

# Robert A Hirst

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,388  
citations

147801

31  
h-index

182427

51  
g-index

54  
all docs

54  
docs citations

54  
times ranked

4484  
citing authors

#	ARTICLE	IF	CITATIONS
1	European Respiratory Society guidelines for the diagnosis of primary ciliary dyskinesia. European Respiratory Journal, 2017, 49, 1601090.	6.7	465
2	Mutations in Radial Spoke Head Protein Genes RSPH9 and RSPH4A Cause Primary Ciliary Dyskinesia with Central-Microtubular-Pair Abnormalities. American Journal of Human Genetics, 2009, 84, 197-209.	6.2	303
3	MCIDAS mutations result in a mucociliary clearance disorder with reduced generation of multiple motile cilia. Nature Communications, 2014, 5, 4418.	12.8	221
4	The role of pneumolysin in pneumococcal pneumonia and meningitis. Clinical and Experimental Immunology, 2004, 138, 195-201.	2.6	179
5	Ciliary dysfunction and ultrastructural abnormalities are features of severe asthma. Journal of Allergy and Clinical Immunology, 2010, 126, 722-729.e2.	2.9	156
6	Centriolar satellites are assembly points for proteins implicated in human ciliopathies, including oral-facial-digital syndrome 1. Journal of Cell Science, 2011, 124, 600-612.	2.0	153
7	Respiratory Syncytial Virus Increases the Virulence of <i>Streptococcus pneumoniae</i> by Binding to Penicillin Binding Protein 1a. A New Paradigm in Respiratory Infection. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 196-207.	5.6	115
8	<i>Streptococcus pneumoniae</i> Deficient in Pneumolysin or Autolysin Has Reduced Virulence in Meningitis. Journal of Infectious Diseases, 2008, 197, 744-751.	4.0	97
9	Mutations in Outer Dynein Arm Heavy Chain DNAH9 Cause Motile Cilia Defects and Situs Inversus. American Journal of Human Genetics, 2018, 103, 984-994.	6.2	95
10	Ciliated Air-Liquid Cultures as an Aid to Diagnostic Testing of Primary Ciliary Dyskinesia. Chest, 2010, 138, 1441-1447.	0.8	94
11	Culture of Primary Ciliary Dyskinesia Epithelial Cells at Air-Liquid Interface Can Alter Ciliary Phenotype but Remains a Robust and Informative Diagnostic Aid. PLoS ONE, 2014, 9, e89675.	2.5	94
12	Hypoxia upregulates neutrophil degranulation and potential for tissue injury. Thorax, 2016, 71, 1030-1038.	5.6	90
13	Relative Roles of Pneumolysin and Hydrogen Peroxide from <i>Streptococcus pneumoniae</i> in Inhibition of Ependymal Ciliary Beat Frequency. Infection and Immunity, 2000, 68, 1557-1562.	2.2	89
14	<i>Pseudomonas aeruginosa</i> -Catecholamine Inotropic Interactions. Chest, 2012, 142, 1200-1210.	0.8	84
15	Targeted NGS gene panel identifies mutations in RSPH1 causing primary ciliary dyskinesia and a common mechanism for ciliary central pair agenesis due to radial spoke defects. Human Molecular Genetics, 2014, 23, 3362-3374.	2.9	82
16	Ciliary dyskinesia is an early feature of respiratory syncytial virus infection. European Respiratory Journal, 2014, 43, 485-496.	6.7	81
17	International consensus guideline for reporting transmission electron microscopy results in the diagnosis of primary ciliary dyskinesia (BEAT PCD TEM Criteria). European Respiratory Journal, 2020, 55, 1900725.	6.7	77
18	ciliaFA: a research tool for automated, high-throughput measurement of ciliary beat frequency using freely available software. Cilia, 2012, 1, 14.	1.8	76

