

Charles A Whittaker

List of Publications by Year in descending order

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55
papers

7,341
citations

117625

34
h-index

149698

56
g-index

62
all docs

62
docs citations

62
times ranked

13176
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable, methanol-free manufacturing of the SARS-CoV-2 receptor-binding domain in engineered <i>Komagataella phaffii</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 657-662.	3.3	17
2	Agrin Loss in Barrett's Esophagus-Related Neoplasia and Its Utility as a Diagnostic and Predictive Biomarker. <i>Clinical Cancer Research</i> , 2022, 28, 1167-1179.	7.0	2
3	Machine-learning aided in situ drug sensitivity screening predicts treatment outcomes in ovarian PDX tumors. <i>Translational Oncology</i> , 2022, 21, 101427.	3.7	1
4	Identification of a long non-coding RNA regulator of liver carcinoma cell survival. <i>Cell Death and Disease</i> , 2021, 12, 178.	6.3	4
5	<i>RAD21</i> is a driver of chromosome 8 gain in Ewing sarcoma to mitigate replication stress. <i>Genes and Development</i> , 2021, 35, 556-572.	5.9	28
6	Molecular engineering improves antigen quality and enables integrated manufacturing of a trivalent subunit vaccine candidate for rotavirus. <i>Microbial Cell Factories</i> , 2021, 20, 94.	4.0	8
7	Engineered SARS-CoV-2 receptor binding domain improves manufacturability in yeast and immunogenicity in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	68
8	Expansion of the CD4+ effector T-cell repertoire characterizes peanut-allergic patients with heightened clinical sensitivity. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 270-282.	2.9	39
9	Comparative genome-scale analysis of <i>Pichia pastoris</i> variants informs selection of an optimal base strain. <i>Biotechnology and Bioengineering</i> , 2020, 117, 543-555.	3.3	34
10	In Vivo RNAi-Mediated eIF3m Knockdown Affects Ribosome Biogenesis and Transcription but Has Limited Impact on mRNA-Specific Translation. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 252-266.	5.1	14
11	Host-Informed Expression of CRISPR Guide RNA for Genomic Engineering in <i>Komagataella phaffii</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 26-35.	3.8	40
12	Identification and local delivery of vasodilators for the reduction of ureteral contractions. <i>Nature Biomedical Engineering</i> , 2020, 4, 28-39.	22.5	6
13	Identifying Improved Sites for Heterologous Gene Integration Using ATAC-seq. <i>ACS Synthetic Biology</i> , 2020, 9, 2515-2524.	3.8	13
14	The environmental stress response causes ribosome loss in aneuploid yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17031-17040.	7.1	28
15	Aneuploidy drives lethal progression in prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11390-11395.	7.1	101
16	SIRT1 deacetylase in aging-induced neuromuscular degeneration and amyotrophic lateral sclerosis. <i>Aging Cell</i> , 2018, 17, e12839.	6.7	36
17	XBP1s activation can globally remodel N-glycan structure distribution patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10089-E10098.	7.1	41
18	Destabilized adaptive influenza variants critical for innate immune system escape are potentiated by host chaperones. <i>PLoS Biology</i> , 2018, 16, e3000008.	5.6	28

