Rene Maehr

List of Publications by Year
in descending order

48 papers	9,177 citations	126858 33 h-index	206029 48 g-index
54 all docs	54 docs citations	54 times ranked	12983 citing authors

#	Article	IF	Citations
1	Induction of pluripotent stem cells by defined factors is greatly improved by small-molecule compounds. Nature Biotechnology, 2008, 26, 795-797.	9.4	1,491
2	Induction of pluripotent stem cells from primary human fibroblasts with only Oct4 and Sox2. Nature Biotechnology, 2008, 26, 1269-1275.	9.4	1,249
3	The Angelman Syndrome Protein Ube3A Regulates Synapse Development by Ubiquitinating Arc. Cell, 2010, 140, 704-716.	13.5	554
4	Functional annotation of native enhancers with a Cas9â€“histone demethylase fusion. Nature Methods, 2015, 12, 401-403.	9.0	548
5	Generation of pluripotent stem cells from patients with type 1 diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15768-15773.	3.3	534
6	A small molecule that directs differentiation of human ESCs into the pancreatic lineage. Nature Chemical Biology, 2009, 5, 258-265.	3.9	454
7	Small Molecules Efficiently Direct Endodermal Differentiation of Mouse and Human Embryonic Stem Cells. Cell Stem Cell, 2009, 4, 348-358.	5.2	404
8	Ultrastructural Details of Mammalian Chromosome Architecture. Molecular Cell, 2020, 78, 554-565.e7.	4.5	359
9	SCFÎ²-TRCP controls oncogenic transformation and neural differentiation through REST degradation. Nature, 2008, 452, 370-374.	13.7	289
10	Sox17 promotes differentiation in mouse embryonic stem cells by directly regulating extraembryonic gene expression and indirectly antagonizing self-renewal. Genes and Development, 2010, 24, 312-326.	2.7	270
11	Cas9 effector-mediated regulation of transcription and differentiation in human pluripotent stem cells. Development (Cambridge), 2014, 141, 219-223.	1.2	255
12	Analysis of self-antigen specificity of islet-infiltrating T cells from human donors with type 1 diabetes. Nature Medicine, 2016, 22, 1482-1487.	15.2	232
13	Differential dependence of CD4+CD25+ regulatory and natural killer-like T cells on signals leading to NF-ÂB activation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4566-4571.	3.3	218
14	Analysis of Protease Activity in Live Antigen-presenting Cells Shows Regulation of the Phagosomal Proteolytic Contents During Dendritic Cell Activation. Journal of Experimental Medicine, 2002, 196, 529-540.	4.2	201
15	A Single-Cell Transcriptomic Atlas of Thymus Organogenesis Resolves Cell Types and Developmental Maturation. Immunity, 2018, 48, 1258-1270.e6.	6.6	147
16	De Novo Formation of Insulin-Producing â€œNeo-Î² Cell Isletsâ€•from Intestinal Crypts. Cell Reports, 2014, 6, 1046-1058.	2.9	142
17	The mouse polyubiquitin gene UbC is essential for fetal liver development, cell-cycle progression and stress tolerance. EMBO Journal, 2007, 26, 2693-2706.	3.5	138
18	SARS-CoV-2 Initiates Programmed Cell Death in Platelets. Circulation Research, 2021, 129, 631-646.	2.0	126

