

# Philippe Delmotte

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

1,507  
citations

331670

21  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutations in <i>Hydin</i> impair ciliary motility in mice. <i>Journal of Cell Biology</i> , 2008, 180, 633-643.	5.2	236
2	Human airway mucin glycosylation: a combinatorial of carbohydrate determinants which vary in cystic fibrosis. <i>Glycoconjugate Journal</i> , 2001, 18, 661-684.	2.7	153
3	Cigarette smoke-induced mitochondrial fragmentation and dysfunction in human airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L840-L854.	2.9	150
4	Tumor Necrosis Factor $\alpha$ Increases the Expression of Glycosyltransferases and Sulfotransferases Responsible for the Biosynthesis of Sialylated and/or Sulfated Lewis x Epitopes in the Human Bronchial Mucosa. <i>Journal of Biological Chemistry</i> , 2002, 277, 424-431.	3.4	117
5	Regulation of Airway Smooth Muscle Cell Contractility by $Ca^{2+}$ Signaling and Sensitivity. <i>Proceedings of the American Thoracic Society</i> , 2008, 5, 23-31.	3.5	101
6	Recognition of Lewis x Derivatives Present on Mucins by Flagellar Components of <i>Pseudomonas aeruginosa</i> . <i>Infection and Immunity</i> , 2001, 69, 5243-5248.	2.2	97
7	Ciliary Beat Frequency Is Maintained at a Maximal Rate in the Small Airways of Mouse Lung Slices. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2006, 35, 110-117.	2.9	93
8	Human Airway Contraction and Formoterol-Induced Relaxation Is Determined by $Ca^{2+}$ Oscillations and $Ca^{2+}$ Sensitivity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010, 43, 179-191.	2.9	53
9	Inflammation alters regional mitochondrial $Ca^{2+}$ in human airway smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C244-C256.	4.6	53
10	Endoplasmic Reticulum Stress and Mitochondrial Function in Airway Smooth Muscle. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 374.	3.7	38
11	Interaction between endoplasmic/sarcoplasmic reticulum stress (ER/SR stress), mitochondrial signaling and $Ca^{2+}$ regulation in airway smooth muscle (ASM). <i>Canadian Journal of Physiology and Pharmacology</i> , 2015, 93, 97-110.	1.4	36
12	Influence of TNF $\alpha$ on the sialylation of mucins produced by a transformed cell line MM-39 derived from human tracheal gland cells. <i>Glycoconjugate Journal</i> , 2001, 18, 487-497.	2.7	31
13	Extramyocellular interleukin-6 influences skeletal muscle mitochondrial physiology through canonical JAK/STAT signaling pathways. <i>FASEB Journal</i> , 2020, 34, 14458-14472.	0.5	30
14	Sialyl-Le(x) and sulfo-sialyl-Le(x) determinants are receptors for <i>P. aeruginosa</i> . <i>Glycoconjugate Journal</i> , 2000, 17, 735-740.	2.7	29
15	Effects of Formoterol on Contraction and $Ca^{2+}$ Signaling of Mouse Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010, 42, 373-381.	2.9	28
16	Effects of Albuterol Isomers on the Contraction and $Ca^{2+}$ Signaling of Small Airways in Mouse Lung Slices. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 38, 524-531.	2.9	27
17	Effects of the Inflammatory Cytokines TNF- $\alpha$ and IL-13 on Stromal Interaction Molecule-1 Aggregation in Human Airway Smooth Muscle Intracellular $Ca^{2+}$ Regulation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 601-608.	2.9	27
18	TNF- $\alpha$ enhances force generation in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L994-L1002.	2.9	26

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19	TNF $\alpha$ decreases mitochondrial movement in human airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L166-L176.	2.9	25
20	TNF $\alpha$ selectively activates the IRE1 $\alpha$ /XBP1 endoplasmic reticulum stress pathway in human airway smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L483-L493.	2.9	24
21	TNF $\alpha$ induces mitochondrial fragmentation and biogenesis in human airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 320, L137-L151.	2.9	24
22	Mechanisms of airway smooth muscle relaxation induced by beta2-adrenergic agonists. Frontiers in Bioscience - Landmark, 2010, 15, 750.	3.0	23
23	Sulfated oligosaccharides isolated from the respiratory mucins of a secretor patient suffering from chronic bronchitis. Biochimie, 2003, 85, 369-379.	2.6	22
24	Mechanisms underlying TNF $\alpha$ -induced enhancement of force generation in airway smooth muscle. Physiological Reports, 2019, 7, e14220.	1.7	17
25	1 $\alpha$ ,25-dihydroxyvitamin D3 mitigates cancer cell mediated mitochondrial dysfunction in human skeletal muscle cells. Biochemical and Biophysical Research Communications, 2018, 496, 746-752.	2.1	16
26	Inflammation-Induced Protein Unfolding in Airway Smooth Muscle Triggers a Homeostatic Response in Mitochondria. International Journal of Molecular Sciences, 2021, 22, 363.	4.1	14
27	Influence of culture conditions on the $\alpha$ 1,2-fucosyltransferase and MUC gene expression of a transformed cell line MM-39 derived from human tracheal gland cells. Biochimie, 2001, 83, 749-755.	2.6	7
28	Cytoskeletal remodeling slows cross-bridge cycling and ATP hydrolysis rates in airway smooth muscle. Physiological Reports, 2020, 8, e14561.	1.7	4
29	Mitochondrial Excitation-Energy Coupling in Airway Smooth Muscle. Respiratory Medicine, 2014, , 93-116.	0.1	3
30	The Role of Mitochondria in Calcium Regulation in Airway Smooth Muscle. , 2014, , 211-234.		3
31	Effects of TNF $\alpha$ on Dynamic Cytosolic Ca <sup>2+</sup> and Force Responses to Muscarinic Stimulation in Airway Smooth Muscle. Frontiers in Physiology, 2021, 12, 730333.	2.8	0