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19	Comprehensive proteomic characterization of stem cell-derived extracellular matrices. <i>Biomaterials</i> , 2017, 128, 147-159.	11.4	132
20	Comparative genomics and transcriptomics of <i>Pichia pastoris</i> . <i>BMC Genomics</i> , 2016, 17, 550.	2.8	72
21	The extracellular matrix: Tools and insights for the "omics" era. <i>Matrix Biology</i> , 2016, 49, 10-24.	3.6	793
22	Foxa2 and Cdx2 cooperate with Nkx2-1 to inhibit lung adenocarcinoma metastasis. <i>Genes and Development</i> , 2015, 29, 1850-1862.	5.9	87
23	Single cell sequencing reveals low levels of aneuploidy across mammalian tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13409-13414.	7.1	261
24	Extracellular matrix signatures of human primary metastatic colon cancers and their metastases to liver. <i>BMC Cancer</i> , 2014, 14, 518.	2.6	204
25	Nkx2-1 Represses a Latent Gastric Differentiation Program in Lung Adenocarcinoma. <i>Molecular Cell</i> , 2013, 50, 185-199.	9.7	215
26	Differential <i>Tks5</i> isoform expression contributes to metastatic invasion of lung adenocarcinoma. <i>Genes and Development</i> , 2013, 27, 1557-1567.	5.9	62
27	Comparative Oncogenomic Analysis of Copy Number Alterations in Human and Zebrafish Tumors Enables Cancer Driver Discovery. <i>PLoS Genetics</i> , 2013, 9, e1003734.	3.5	30
28	Let-7 represses <i>Nr6a1</i> and a mid-gestation developmental program in adult fibroblasts. <i>Genes and Development</i> , 2013, 27, 941-954.	5.9	44
29	Nuclear factor I/B is an oncogene in small cell lung cancer. <i>Genes and Development</i> , 2011, 25, 1470-1475.	5.9	142
30	Suppression of lung adenocarcinoma progression by Nkx2-1. <i>Nature</i> , 2011, 473, 101-104.	27.8	383
31	Chronic Activation of Wild-Type Epidermal Growth Factor Receptor and Loss of Cdkn2a Cause Mouse Glioblastoma Formation. <i>Cancer Research</i> , 2011, 71, 7198-7206.	0.9	30
32	Conservation and divergence of ADAM family proteins in the <i>Xenopus</i> genome. <i>BMC Evolutionary Biology</i> , 2010, 10, 211.	3.2	19
33	Stage-specific sensitivity to p53 restoration during lung cancer progression. <i>Nature</i> , 2010, 468, 572-575.	27.8	255
34	Gene Expression Analysis of Macrophages That Facilitate Tumor Invasion Supports a Role for Wnt-Signaling in Mediating Their Activity in Primary Mammary Tumors. <i>Journal of Immunology</i> , 2010, 184, 702-712.	0.8	208
35	Chronic cisplatin treatment promotes enhanced damage repair and tumor progression in a mouse model of lung cancer. <i>Genes and Development</i> , 2010, 24, 837-852.	5.9	174
36	Endothelial $\alpha 5$ and αv integrins cooperate in remodeling of the vasculature during development. <i>Development (Cambridge)</i> , 2010, 137, 2439-2449.	2.5	141

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37	Highly aneuploid zebrafish malignant peripheral nerve sheath tumors have genetic alterations similar to human cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16940-16945.	7.1	34
38	Identification of Aneuploidy-Tolerating Mutations. <i>Cell</i> , 2010, 143, 71-83.	28.9	352
39	Aneuploidy Affects Proliferation and Spontaneous Immortalization in Mammalian Cells. <i>Science</i> , 2008, 322, 703-709.	12.6	534
40	Genomic predictors of interindividual differences in response to DNA damaging agents. <i>Genes and Development</i> , 2008, 22, 2621-2626.	5.9	59
41	Loss of p53 synthesis in zebrafish tumors with ribosomal protein gene mutations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10408-10413.	7.1	124
42	Protein 4.1B suppresses prostate cancer progression and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12784-12789.	7.1	63
43	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i> . <i>Science</i> , 2006, 314, 941-952.	12.6	1,018
44	The echinoderm adhesome. <i>Developmental Biology</i> , 2006, 300, 252-266.	2.0	158
45	DNA sequence and analysis of human chromosome 8. <i>Nature</i> , 2006, 439, 331-335.	27.8	115
46	Analysis of the DNA sequence and duplication history of human chromosome 15. <i>Nature</i> , 2006, 440, 671-675.	27.8	67
47	DNA sequence of human chromosome 17 and analysis of rearrangement in the human lineage. <i>Nature</i> , 2006, 440, 1045-1049.	27.8	130
48	DNA sequence and analysis of human chromosome 18. <i>Nature</i> , 2005, 437, 551-555.	27.8	53
49	Distribution and Evolution of von Willebrand/Integrin A Domains: Widely Dispersed Domains with Roles in Cell Adhesion and Elsewhere. <i>Molecular Biology of the Cell</i> , 2002, 13, 3369-3387.	2.1	621
50	In Vivo Roles of Integrins During Leukocyte Development and Traffic: Insights from the Analysis of Mice Chimeric for $\beta 5$, βv , and $\beta 4$ Integrins. <i>Journal of Immunology</i> , 2000, 165, 4667-4675.	0.8	78
51	Molecular Cloning and Developmental Expression of the <i>Xenopus</i> Homolog of Integrin $\alpha 4a$. <i>Annals of the New York Academy of Sciences</i> , 1998, 857, 56-73.	3.8	9
52	Thrombospondins in early <i>Xenopus</i> embryos: Dynamic patterns of expression suggest diverse roles in nervous system, notochord, and muscle development. , 1998, 211, 390-407.		27
53	Cloning and characterization of cDNAs encoding the integrin $\beta 2$ and $\beta 3$ subunits from <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , 1997, 67, 141-155.	1.7	11
54	Integrin βv Subunit Is Expressed on Mesodermal Cell Surfaces during Amphibian Gastrulation. <i>Developmental Biology</i> , 1995, 170, 249-261.	2.0	36

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55	Integrin $\alpha 5$ during early development of <i>Xenopus laevis</i> . <i>Mechanisms of Development</i> , 1995, 50, 187-199.	1.7	58