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19	Reversal of Î² cell de-differentiation by a small molecule inhibitor of the TGFÎ² pathway. ELife, 2014, 3, e02809.	2.8	116
20	Systematic evaluation of chromosome conformation capture assays. Nature Methods, 2021, 18, 1046-1055.	9.0	108
21	Diverse repertoire of human adipocyte subtypes develops from transcriptionally distinct mesenchymal progenitor cells. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17970-17979.	3.3	106
22	Asparagine Endopeptidase Is Not Essential for Class II MHC Antigen Presentation but Is Required for Processing of Cathepsin L in Mice. Journal of Immunology, 2005, 174, 7066-7074.	0.4	98
23	A diamidobenzimidazole STING agonist protects against SARS-CoV-2 infection. Science Immunology, 2021, 6, .	5.6	96
24	Wnt signaling specifies and patterns intestinal endoderm. Mechanisms of Development, 2011, 128, 387-400.	1.7	94
25	Live Imaging of Cysteine-Cathepsin Activity Reveals Dynamics of Focal Inflammation, Angiogenesis, and Polyp Growth. PLoS ONE, 2008, 3, e2916.	1.1	94
26	Inferring population dynamics from single-cell RNA-sequencing time series data. Nature Biotechnology, 2019, 37, 461-468.	9.4	85
27	Invariant Chain Controls the Activity of Extracellular Cathepsin L. Journal of Experimental Medicine, 2002, 196, 1263-1270.	4.2	81
28	Single-Cell RNA-Sequencing-Based CRISPRi Screening Resolves Molecular Drivers of Early Human Endoderm Development. Cell Reports, 2019, 27, 708-718.e10.	2.9	81
29	Cathepsin L is essential for onset of autoimmune diabetes in NOD mice. Journal of Clinical Investigation, 2005, 115, 2934-2943.	3.9	74
30	Mechanism-Based Probe for the Analysis of Cathepsin Cysteine Proteases in Living Cells. ACS Chemical Biology, 2006, 1, 713-723.	1.6	70
31	Lamin B2 Levels Regulate Polyploidization of Cardiomyocyte Nuclei and Myocardial Regeneration. Developmental Cell, 2020, 53, 42-59.e11.	3.1	57
32	The ubiquitinâ€“proteasome pathway in thymocyte apoptosis: caspase-dependent processing of the deubiquitinating enzyme USP7 (HAUSP). Molecular Immunology, 2002, 39, 431-441.	1.0	41
33	AIDâ^'/â^'Î¼sâ^'/â^' Mice Are Agammaglobulinemic and Fail to Maintain B220â^'CD138+ Plasma Cells. Journal of Immunology, 2007, 178, 2192-2203.	0.4	41
34	Generation of organized anterior foregut epithelia from pluripotent stem cells using small molecules. Stem Cell Research, 2013, 11, 1003-1012.	0.3	34
35	Functional Proteomics of the Active Cysteine Protease Content in Drosophila S2 Cells. Molecular and Cellular Proteomics, 2003, 2, 1188-1197.	2.5	33
36	Development of an isotope-coded activity-based probe for the quantitative profiling of cysteine proteases. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 3131-3134.	1.0	31

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37	Using an Inducible CRISPR-dCas9-KRAB Effector System to Dissect Transcriptional Regulation in Human Embryonic Stem Cells. Methods in Molecular Biology, 2017, 1507, 221-233.	0.4	31
38	Transcriptional Regulation with CRISPR/Cas9 Effectors in Mammalian Cells. Methods in Molecular Biology, 2016, 1358, 43-57.	0.4	28
39	Integration of single-cell transcriptomes and chromatin landscapes reveals regulatory programs driving pharyngeal organ development. Nature Communications, 2022, 13, 457.	5.8	22
40	Brief Report: VGLL4 Is a Novel Regulator of Survival in Human Embryonic Stem Cells. Stem Cells, 2013, 31, 2833-2841.	1.4	20
41	Pax9 is required for cardiovascular development and interacts with Tbx1 in the pharyngeal endoderm to control 4th pharyngeal arch artery morphogenesis. Development (Cambridge), 2019, 146, .	1.2	19
42	Mice deficient in invariant-chain and MHC class II exhibit a normal mature B2 cell compartment. European Journal of Immunology, 2004, 34, 2230-2236.	1.6	17
43	Mesenchymal Stromal Cell-Derived Extracellular Vesicles Restore Thymic Architecture and T Cell Function Disrupted by Neonatal Hyperoxia. Frontiers in Immunology, 2021, 12, 640595.	2.2	17
44	Immune-privileged embryonic Swiss mouse STO and STO cell-derived progenitor cells: major histocompatibility complex and cell differentiation antigen expression patterns resemble those of human embryonic stem cell lines. Immunology, 2006, 119, 98-115.	2.0	15
45	Controlling transcription in human pluripotent stem cells using CRISPR-effectors. Methods, 2016, 101, 36-42.	1.9	15
46	iMyoblasts for ex vivo and in vivo investigations of human myogenesis and disease modeling. ELife, 2022, 11, .	2.8	13
47	Combinatorial action of NFâ€“Y and TALE at embryonic enhancers defines distinct gene expression programs during zygotic genome activation in zebrafish. Developmental Biology, 2020, 459, 161-180.	0.9	8
48	Differentiation of human pluripotent stem cells toward pharyngeal endoderm derivatives: Current status and potential. Current Topics in Developmental Biology, 2020, 138, 175-208.	1.0	5