, 18, 1725-1736.	5.9	84
31	Wnt/Î²-catenin signalling regulates <i>Sox17</i> expression and is essential for organizer and endoderm formation in the mouse. Development (Cambridge), 2013, 140, 3128-3138.	2.5	84
32	Microarray analysis of Foxa2 mutant mouse embryos reveals novel gene expression and inductive roles for the gastrula organizer and its derivatives. BMC Genomics, 2008, 9, 511.	2.8	76
33	Phenotypic annotation of the mouse X chromosome. Genome Research, 2010, 20, 1154-1164.	5.5	75
34	<i>Mind bomb 1</i> is required for pancreatic Î²-cell formation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7356-7361.	7.1	74
35	Modelling the endocrine pancreas in health and disease. Nature Reviews Endocrinology, 2019, 15, 155-171.	9.6	71
36	Generation of pancreatic Î² cells from CD177+ anterior definitive endoderm. Nature Biotechnology, 2020, 38, 1061-1072.	17.5	68

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37	Genome-wide analysis of PDX1 target genes in human pancreatic progenitors. Molecular Metabolism, 2018, 9, 57-68.	6.5	67
38	Induction of MesP1 by Brachyury(T) generates the common multipotent cardiovascular stem cell. Cardiovascular Research, 2011, 92, 115-122.	3.8	66
39	Foxa2 and Pdx1 cooperatively regulate postnatal maturation of pancreatic Î²-cells. Molecular Metabolism, 2017, 6, 524-534.	6.5	65
40	Pre-marked chromatin and transcription factor co-binding shape the pioneering activity of Foxa2. Nucleic Acids Research, 2019, 47, 9069-9086.	14.5	65
41	The Disruption of Adherens Junctions Is Associated with a Decrease of E-Cadherin Phosphorylation by Protein Kinase CK2. Experimental Cell Research, 2000, 257, 255-264.	2.6	64
42	Single-cell-resolved differentiation of human induced pluripotent stem cells into pancreatic duct-like organoids on a microwell chip. Nature Biomedical Engineering, 2021, 5, 897-913.	22.5	61
43	Engineering islets from stem cells for advanced therapies of diabetes. Nature Reviews Drug Discovery, 2021, 20, 920-940.	46.4	61
44	Î²-Cell Maturation and Identity in Health and Disease. International Journal of Molecular Sciences, 2019, 20, 5417.	4.1	60
45	Point mutations in the PDX1 transactivation domain impair human Î²-cell development and function. Molecular Metabolism, 2019, 24, 80-97.	6.5	58
46	Sox17â€2Aâ€iCre: A knockâ€in mouse line expressing Cre recombinase in endoderm and vascular endothelial cells. Genesis, 2009, 47, 603-610.	1.6	56
47	Inceptor counteracts insulin signalling in Î²-cells to control glycaemia. Nature, 2021, 590, 326-331.	27.8	55
48	Genetic ablation of FLRT3 reveals a novel morphogenetic function for the anterior visceral endoderm in suppressing mesoderm differentiation. Genes and Development, 2008, 22, 3349-3362.	5.9	54
49	PDX1LOW MAFALOW Î²-cells contribute to islet function and insulin release. Nature Communications, 2021, 12, 674.	12.8	51
50	Dlg3 Trafficking and Apical Tight Junction Formation Is Regulated by Nedd4 and Nedd4-2 E3Â Ubiquitin Ligases. Developmental Cell, 2011, 21, 479-491.	7.0	48
51	Islet cell plasticity and regeneration. Molecular Metabolism, 2014, 3, 268-274.	6.5	48
52	Diet-induced alteration of intestinal stem cell function underlies obesity and prediabetes in mice. Nature Metabolism, 2021, 3, 1202-1216.	11.9	47
53	Flattop regulates basal body docking and positioning in mono- and multiciliated cells. ELife, 2014, 3, .	6.0	47
54	Endoderm Generates Endothelial Cells during Liver Development. Stem Cell Reports, 2014, 3, 556-565.	4.8	46

