

David Casero

List of Publications by Year in descending order

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79
papers

8,165
citations

76326

40
h-index

110387

64
g-index

82
all docs

82
docs citations

82
times ranked

12729
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-omics of the gut microbial ecosystem in inflammatory bowel diseases. <i>Nature</i> , 2019, 569, 655-662.	27.8	1,638
2	Relationship between nucleosome positioning and DNA methylation. <i>Nature</i> , 2010, 466, 388-392.	27.8	625
3	Three Acyltransferases and Nitrogen-responsive Regulator Are Implicated in Nitrogen Starvation-induced Triacylglycerol Accumulation in <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 15811-15825.	3.4	379
4	Limiting Cholesterol Biosynthetic Flux Spontaneously Engages Type I IFN Signaling. <i>Cell</i> , 2015, 163, 1716-1729.	28.9	322
5	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. <i>Plant Cell</i> , 2014, 26, 1410-1435.	6.6	314
6	Transcriptome Sequencing Identifies <i>SPL7</i> -Regulated Copper Acquisition Genes <i>FRO4</i> and <i>FRO5</i> and the Copper Dependence of Iron Homeostasis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2012, 24, 738-761.	6.6	286
7	A revised mineral nutrient supplement increases biomass and growth rate in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2011, 66, 770-780.	5.7	282
8	RNA-Seq Analysis of Sulfur-Deprived <i>Chlamydomonas</i> Cells Reveals Aspects of Acclimation Critical for Cell Survival. <i>Plant Cell</i> , 2010, 22, 2058-2084.	6.6	253
9	Systems Biology Approach in <i>Chlamydomonas</i> Reveals Connections between Copper Nutrition and Multiple Metabolic Steps. <i>Plant Cell</i> , 2011, 23, 1273-1292.	6.6	204
10	Transcriptome-Wide Changes in <i>Chlamydomonas reinhardtii</i> Gene Expression Regulated by Carbon Dioxide and the CO ₂ -Concentrating Mechanism Regulator <i>CIA5</i> and <i>CCM1</i> . <i>Plant Cell</i> , 2012, 24, 1876-1893.	6.6	180
11	Long non-coding RNA profiling of human lymphoid progenitor cells reveals transcriptional divergence of B cell and T cell lineages. <i>Nature Immunology</i> , 2015, 16, 1282-1291.	14.5	178
12	Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a <i>Chlamydomonas reinhardtii</i> Starchless Mutant. <i>Plant Cell</i> , 2013, 25, 4305-4323.	6.6	176
13	Feedback modulation of cholesterol metabolism by the lipid-responsive non-coding RNA <i>LeXis</i> . <i>Nature</i> , 2016, 534, 124-128.	27.8	175
14	Transcriptional regulation of macrophage cholesterol efflux and atherogenesis by a long noncoding RNA. <i>Nature Medicine</i> , 2018, 24, 304-312.	30.7	171
15	Reporting guidelines for human microbiome research: the STORMS checklist. <i>Nature Medicine</i> , 2021, 27, 1885-1892.	30.7	170
16	Evolution of an Expanded Sex-Determining Locus in <i>Volvox</i> . <i>Science</i> , 2010, 328, 351-354.	12.6	159
17	The Path to Triacylglyceride Obesity in the <i>sta6</i> Strain of <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2014, 13, 591-613.	3.4	143
18	Systems and Trans-System Level Analysis Identifies Conserved Iron Deficiency Responses in the Plant Lineage. <i>Plant Cell</i> , 2012, 24, 3921-3948.	6.6	142

