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	Integration of single-cell transcriptomes and chromatin landscapes reveals regulatory programs driving pharyngeal organ development. Nature Communications, 2022, 13, 457.	5.8	22
2	iMyoblasts for ex vivo and in vivo investigations of human myogenesis and disease modeling. ELife, 2022, 11, .	2.8	13
3	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
4	A diamidobenzimidazole STING agonist protects against SARS-CoV-2 infection. Science Immunology, 2021, 6, .	5.6	96
5	Systematic evaluation of chromosome conformation capture assays. Nature Methods, 2021, 18, 1046-1055.	9.0	108
6	SARS-CoV-2 Initiates Programmed Cell Death in Platelets. Circulation Research, 2021, 129, 631-646.	2.0	126
7	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
8	Ultrastructural Details of Mammalian Chromosome Architecture. Molecular Cell, 2020, 78, 554-565.e7.	4.5	359
9	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
10	Lamin B2 Levels Regulate Polyploidization of Cardiomyocyte Nuclei and Myocardial Regeneration. Developmental Cell, 2020, 53, 42-59.e11.	3.1	57
11	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
12	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
13	Inferring population dynamics from single-cell RNA-sequencing time series data. Nature Biotechnology, 2019, 37, 461-468.	9.4	85
14	<i>Pax9</i> is required for cardiovascular development and interacts with <i>Tbx1</i> in the pharyngeal endoderm to control 4th pharyngeal arch artery morphogenesis. Development (Cambridge), 2019, 146, .	1.2	19
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	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
17	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
18	Controlling transcription in human pluripotent stem cells using CRISPR-effectors. Methods, 2016, 101, 36-42.	1.9	15

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19	Transcriptional Regulation with CRISPR/Cas9 Effectors in Mammalian Cells. Methods in Molecular Biology, 2016, 1358, 43-57.	0.4	28
20	Functional annotation of native enhancers with a Cas9â€"histone demethylase fusion. Nature Methods, 2015, 12, 401-403.	9.0	548
21	Cas9 effector-mediated regulation of transcription and differentiation in human pluripotent stem cells. Development (Cambridge), 2014, 141, 219-223.	1.2	255
22	De Novo Formation of Insulin-Producing â€œNeo-Î² Cell Isletsâ€•from Intestinal Crypts. Cell Reports, 2014, 6, 1046-1058.	2.9	142
23	Reversal of Î² cell de-differentiation by a small molecule inhibitor of the TGFÎ² pathway. ELife, 2014, 3, e02809.	2.8	116
24	Generation of organized anterior foregut epithelia from pluripotent stem cells using small molecules. Stem Cell Research, 2013, 11, 1003-1012.	0.3	34
25	Brief Report: VGLL4 Is a Novel Regulator of Survival in Human Embryonic Stem Cells. Stem Cells, 2013, 31, 2833-2841.	1.4	20
26	Wnt signaling specifies and patterns intestinal endoderm. Mechanisms of Development, 2011, 128, 387-400.	1.7	94
27	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
28	The Angelman Syndrome Protein Ube3A Regulates Synapse Development by Ubiquitinating Arc. Cell, 2010, 140, 704-716.	13.5	554
29	A small molecule that directs differentiation of human ESCs into the pancreatic lineage. Nature Chemical Biology, 2009, 5, 258-265.	3.9	454
30	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
31	Small Molecules Efficiently Direct Endodermal Differentiation of Mouse and Human Embryonic Stem Cells. Cell Stem Cell, 2009, 4, 348-358.	5.2	404
32	SCFÎ²-TRCP controls oncogenic transformation and neural differentiation through REST degradation. Nature, 2008, 452, 370-374.	13.7	289
33	Induction of pluripotent stem cells from primary human fibroblasts with only Oct4 and Sox2. Nature Biotechnology, 2008, 26, 1269-1275.	9.4	1,249
34	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
35	Live Imaging of Cysteine-Cathepsin Activity Reveals Dynamics of Focal Inflammation, Angiogenesis, and Polyp Growth. PLoS ONE, 2008, 3, e2916.	1.1	94
36	AIDâˆ'/âˆ'Î¼sâˆ'/âˆ' Mice Are Agammaglobulinemic and Fail to Maintain B220âˆ'CD138+ Plasma Cells. Journal of Immunology, 2007, 178, 2192-2203.	0.4	41

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37	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
38	Mechanism-Based Probe for the Analysis of Cathepsin Cysteine Proteases in Living Cells. ACS Chemical Biology, 2006, 1, 713-723.	1.6	70
39	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
40	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
41	Cathepsin L is essential for onset of autoimmune diabetes in NOD mice. Journal of Clinical Investigation, 2005, 115, 2934-2943.	3.9	74
42	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
43	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
44	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
45	Functional Proteomics of the Active Cysteine Protease Content in Drosophila S2 Cells. Molecular and Cellular Proteomics, 2003, 2, 1188-1197.	2.5	33
46	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
47	Invariant Chain Controls the Activity of Extracellular Cathepsin L. Journal of Experimental Medicine, 2002, 196, 1263-1270.	4.2	81
48	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