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55	Non-canonical Wnt/PCP signalling regulates intestinal stem cell lineage priming towards enteroendocrine and Paneth cell fates. Nature Cell Biology, 2021, 23, 23-31.	10.3	46
56	Modification of the E-cadherin-Catenin Complex in Mitotic Madin-Darby Canine Kidney Epithelial Cells. Journal of Biological Chemistry, 1998, 273, 28314-28321.	3.4	44
57	Betatrophin Fuels Î² Cell Proliferation: First Step toward Regenerative Therapy?. Cell Metabolism, 2013, 18, 5-6.	16.2	43
58	Epithelial cell plasticity drives endoderm formation during gastrulation. Nature Cell Biology, 2021, 23, 692-703.	10.3	41
59	A mouse line expressing Foxa2â€driven Cre recombinase in node, notochord, floorplate, and endoderm. Genesis, 2008, 46, 515-522.	1.6	38
60	The human transcriptome is enriched for miRNA-binding sites located in cooperativity-permitting distance. RNA Biology, 2013, 10, 1125-1135.	3.1	38
61	scPower accelerates and optimizes the design of multi-sample single cell transcriptomic studies. Nature Communications, 2021, 12, 6625.	12.8	38
62	The Sox17â€mCherry fusion mouse line allows visualization of endoderm and vascular endothelial development. Genesis, 2012, 50, 496-505.	1.6	37
63	The global gene expression profile of the secondary transition during pancreatic development. Mechanisms of Development, 2016, 139, 51-64.	1.7	32
64	A high-content small molecule screen identifies novel inducers of definitive endoderm. Molecular Metabolism, 2017, 6, 640-650.	6.5	32
65	Wnt signaling: implications in endoderm development and pancreas organogenesis. Current Opinion in Cell Biology, 2019, 61, 48-55.	5.4	30
66	Direct Substrate Delivery Into Mitochondrial Fissionâ€"Deficient Pancreatic Islets Rescues Insulin Secretion. Diabetes, 2017, 66, 1247-1257.	0.6	28
67	CD81 marks immature and dedifferentiated pancreatic Î²-cells. Molecular Metabolism, 2021, 49, 101188.	6.5	26
68	Foxa2â€venus fusion reporter mouse line allows liveâ€cell analysis of endodermâ€derived organ formation. Genesis, 2013, 51, 596-604.	1.6	25
69	Epithelial Planar Bipolarity Emerges from Notch-Mediated Asymmetric Inhibition of Emx2. Current Biology, 2020, 30, 1142-1151.e6.	3.9	25
70	Pharmacological Targeting of Endoplasmic Reticulum Stress in Pancreatic Beta Cells. Trends in Pharmacological Sciences, 2021, 42, 85-95.	8.7	25
71	Neural tube closure depends on expression of Grainyhead-like 3 in multiple tissues. Developmental Biology, 2018, 435, 130-137.	2.0	24
72	DLL1- and DLL4-Mediated Notch Signaling Is Essential for Adult Pancreatic Islet Homeostasis. Diabetes, 2020, 69, 915-926.	0.6	24

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73	Dual embryonic origin of the mammalian enteric nervous system. Developmental Biology, 2019, 445, 256-270.	2.0	23
74	Engineering Gene Therapy: Advances and Barriers. Advanced Therapeutics, 2021, 4, 2100040.	3.2	23
75	Establishment of a high-resolution 3D modeling system for studying pancreatic epithelial cell biology inÂvitro. Molecular Metabolism, 2019, 30, 16-29.	6.5	22
76	Pitchfork and Gprasp2 Target Smoothened to the Primary Cilium for Hedgehog Pathway Activation. PLoS ONE, 2016, 11, e0149477.	2.5	21
77	Anatomical and cellular heterogeneity in the mouse oviductâ€"its potential roles in reproduction and preimplantation development. Biology of Reproduction, 2021, 104, 1249-1261.	2.7	20
78	FltpT2AiCre: A new knock-in mouse line for conditional gene targeting in distinct mono- and multiciliated tissues. Differentiation, 2012, 83, S105-S113.	1.9	19
79	Asc-1 regulates white versus beige adipocyte fate in a subcutaneous stromal cell population. Nature Communications, 2021, 12, 1588.	12.8	17
80	Sprouty genes are essential for the normal development of epibranchial ganglia in the mouse embryo. Developmental Biology, 2011, 358, 147-155.	2.0	16
81	Neurog3-dependent pancreas dysgenesis causes ectopic pancreas in Hes1 mutants. Development (Cambridge), 2018, 145, .	2.5	15
82	Sorting Out Fate Determination. Developmental Cell, 2019, 49, 1-3.	7.0	15
83	SimiRa: A tool to identify coregulation between microRNAs and RNA-binding proteins. RNA Biology, 2015, 12, 998-1009.	3.1	14
84	Identification and characterization of distinct brown adipocyte subtypes in C57BL/6J mice. Life Science Alliance, 2021, 4, e202000924.	2.8	14
85	Beyond association: A functional role for Tcf7l2 in Î²-cell development. Molecular Metabolism, 2015, 4, 365-366.	6.5	13
86	Generation of a human induced pluripotent stem cell (iPSC) line from a patient carrying a P33T mutation in the PDX1 gene. Stem Cell Research, 2016, 17, 273-276.	0.7	12
87	Generation of a human induced pluripotent stem cell (iPSC) line from a patient with family history of diabetes carrying a C18R mutation in the PDX1 gene. Stem Cell Research, 2016, 17, 292-295.	0.7	12
88	EU-OPENSCREEN: A Novel Collaborative Approach to Facilitate Chemical Biology. SLAS Discovery, 2019, 24, 398-413.	2.7	12
89	Vertical sleeve gastrectomy triggers fast Î²-cell recovery upon overt diabetes. Molecular Metabolism, 2021, 54, 101330.	6.5	10
90	A novel Creâ€inducible knockâ€in ARL13Bâ€tRFP fusion cilium reporter. Genesis, 2017, 55, e23073.	1.6	8