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19	Organoid-Induced Differentiation of Conventional T Cells from Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2019, 24, 376-389.e8.	11.1	142
20	Conditional Depletion of the <i>Chlamydomonas</i> Chloroplast ClpP Protease Activates Nuclear Genes Involved in Autophagy and Plastid Protein Quality Control. <i>Plant Cell</i> , 2014, 26, 2201-2222.	6.6	122
21	Proximal colon-derived O-glycosylated mucus encapsulates and modulates the microbiota. <i>Science</i> , 2020, 370, 467-472.	12.6	122
22	Activation of the Carbon Concentrating Mechanism by CO ₂ Deprivation Coincides with Massive Transcriptional Restructuring in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2012, 24, 1860-1875.	6.6	121
23	The lncRNA CASC15 regulates SOX4 expression in RUNX1-rearranged acute leukemia. <i>Molecular Cancer</i> , 2017, 16, 126.	19.2	108
24	Retrograde bilin signaling enables <i>Chlamydomonas</i> greening and phototrophic survival. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3621-3626.	7.1	107
25	A large-scale zebrafish gene knockout resource for the genome-wide study of gene function. <i>Genome Research</i> , 2013, 23, 727-735.	5.5	105
26	<i>SINGLET OXYGEN RESISTANT 1</i> links reactive electrophile signaling to singlet oxygen acclimation in <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1302-11.	7.1	95
27	Impact of Oxidative Stress on Ascorbate Biosynthesis in <i>Chlamydomonas</i> via Regulation of the VTC2 Gene Encoding a GDP-l-galactose Phosphorylase. <i>Journal of Biological Chemistry</i> , 2012, 287, 14234-14245.	3.4	93
28	The Proteome of Copper, Iron, Zinc, and Manganese Micronutrient Deficiency in <i>Chlamydomonas reinhardtii</i> . <i>Molecular and Cellular Proteomics</i> , 2013, 12, 65-86.	3.8	85
29	Algal Functional Annotation Tool: a web-based analysis suite to functionally interpret large gene lists using integrated annotation and expression data. <i>BMC Bioinformatics</i> , 2011, 12, 282.	2.6	84
30	lncRNA Expression Discriminates Karyotype and Predicts Survival in B-Lymphoblastic Leukemia. <i>Molecular Cancer Research</i> , 2015, 13, 839-851.	3.4	81
31	Space-type radiation induces multimodal responses in the mouse gut microbiome and metabolome. <i>Microbiome</i> , 2017, 5, 105.	11.1	81
32	Remodeling of Membrane Lipids in Iron-starved <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 30246-30258.	3.4	77
33	COPPER RESPONSE REGULATOR1-Dependent and -Independent Responses of the <i>Chlamydomonas reinhardtii</i> Transcriptome to Dark Anoxia. <i>Plant Cell</i> , 2013, 25, 3186-3211.	6.6	77
34	Plasma Cells Are Obligate Effectors of Enhanced Myelopoiesis in Aging Bone Marrow. <i>Immunity</i> , 2019, 51, 351-366.e6.	14.3	76
35	Zinc Deficiency Impacts CO ₂ Assimilation and Disrupts Copper Homeostasis in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 10672-10683.	3.4	72
36	Distinct Genetic Networks Orchestrate the Emergence of Specific Waves of Fetal and Adult B-1 and B-2 Development. <i>Immunity</i> , 2016, 45, 527-539.	14.3	64

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37	Hypoxic survival requires a 2-on-2 hemoglobin in a process involving nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10854-10859.	7.1	63
38	The T-ALL related gene BCL11B regulates the initial stages of human T-cell differentiation. Leukemia, 2017, 31, 2503-2514.	7.2	55
39	Lymphoid-Biased Hematopoietic Stem Cells Are Maintained with Age and Efficiently Generate Lymphoid Progeny. Stem Cell Reports, 2019, 12, 584-596.	4.8	45
40	Altered Intestinal ACE2 Levels Are Associated With Inflammation, Severe Disease, and Response to Anti-Cytokine Therapy in Inflammatory Bowel Disease. Gastroenterology, 2021, 160, 809-822.e7.	1.3	45
41	Phosphoprotein SAK1 is a regulator of acclimation to singlet oxygen in Chlamydomonas reinhardtii. ELife, 2014, 3, e02286.	6.0	45
42	A screen of Crohn's disease-associated microbial metabolites identifies ascorbate as a novel metabolic inhibitor of activated human T cells. Mucosal Immunology, 2019, 12, 457-467.	6.0	44
43	MicroRNA-146a modulates B-cell oncogenesis by regulating Egr1. Oncotarget, 2015, 6, 11023-11037.	1.8	39
44	Insights into the mechanism of cell death induced by saporin delivered into cancer cells by an antibody fusion protein targeting the transferrin receptor 1. Toxicology in Vitro, 2013, 27, 220-231.	2.4	32
45	Epithelial membrane protein 2 (<scp>EMP2</scp>) deficiency alters placental angiogenesis, mimicking features of human placental insufficiency. Journal of Pathology, 2017, 242, 246-259.	4.5	25
46	Transcriptional regulation of N6-methyladenosine orchestrates sex-dimorphic metabolic traits. Nature Metabolism, 2021, 3, 940-953.	11.9	24
47	Fractal analysis and tumour growth. Mathematical and Computer Modelling, 2008, 47, 546-559.	2.0	22
48	Convergent BCL6 and lncRNA promoters demarcate the major breakpoint region for BCL6 translocations. Blood, 2015, 126, 1730-1731.	1.4	22
49	Lethal iron deprivation induced by non-neutralizing antibodies targeting transferrin receptor 1 in malignant B cells. Leukemia and Lymphoma, 2011, 52, 2169-2178.	1.3	20
50	In Vitro Recapitulation of Murine Thymopoiesis from Single Hematopoietic Stem Cells. Cell Reports, 2020, 33, 108320.	6.4	20
51	Transcriptionally and Functionally Distinct Mesenchymal Subpopulations Are Generated from Human Pluripotent Stem Cells. Stem Cell Reports, 2018, 10, 436-446.	4.8	19
52	The effect of pressure on the growth of tumour cell colonies. Journal of Theoretical Biology, 2006, 243, 171-180.	1.7	18
53	Epithelial Membrane Protein 2 (EMP2) Promotes VEGF-Induced Pathological Neovascularization in Murine Oxygen-Induced Retinopathy. , 2020, 61, 3.		16
54	The Placental Transcriptome in Late Gestational Hypoxia Resulting in Murine Intrauterine Growth Restriction Parallels Increased Risk of Adult Cardiometabolic Disease. Scientific Reports, 2019, 9, 1243.	3.3	13