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19	High prevalence of <i>CCDC103</i> p.His154Pro mutation causing primary ciliary dyskinesia disrupts protein oligomerisation and is associated with normal diagnostic investigations. <i>Thorax</i> , 2018, 73, 157-166.	5.6	63
20	Sensitivities of Human Monocytes and Epithelial Cells to Pneumolysin Are Different. <i>Infection and Immunity</i> , 2002, 70, 1017-1022.	2.2	55
21	Risk factors for situs defects and congenital heart disease in primary ciliary dyskinesia. <i>Thorax</i> , 2019, 74, 203-205.	5.6	52
22	Clinical utility of NGS diagnosis and disease stratification in a multiethnic primary ciliary dyskinesia cohort. <i>Journal of Medical Genetics</i> , 2020, 57, 322-330.	3.2	50
23	Biallelic Mutations in <i>LRRC56</i> , Encoding a Protein Associated with Intraflagellar Transport, Cause Mucociliary Clearance and Laterality Defects. <i>American Journal of Human Genetics</i> , 2018, 103, 727-739.	6.2	49
24	<i>NADPH Oxidase-4</i> Overexpression Is Associated With Epithelial Ciliary Dysfunction in Neutrophilic Asthma. <i>Chest</i> , 2016, 149, 1445-1459.	0.8	43
25	Cooling of Cilia Allows Functional Analysis of the Beat Pattern for Diagnostic Testing. <i>Chest</i> , 2011, 140, 186-190.	0.8	41
26	BMI-1 extends proliferative potential of human bronchial epithelial cells while retaining their mucociliary differentiation capacity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L258-L267.	2.9	40
27	Role of Toll-Like Receptors 2 and 4 in Pulmonary Inflammation and Injury Induced by Pneumolysin in Mice. <i>PLoS ONE</i> , 2009, 4, e7993.	2.5	39
28	<i>Streptococcus pneumoniae</i> Damages the Ciliated Ependyma of the Brain during Meningitis. <i>Infection and Immunity</i> , 2003, 71, 6095-6100.	2.2	38
29	Histone Deacetylase Inhibition Attenuates Cell Growth with Associated Telomerase Inhibition in High-Grade Childhood Brain Tumor Cells. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 2568-2581.	4.1	34
30	Effect of Pneumolysin on Rat Brain Ciliary Function: Comparison of Brain Slices with Cultured Ependymal Cells. <i>Pediatric Research</i> , 2000, 47, 381-384.	2.3	33
31	Elevated Anandamide and Related N-Acylethanolamine Levels Occur in the Peripheral Blood of Women With Ectopic Pregnancy and Are Mirrored by Changes in Peripheral Fatty Acid Amide Hydrolase Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 1226-1234.	3.6	32
32	Adenylyl cyclase in SH-SY5Y human neuroblastoma cells is regulated by intra- and extracellular calcium. <i>Biochemical Pharmacology</i> , 1995, 49, 1633-1640.	4.4	29
33	Characterisation of the rat cerebella CB1 receptor using SR141716A, a central cannabinoid receptor antagonist. <i>Neuroscience Letters</i> , 1996, 220, 101-104.	2.1	26
34	<i>Streptococcus pneumoniae</i> -Induced Inhibition of Rat Ependymal Cilia Is Attenuated by Antipneumolysin Antibody. <i>Infection and Immunity</i> , 2004, 72, 6694-6698.	2.2	24
35	A Revised Protocol for Culture of Airway Epithelial Cells as a Diagnostic Tool for Primary Ciliary Dyskinesia. <i>Journal of Clinical Medicine</i> , 2020, 9, 3753.	2.4	21
36	RHPS4 G-Quadruplex Ligand Induces Anti-Proliferative Effects in Brain Tumor Cells. <i>PLoS ONE</i> , 2014, 9, e86187.	2.5	21

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37	Intracerebroventricular antisense knockdown of GÎ±i2 results in ciliary stasis and ventricular dilatation in the rat. BMC Neuroscience, 2007, 8, 26.	1.9	17
38	Hydrogen peroxide at a concentration used during neurosurgery disrupts ciliary function and causes extensive damage to the ciliated ependyma of the brain. Child's Nervous System, 2009, 25, 559-561.	1.1	15
39	Ciliated Cultures From Patients With Primary Ciliary Dyskinesia Do Not Produce Nitric Oxide or Inducible Nitric Oxide Synthase During Early Infection. Chest, 2013, 144, 1671-1676.	0.8	15
40	The effect of viscous loading on brain ependymal cilia. Neuroscience Letters, 2008, 439, 56-60.	2.1	14
41	Higher throughput drug screening for rare respiratory diseases: Readthrough therapy in primary ciliary dyskinesia. European Respiratory Journal, 2021, 58, 2000455.	6.7	13
42	The Controversies and Difficulties of Diagnosing Primary Ciliary Dyskinesia. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 120-122.	5.6	12
43	Persistent disruption of ciliated epithelium following paediatric lung transplantation. European Respiratory Journal, 2012, 40, 1245-1252.	6.7	10
44	The Behaviour of Both Listeria monocytogenes and Rat Ciliated Ependymal Cells Is Altered during Their Co-Culture. PLoS ONE, 2010, 5, e10450.	2.5	7
45	Exploring the Art of Ciliary Beating. Chest, 2017, 152, 1348-1349.	0.8	7
46	Ciliated conical epithelial cell protrusions point towards a diagnosis of primary ciliary dyskinesia. Respiratory Research, 2018, 19, 125.	3.6	7
47	Ciliopathy genes are required for apical secretion of Cochlin, an otolith crystallization factor. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2102562118.	7.1	4
48	Response. Chest, 2019, 156, 1033-1034.	0.8	3
49	In Replay: Ciliated Cultures From Patients With Primary Ciliary Dyskinesia Produce Nitric Oxide in Response to Haemophilus influenzae Infection and Proinflammatory Cytokines. Chest, 2014, 145, 669.	0.8	2
50	Ciliary Beat Pattern Analysis Below 37Â°C May Increase Risk of Primary Ciliary Dyskinesia Misdiagnosis: Response. Chest, 2012, 142, 544-545.	0.8	0