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91	Maintenance of hematopoietic stem and progenitor cells in fetal intra-aortic hematopoietic clusters by the Sox17-Notch1-Hes1 axis. Experimental Cell Research, 2018, 365, 145-155.	2.6	8
92	A map of Î²-cell differentiation pathways supports cell therapies for diabetes. Nature, 2019, 569, 342-343.	27.8	8
93	Understanding Pancreas Development for Î²-Cell Repair and Replacement Therapies. Current Diabetes Reports, 2012, 12, 481-489.	4.2	7
94	Increasing Gene Editing Efficiency for CRISPR-Cas9 by Small RNAs in Pluripotent Stem Cells. CRISPR Journal, 2021, 4, 491-501.	2.9	7
95	Sequential in vivo labeling of insulin secretory granule pools in<i>INS</i>-<i>SNAP</i>transgenic pigs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
96	Repurposing an Osteoporosis Drug for Î² Cell Regeneration in Diabetic Patients. Cell Metabolism, 2015, 22, 58-59.	16.2	6
97	Generation of an INSULIN-H2B-Cherry reporter human iPSC line. Stem Cell Research, 2020, 45, 101797.	0.7	6
98	Automated optimization of endoderm differentiation on chip. Lab on A Chip, 2021, 21, 4685-4695.	6.0	6
99	Homology arms of targeting vectors for gene insertions and CRISPR/Cas9 technology: size does not matter; quality control of targeted clones does. Cellular and Molecular Biology Letters, 2015, 20, 773-87.	7.0	5
100	Residual pluripotency is required for inductive germ cell segregation. EMBO Reports, 2021, 22, e52553.	4.5	5
101	Evolution of the Discs large gene family provides new insights into the establishment of apical epithelial polarity and the etiology of mental retardation. Communicative and Integrative Biology, 2012, 5, 287-290.	1.4	4
102	Targeting insulin-producing beta cells for regenerative therapy. Diabetologia, 2016, 59, 1838-1842.	6.3	4
103	Synaptotagmin-13 Is a Neuroendocrine Marker in Brain, Intestine and Pancreas. International Journal of Molecular Sciences, 2021, 22, 12526.	4.1	4
104	New insights into Î²-cell failure, regeneration and replacement. Nature Reviews Endocrinology, 2022, 18, 79-80.	9.6	4
105	Generation of a human iPSC line harboring a biallelic large deletion at the INK4 locus (HMGUi001-A-5). Stem Cell Research, 2020, 47, 101927.	0.7	3
106	Generation of a heterozygous C-peptide-mCherry reporter human iPSC line (HMGUi001-A-8). Stem Cell Research, 2021, 50, 102126.	0.7	3
107	A point mutation in the Pdia6 gene results in loss of pancreatic Î²-cell identity causing overt diabetes. Molecular Metabolism, 2021, 54, 101334.	6.5	3
108	Charting the next century of insulin replacement with cell and gene therapies. Med, 2021, 2, 1138-1162.	4.4	3

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109	Cell makeover for diabetes therapy. Nature Metabolism, 2019, 1, 312-313.	11.9	2
110	Generation of a human induced pluripotent stem cell line (HMGUi002-A) from a healthy male individual. Stem Cell Research, 2019, 39, 101531.	0.7	1
111	Pharmacological Targeting of the Actin Cytoskeleton to Drive Endocrinogenesis. Trends in Pharmacological Sciences, 2020, 41, 384-386.	8.7	1
112	Generation of a homozygous ARX nuclear CFP (ARX) reporter human iPSC line (HMGUi001-A-4). Stem Cell Research, 2020, 46, 101874.	0.7	1
113	Engineering Gene Therapy: Advances and Barriers (Adv. Therap. 9/2021). Advanced Therapeutics, 2021, 4, 2170023.	3.2	1
114	Islet biology. Molecular Metabolism, 2017, 6, vi.	6.5	0
115	Engineering Skin with Skinny Genes. Cell Stem Cell, 2017, 21, 153-155.	11.1	0
116	Generation of a Novel Nkx6-1 Venus Fusion Reporter Mouse Line. International Journal of Molecular Sciences, 2021, 22, 3434.	4.1	0
117	Pharmacological Aspects of Clinically Approved Gene Therapy Drugs and Products. , 2022, , .		0
118	Awaking sleeping islets for a cure ofÂdiabetes. Med, 2022, 3, 279-280.	4.4	0