Charles Auffray

List of Publications by Year
in descending order

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70 papers	5,851 citations	117625 34 h-index	79698 73 g-index
175 all docs	175 docs citations	175 times ranked	9546 citing authors

#	Article	IF	Citations
1	DNA Methylation in Newborns and Maternal Smoking in Pregnancy: Genome-wide Consortium Meta-analysis. American Journal of Human Genetics, 2016, 98, 680-696.	6.2	717
2	Clinical and inflammatory characteristics of the European U-BIOPRED adult severe asthma cohort. European Respiratory Journal, 2015, 46, 1308-1321.	6.7	434
3	Systems medicine: the future of medical genomics and healthcare. Genome Medicine, 2009, 1, 2.	8.2	333
4	U-BIOPRED clinical adult asthma clusters linked to a subset of sputum omics. Journal of Allergy and Clinical Immunology, 2017, 139, 1797-1807.	2.9	236
5	Application of â€™omics technologies to biomarker discovery in inflammatory lung diseases. European Respiratory Journal, 2013, 42, 802-825.	6.7	234
6	Revolutionizing medicine in the 21st century through systems approaches. Biotechnology Journal, 2012, 7, 992-1001.	3.5	225
7	Making sense of big data in health research: Towards an EU action plan. Genome Medicine, 2016, 8, 71.	8.2	190
8	The P4 Health Spectrum â€“ A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Cardiovascular Diseases, 2017, 59, 506-521.	3.1	178
9	DNA methylation in childhood asthma: an epigenome-wide meta-analysis. Lancet Respiratory Medicine,the, 2018, 6, 379-388.	10.7	170
10	Sputum transcriptomics reveal upregulation of IL-1 receptor family members in patients with severe asthma. Journal of Allergy and Clinical Immunology, 2018, 141, 560-570.	2.9	166
11	A Transcriptome-driven Analysis of Epithelial Brushings and Bronchial Biopsies to Define Asthma Phenotypes in U-BIOPRED. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 443-455.	5.6	165
12	A Severe Asthma Disease Signature from Gene Expression Profiling of Peripheral Blood from U-BIOPRED Cohorts. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1311-1320.	5.6	152
13	Mechanisms of the Development of Allergy (MeDALL): Introducing novel concepts in allergy phenotypes. Journal of Allergy and Clinical Immunology, 2017, 139, 388-399.	2.9	145
14	Predictive, preventive, personalized and participatory medicine: back to the future. Genome Medicine, 2010, 2, 57.	8.2	144
15	Participatory medicine: a driving force for revolutionizing healthcare. Genome Medicine, 2013, 5, 110.	8.2	137
16	An Integrative Systems Biology Approach to Understanding Pulmonary Diseases. Chest, 2010, 137, 1410-1416.	0.8	135
17	Genome-Wide Interaction Analysis of Air Pollution Exposure and Childhood Asthma with Functional Follow-up. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1373-1383.	5.6	107
18	Pathway discovery using transcriptomic profiles in adult-onset severe asthma. Journal of Allergy and Clinical Immunology, 2018, 141, 1280-1290.	2.9	105

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19	â€œT2-highâ€•in severe asthma related to blood eosinophil, exhaled nitric oxide andÂserum periostin. European Respiratory Journal, 2019, 53, 1800938.	6.7	104
20	From functional genomics to systems biology: concepts and practices. Comptes Rendus - Biologies, 2003, 326, 879-892.	0.2	103
21	COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. Scientific Data, 2020, 7, 136.	5.3	99
22	Systems medicine disease maps: community-driven comprehensive representation of disease mechanisms. Npj Systems Biology and Applications, 2018, 4, 21.	3.0	84
23	IL-17â€“high asthma with features of a psoriasis immunophenotype. Journal of Allergy and Clinical Immunology, 2019, 144, 1198-1213.	2.9	80
24	The road from systems biology to systems medicine. Pediatric Research, 2013, 73, 502-507.	2.3	78
25	Enabling multiscale modeling in systems medicine. Genome Medicine, 2014, 6, 21.	8.2	76
26	Scale relativity theory and integrative systems biology: 1. Progress in Biophysics and Molecular Biology, 2008, 97, 79-114.	2.9	75
27	Representing and querying disease networks using graph databases. BioData Mining, 2016, 9, 23.	4.0	75
28	Exposure to Traffic-Related Air Pollution and Serum Inflammatory Cytokines in Children. Environmental Health Perspectives, 2017, 125, 067007.	6.0	71
29	Stratification of asthma phenotypes by airway proteomic signatures. Journal of Allergy and Clinical Immunology, 2019, 144, 70-82.	2.9	59
30	Scale relativity theory and integrative systems biology: 2 Macroscopic quantum-type mechanics. Progress in Biophysics and Molecular Biology, 2008, 97, 115-157.	2.9	56
31	COVID19 Disease Map, a computational knowledge repository of virusâ€“host interaction mechanisms. Molecular Systems Biology, 2021, 17, e10387.	7.2	53
32	The Genexpress IMAGE Knowledge Base of the Human Brain Transcriptome: A Prototype Integrated Resource for Functional and Computational Genomics. Genome Research, 1999, 9, 195-209.	5.5	52
33	Community-driven roadmap for integrated disease maps. Briefings in Bioinformatics, 2019, 20, 659-670.	6.5	48
34	Towards a European health research and innovation cloud (HRIC). Genome Medicine, 2020, 12, 18.	8.2	46
35	Transcriptomic gene signatures associated with persistent airflow limitation in patients with severe asthma. European Respiratory Journal, 2017, 50, 1602298.	6.7	44
36	A computational framework for complex disease stratification from multiple large-scale datasets. BMC Systems Biology, 2018, 12, 60.	3.0	43

