Jacob E Corn

List of Publications by Year in Descending Order

48 papers	5,385 citations	27 h-index	56 g-index
56 ext. papers	7,048 ext. citations	15.3 avg, IF	5.63 L-index

#	Paper	IF	Citations
48	Identification of novel HPFH-like mutations by CRISPR base editing that elevate the expression of fetal hemoglobin.. *ELife*, **2022**, 11,	8.9	3
47	PnB Designer: a web application to design prime and base editor guide RNAs for animals and plants. *BMC Bioinformatics*, **2021**, 22, 101	3.6	15
46	Suppression of unwanted CRISPR-Cas9 editing by co-administration of catalytically inactivating truncated guide RNAs. *Nature Communications*, **2020**, 11, 2697	17.4	19
45	A Genome-wide ER-phagy Screen Highlights Key Roles of Mitochondrial Metabolism and ER-Resident UFMylation. *Cell*, **2020**, 180, 1160-1177.e20	56.2	58
44	The Histone Chaperone FACT Induces Cas9 Multi-turnover Behavior and Modifies Genome Manipulation in Human Cells. *Molecular Cell*, **2020**, 79, 221-233.e5	17.6	12
43	Timed inhibition of CDC7 increases CRISPR-Cas9 mediated templated repair. *Nature Communications*, **2020**, 11, 2109	17.4	34
42	Controlled Cycling and Quiescence Enables Efficient HDR in Engraftment-Enriched Adult Hematopoietic Stem and Progenitor Cells. *Cell Reports*, **2020**, 32, 108093	10.6	22
41	CRISPR off-target detection with DISCOVER-seq. *Nature Protocols*, **2020**, 15, 1775-1799	18.8	26
40	Unbiased detection of CRISPR off-targets in vivo using DISCOVER-Seq. *Science*, **2019**, 364, 286-289	33.3	180
39	The CUL5 ubiquitin ligase complex mediates resistance to CDK9 and MCL1 inhibitors in lung cancer cells. *ELife*, **2019**, 8,	8.9	11
38	Advances in genome editing through control of DNA repair pathways. *Nature Cell Biology*, **2019**, 21, 1468-1478	3.4	146
37	BARD1 is necessary for ubiquitylation of nucleosomal histone H2A and for transcriptional regulation of estrogen metabolism genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1316-1321	11.5	27
36	CRISPR-Cas9 genome editing in human cells occurs via the Fanconi anemia pathway. *Nature Genetics*, **2018**, 50, 1132-1139	36.3	126
35	In vitro-transcribed guide RNAs trigger an innate immune response via the RIG-I pathway. *PLoS Biology*, **2018**, 16, e2005840	9.7	50
34	Sometimes you're the scooper, and sometimes you get scooped: How to turn both into something good. *PLoS Biology*, **2018**, 16, e2006843	9.7	3
33	Atlastins remodel the endoplasmic reticulum for selective autophagy. *Journal of Cell Biology*, **2018**, 217, 3354-3367	7.3	65
32	Nanoparticle delivery of Cas9 ribonucleoprotein and donor DNA induces homology-directed DNA repair. *Nature Biomedical Engineering*, **2017**, 1, 889-901	19	404

