

# Jonathan Schug

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

1,731  
citations

22  
h-index

41  
g-index

42  
ext. papers

2,330  
ext. citations

8.5  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
40	Evaluating whole-genome expression differences in idiopathic and diabetic adhesive capsulitis. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2022</b> , 31, e1-e13	4.3	1
39	Single-cell multi-omics analysis of human pancreatic islets reveals novel cellular states in type 1 diabetes.. <i>Nature Metabolism</i> , <b>2022</b> , 4, 284-299	14.6	2
38	Single-cell analysis of the human pancreas in type 2 diabetes using multi-spectral imaging mass cytometry. <i>Cell Reports</i> , <b>2021</b> , 37, 109919	10.6	3
37	FoxA-dependent demethylation of DNA initiates epigenetic memory of cellular identity. <i>Developmental Cell</i> , <b>2021</b> , 56, 602-612.e4	10.2	7
36	Highly multiplexed 2-dimensional imaging mass cytometry analysis of HBV-infected liver. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9	4
35	CAMPAREE: a robust and configurable RNA expression simulator. <i>BMC Genomics</i> , <b>2021</b> , 22, 692	4.5	
34	Highly Multiplexed Image Analysis of Intestinal Tissue Sections in Patients With Inflammatory Bowel Disease. <i>Gastroenterology</i> , <b>2021</b> , 161, 1940-1952	13.3	4
33	Paternal Exercise Improves the Metabolic Health of Offspring via Epigenetic Modulation of the Germline.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 23,	6.3	5
32	A negative reciprocal regulatory axis between cyclin D1 and HNF4 $\alpha$ modulates cell cycle progression and metabolism in the liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 17177-17186	11.5	13
31	A High-Content Screen Identifies MicroRNAs That Regulate Liver Repopulation After Injury in Mice. <i>Gastroenterology</i> , <b>2020</b> , 158, 1044-1057.e17	13.3	4
30	Single-cell transcriptomics of human islet ontogeny defines the molecular basis of $\beta$ cell dedifferentiation in T2D. <i>Molecular Metabolism</i> , <b>2020</b> , 42, 101057	8.8	21
29	Multiplexed In Situ Imaging Mass Cytometry Analysis of the Human Endocrine Pancreas and Immune System in Type 1 Diabetes. <i>Cell Metabolism</i> , <b>2019</b> , 29, 769-783.e4	24.6	96
28	APOE2 orchestrated differences in transcriptomic and lipidomic profiles of postmortem AD brain. <i>Alzheimers Research and Therapy</i> , <b>2019</b> , 11, 113	9	17
27	miRNA142-3p targets Tet2 and impairs Treg differentiation and stability in models of type 1 diabetes. <i>Nature Communications</i> , <b>2019</b> , 10, 5697	17.4	27
26	Sleeve Gastrectomy Improves Glycemia Independent of Weight Loss by Restoring Hepatic Insulin Sensitivity. <i>Diabetes</i> , <b>2018</b> , 67, 1079-1085	0.9	21
25	A miRNA181a/NFAT5 axis links impaired T cell tolerance induction with autoimmune type 1 diabetes. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	37
24	Integrated approach reveals diet, APOE genotype and sex affect immune response in APP mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 152-161	6.9	17

23	Defiant: (DMRs: easy, fast, identification and ANnotation) identifies differentially Methylated regions from iron-deficient rat hippocampus. <i>BMC Bioinformatics</i> , <b>2018</b> , 19, 31	3.6	17
22	Genome-wide Identification of Structure-Forming Repeats as Principal Sites of Fork Collapse upon ATR Inhibition. <i>Molecular Cell</i> , <b>2018</b> , 72, 222-238.e11	17.6	36
21	Functional and Metabolomic Consequences of K Channel Inactivation in Human Islets. <i>Diabetes</i> , <b>2017</b> , 66, 1901-1913	0.9	28
20	Gene co-expression networks identify Trem2 and Tyrobp as major hubs in human APOE expressing mice following traumatic brain injury. <i>Neurobiology of Disease</i> , <b>2017</b> , 105, 1-14	7.5	28
19	A comparison of Illumina and Ion Torrent sequencing platforms in the context of differential gene expression. <i>BMC Genomics</i> , <b>2017</b> , 18, 602	4.5	38
18	Effect of high fat diet on phenotype, brain transcriptome and lipidome in Alzheimer's model mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 4307	4.9	45
17	Reprogramming human gallbladder cells into insulin-producing $\beta$ like cells. <i>PLoS ONE</i> , <b>2017</b> , 12, e0181812, 7	3.7	18
16	The next generation of target capture technologies - large DNA fragment enrichment and sequencing determines regional genomic variation of high complexity. <i>BMC Genomics</i> , <b>2016</b> , 17, 486	4.5	48
15	Single-Cell Transcriptomics of the Human Endocrine Pancreas. <i>Diabetes</i> , <b>2016</b> , 65, 3028-38	0.9	223
14	Integration of ATAC-seq and RNA-seq identifies human alpha cell and beta cell signature genes. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 233-244	8.8	139
13	ChIP-Seq: Library Preparation and Sequencing. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1402, 101-117	1.4	3
12	RXR controlled regulatory networks identified in mouse brain counteract deleterious effects of A $\beta$ oligomers. <i>Scientific Reports</i> , <b>2016</b> , 6, 24048	4.9	23
11	Single-Cell Mass Cytometry Analysis of the Human Endocrine Pancreas. <i>Cell Metabolism</i> , <b>2016</b> , 24, 616-626, 6	10.6	104
10	RNA-sequencing reveals transcriptional up-regulation of Trem2 in response to bexarotene treatment. <i>Neurobiology of Disease</i> , <b>2015</b> , 82, 132-140	7.5	23
9	Bexarotene-Activated Retinoid X Receptors Regulate Neuronal Differentiation and Dendritic Complexity. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 11862-76	6.6	41
8	Aging-Dependent Demethylation of Regulatory Elements Correlates with Chromatin State and Improved $\beta$ Cell Function. <i>Cell Metabolism</i> , <b>2015</b> , 22, 619-32	24.6	129
7	Dnmt1 is essential to maintain progenitors in the perinatal intestinal epithelium. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 2163-72	6.6	47
6	Epigenetic regulation of the DLK1-MEG3 microRNA cluster in human type 2 diabetic islets. <i>Cell Metabolism</i> , <b>2014</b> , 19, 135-45	24.6	241

5	Genome-wide approaches reveal EGR1-controlled regulatory networks associated with neurodegeneration. <i>Neurobiology of Disease</i> , <b>2014</b> , 63, 107-14	7.5	44
4	Islet-1 Is essential for pancreatic $\beta$ cell function. <i>Diabetes</i> , <b>2014</b> , 63, 4206-17	0.9	42
3	Two novel type 2 diabetes loci revealed through integration of TCF7L2 DNA occupancy and SNP association data. <i>BMJ Open Diabetes Research and Care</i> , <b>2014</b> , 2, e000052	4.5	12
2	Dynamic recruitment of microRNAs to their mRNA targets in the regenerating liver. <i>BMC Genomics</i> , <b>2013</b> , 14, 264	4.5	52
1	Genome-wide alteration of histone H3K9 acetylation pattern in mouse offspring prenatally exposed to arsenic. <i>PLoS ONE</i> , <b>2013</b> , 8, e53478	3.7	70