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55	The Metabolic Landscape of Thymic T Cell Development In Vivo and In Vitro. <i>Frontiers in Immunology</i> , 2021, 12, 716661.	4.8	13
56	Differential Expression of PU.1 and Key T Lineage Transcription Factors Distinguishes Fetal and Adult T Cell Development. <i>Journal of Immunology</i> , 2018, 200, 2046-2056.	0.8	11
57	Integrative analysis reveals multiple modes of LXR transcriptional regulation in liver. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	11
58	Genetic Tagging During Human Mesoderm Differentiation Reveals Tripotent Lateral Plate Mesodermal Progenitors. <i>Stem Cells</i> , 2016, 34, 1239-1250.	3.2	10
59	Focused CRISPR-Cas9 genetic screening reveals USO1 as a vulnerability in B-cell acute lymphoblastic leukemia. <i>Scientific Reports</i> , 2021, 11, 13158.	3.3	10
60	Development of a Personalized Intestinal Fibrosis Model Using Human Intestinal Organoids Derived From Induced Pluripotent Stem Cells. <i>Inflammatory Bowel Diseases</i> , 2022, 28, 667-679.	1.9	9
61	Anomalous scaling of multivalued interfaces. <i>Europhysics Letters</i> , 2003, 64, 620-626.	2.0	7
62	Human pediatric B-cell acute lymphoblastic leukemias can be classified as B-1 or B-2-like based on a minimal transcriptional signature. <i>Experimental Hematology</i> , 2020, 90, 65-71.e1.	0.4	7
63	The Expansion of Thymopoiesis in Neonatal Mice Is Dependent on Expression of High Mobility Group A 2 Protein (Hmga2). <i>PLoS ONE</i> , 2015, 10, e0125414.	2.5	5
64	Position-dependent expression of GADD45 β in rat brain tumours. <i>Medical Oncology</i> , 2007, 24, 436-444.	2.5	3
65	Pleiotropic Roles of VEGF in the Microenvironment of the Developing Thymus. <i>Journal of Immunology</i> , 2020, 205, 2423-2436.	0.8	2
66	3203 Deletion of p53 in hematopoietic progenitors leads to Notch1 dependent T-Acute Lymphoblastic Leukemia. <i>European Journal of Cancer</i> , 2015, 51, S649-S650.	2.8	0
67	565 Upregulation of Gut Bitter Taste Receptor Subtypes, T2R138 and T2R16, in High Fat Diet-Induced Obesity Is Reversed Following Antibiotic Treatment. <i>Gastroenterology</i> , 2016, 150, S119-S120.	1.3	0
68	Does IGF2BP1 (insulin like growth factor 2 binding protein 1) drive ETV6-RUNX1 positive B-acute lymphoblastic leukemia?. <i>European Journal of Cancer</i> , 2017, 72, S99.	2.8	0
69	Notch Signaling Regulates the Differentiation of CLEC9A+ Dendritic Cells (cDC1) From Human and Mouse Hematopoietic Stem/Progenitor Cells. <i>Experimental Hematology</i> , 2018, 64, S102.	0.4	0
70	1100 - Dynamics of the Microbial Metaproteome in Inflammatory Bowel Disease. <i>Gastroenterology</i> , 2018, 154, S-217.	1.3	0
71	Directed Differentiation of Conventional T Cells From Human Pluripotent Stem Cells in an Artificial Organoid System. <i>Experimental Hematology</i> , 2018, 64, S51.	0.4	0
72	VEGF Affects Postnatal Thymic Development Through Distinct Receptor Pathways. <i>Experimental Hematology</i> , 2018, 64, S57.	0.4	0

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73	677 RELATING INDIVIDUAL HUMAN INTESTINAL MICROBIAL COMMUNITY STATES BY ECOLOGIC SUCCESSION. Gastroenterology, 2021, 160, S-133.	1.3	0
74	Identification of Novel Mir-34a Targets in a c-Myc Murine Model. Blood, 2015, 126, 4826-4826.	1.4	0
75	Genetic Subtypes of Human Pediatric ALLs Show Gene Expression Differences That Parallel Those Observed in Mouse B1 and B2 Progenitors, Suggesting Divergent Developmental Origins. Blood, 2016, 128, 1741-1741.	1.4	0
76	Molecular Characterization of Long Non-Coding RNA CASC15 in Leukemogenesis. Blood, 2016, 128, 5103-5103.	1.4	0
77	BCL11B Is a Key Regulator of T-Lineage Differentiation during the Initial Stages of Human Thymopoiesis. Blood, 2016, 128, 2657-2657.	1.4	0
78	Su1988 ENVIRONMENTAL EFFECT OF RESOLVED HUMAN CMV INFECTION AND NK RECEPTOR GENETICS IN PEDIATRIC CROHN'S DISEASE SUSCEPTIBILITY AND PHENOTYPE.. Gastroenterology, 2020, 158, S-735.	1.3	0
79	3040 " IN VITRO RECAPITULATION OF MURINE T CELL DEVELOPMENT FROM SINGLE HEMATOPOIETIC STEM CELLS. Experimental Hematology, 2020, 88, S51.	0.4	0