31	E Pluribus Unum ("Out of Many, One"): CRISPR Modeling of Myeloid Expansion. *Cell Stem Cell*, **2017**, 21, 415-416	18	
30	Enhancer connectome in primary human cells identifies target genes of disease-associated DNA elements. *Nature Genetics*, **2017**, 49, 1602-1612	36.3	253
29	Synthetically modified guide RNA and donor DNA are a versatile platform for CRISPR-Cas9 engineering. *ELife*, **2017**, 6,	8.9	93
28	Disabling Cas9 by an anti-CRISPR DNA mimic. *Science Advances*, **2017**, 3, e1701620	14.3	216
27	Enhancing homology-directed genome editing by catalytically active and inactive CRISPR-Cas9 using asymmetric donor DNA. *Nature Biotechnology*, **2016**, 34, 339-44	44.5	658
26	Compact and highly active next-generation libraries for CRISPR-mediated gene repression and activation. *ELife*, **2016**, 5,	8.9	343
25	Co-opting CRISPR to deliver functional RNAs. *Nature Methods*, **2015**, 12, 613-4	21.6	4
24	CRISPR germline engineering--the community speaks. *Nature Biotechnology*, **2015**, 33, 478-86	44.5	91
23	Using protein motion to read, write, and erase ubiquitin signals. *Journal of Biological Chemistry*, **2015**, 290, 26437-44	5.4	4
22	USP30 and parkin homeostatically regulate atypical ubiquitin chains on mitochondria. *Nature Cell Biology*, **2015**, 17, 160-9	23.4	186
21	Ubiquitin in inflammation: the right linkage makes all the difference. *Nature Structural and Molecular Biology*, **2014**, 21, 297-300	17.6	43
20	Decoding a chain letter for degradation. *Structure*, **2013**, 21, 1068-70	5.2	
19	Conformational stabilization of ubiquitin yields potent and selective inhibitors of USP7. *Nature Chemical Biology*, **2013**, 9, 51-8	11.7	72
18	The RosettaCon 2012 Special Collection: Code Writ on Water, Documentation Writ in Stone. *PLoS ONE*, **2013**, 8, e73775	3.7	1
17	Binding mechanism of metal?NTP substrates and stringent-response alarmones to bacterial DnaG-type primases. *Structure*, **2012**, 20, 1478-89	5.2	58
16	ROSETTA3: an object-oriented software suite for the simulation and design of macromolecules. *Methods in Enzymology*, **2011**, 487, 545-74	1.7	1216
15	A de novo protein binding pair by computational design and directed evolution. *Molecular Cell*, **2011**, 42, 250-60	17.6	141
14	Hotspot-centric de novo design of protein binders. *Journal of Molecular Biology*, **2011**, 413, 1047-62	6.5	32

13	RosettaScripts: a scripting language interface to the Rosetta macromolecular modeling suite. *PLoS ONE*, **2011**, 6, e20161	3.7	311
12	Recognition of UbcH5c and the nucleosome by the Bmi1/Ring1b ubiquitin ligase complex. *EMBO Journal*, **2011**, 30, 3285-97	13	105
11	THAP proteins target specific DNA sites through bipartite recognition of adjacent major and minor grooves. *Nature Structural and Molecular Biology*, **2010**, 17, 117-23	17.6	54
10	Automated electron-density sampling reveals widespread conformational polymorphism in proteins. *Protein Science*, **2010**, 19, 1420-31	6.3	112
9	Rosetta in CAPRI rounds 13-19. *Proteins: Structure, Function and Bioinformatics*, **2010**, 78, 3212-8	4.2	17
8	Bioactive TGF-beta can associate with lipoproteins and is enriched in those containing apolipoprotein E3. *Journal of Neurochemistry*, **2009**, 110, 1254-62	6	9
7	Identification of a DNA primase template tracking site redefines the geometry of primer synthesis. *Nature Structural and Molecular Biology*, **2008**, 15, 163-9	17.6	43
6	FASTDXL: a generalized screen to trap disulfide-stabilized complexes for use in structural studies. *Structure*, **2007**, 15, 773-80	5.2	13
5	Crosstalk between primase subunits can act to regulate primer synthesis in trans. *Molecular Cell*, **2005**, 20, 391-401	17.6	85
4	Disabling Cas9 by an anti-CRISPR DNA mimic		6
3	CRISPR-Cas9 genome editing in human cells works via the Fanconi Anemia pathway		14
2	ATF4 mediates fetal globin upregulation in response to reduced β-globin		1
1	Timed inhibition of CDC7 increases CRISPR-Cas9 mediated templated repair		2