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37	Blood eosinophil count and airway epithelial transcriptome relationships in COPD versus asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 370-380.	5.7	37
38	P4 Medicine Needs P4 Education. Current Pharmaceutical Design, 2014, 20, 6071-6072.	1.9	37
39	Origins of Systems Biology in William Harveyâ€™s Masterpiece on the Movement of the Heart and the Blood in Animals. International Journal of Molecular Sciences, 2009, 10, 1658-1669.	4.1	33
40	Computational analysis of multimorbidity between asthma, eczema and rhinitis. PLoS ONE, 2017, 12, e0179125.	2.5	33
41	From genomic medicine to precision medicine: highlights of 2015. Genome Medicine, 2016, 8, 12.	8.2	32
42	Contribution of airway eosinophils in airway wall remodeling in asthma: Role of <scp>MMP</scp>â€10 and <scp>MET</scp>. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 1102-1112.	5.7	32
43	Longitudinally Stable, Clinically Defined Clusters of Patients with Asthma Independently Identified in the ADEPT and U-BIOPRED Asthma Studies. Annals of the American Thoracic Society, 2016, 13, S102-S103.	3.2	30
44	Selfâ€“organized living systems: conjunction of a stable organization with chaotic fluctuations in biological spaceâ€“time. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1125-1139.	3.4	29
45	Systems Medicine: The Future of Medical Genomics, Healthcare, and Wellness. Methods in Molecular Biology, 2016, 1386, 43-60.	0.9	29
46	Editorial: Systems biology and personalized medicine â€“ the future is now. Biotechnology Journal, 2012, 7, 938-939.	3.5	28
47	Recon2Neo4j: applying graph database technologies for managing comprehensive genome-scale networks. Bioinformatics, 2017, 33, 1096-1098.	4.1	25
48	Newt: a comprehensive web-based tool for viewing, constructing and analyzing biological maps. Bioinformatics, 2021, 37, 1475-1477.	4.1	24
49	AsthmaMap: An expertâ€driven computational representation of disease mechanisms. Clinical and Experimental Allergy, 2018, 48, 916-918.	2.9	21
50	Prediction of chronic lung allograft dysfunction: a systems medicine challenge. European Respiratory Journal, 2014, 43, 689-693.	6.7	20
51	STON: exploring biological pathways using the SBGN standard and graph databases. BMC Bioinformatics, 2016, 17, 494.	2.6	19
52	Introducing PIONEER: a project to harness big data in prostate cancer research. Nature Reviews Urology, 2020, 17, 351-362.	3.8	18
53	EpiGeNet: A Graph Database of Interdependencies Between Genetic and Epigenetic Events in Colorectal Cancer. Journal of Computational Biology, 2017, 24, 969-980.	1.6	16
54	Epithelial dysregulation in obese severe asthmatics with gastro-oesophageal reflux. European Respiratory Journal, 2019, 53, 1900453.	6.7	15

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55	Instability of sputum molecular phenotypes in U-BIOPRED severe asthma. European Respiratory Journal, 2021, 57, 2001836.	6.7	13
56	Ten years of Genome Medicine. Genome Medicine, 2019, 11, 7.	8.2	11
57	Progress in integrative systems biology, physiology and medicine: towards a scale-relative biology. European Physical Journal A, 2020, 56, 1.	2.5	11
58	Looking back at genomic medicine in 2011. Genome Medicine, 2012, 4, 9.	8.2	10
59	Sharing knowledge: a new frontier for public-private partnerships in medicine. Genome Medicine, 2009, 1, 29.	8.2	8
60	Human-like layout algorithms for signalling hypergraphs: outlining requirements. Briefings in Bioinformatics, 2018, , .	6.5	8
61	2012 highlights in translational 'omics. Genome Medicine, 2013, 5, 10.	8.2	7
62	Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y), 2017, 2, e006.	0.7	6
63	AsthmaMap: An interactive knowledge repository for mechanisms of asthma. Journal of Allergy and Clinical Immunology, 2021, 147, 853-856.	2.9	6
64	The Key Role of Patient Involvement in the Development of Core Outcome Sets in Prostate Cancer. European Urology Focus, 2021, 7, 943-946.	3.1	6
65	Foreword: from the Transcriptome conferences to the Systemoscope International Consortium. Comptes Rendus - Biologies, 2003, 326, 867-875.	0.2	3
66	COVID-19 and beyond:Âa call for action andÂaudacious solidarity to all the citizens and nations,Âit is humanityâ€™s fight. F1000Research, 0, 9, 1130.	1.6	3
67	Interview with a Thought Leader on Systems Medicineâ€"Charles Auffray, PhD. Systems Medicine (New) Tj ETQq1 1 0.784314 rgBT /Ov	1.1	2
68	Computational Infrastructures for Data and Knowledge Management in Systems Biology. , 2013, , 377-397.		2
69	A multi-omics data integration approach to identify a predictive molecular signature of CLAD. , 2015, , .		2
70	Informing epidemic (research) responses in a timely fashion by knowledge management - a Zika virus use case. Biology Open, 2020, 9, .	1.2	1