

# Jean-Luc Desseyn

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	1,344 citations	21 h-index	36 g-index
50 ext. papers	1,540 ext. citations	5 avg, IF	4.3 L-index

#	Paper	IF	Citations
45	Human mucin gene MUC5B, the 10.7-kb large central exon encodes various alternate subdomains resulting in a super-repeat. Structural evidence for a 11p15.5 gene family. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 3168-78	5.4	122
44	Evolution of the large secreted gel-forming mucins. <i>Molecular Biology and Evolution</i> , <b>2000</b> , 17, 1175-84	8.3	114
43	Genomic organization of the 3Yregion of the human mucin gene MUC5B. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 16873-83	5.4	91
42	Assembly of the respiratory mucin MUC5B: a new model for a gel-forming mucin. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 16409-20	5.4	64
41	Genomic organization of the human mucin gene MUC5B. cDNA and genomic sequences upstream of the large central exon. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 30157-64	5.4	59
40	Architecture of the large membrane-bound mucins. <i>Gene</i> , <b>2008</b> , 410, 215-22	3.8	58
39	Evolutionary history of the 11p15 human mucin gene family. <i>Journal of Molecular Evolution</i> , <b>1998</b> , 46, 102-6	3.1	56
38	Genomic organization of the 3Yregion of the human MUC5AC mucin gene: additional evidence for a common ancestral gene for the 11p15.5 mucin gene family. <i>Biochemical Journal</i> , <b>1998</b> , 332 ( Pt 3), 729-38	3.8	55
37	Gel-forming mucin interactome drives mucus viscoelasticity. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 252, 69-82	14.3	47
36	Modulation of host defence against bacterial and viral infections by omega-3 polyunsaturated fatty acids. <i>Journal of Infection</i> , <b>2016</b> , 73, 523-535	18.9	47
35	Dietary (n-3) polyunsaturated fatty acids affect the kinetics of pro- and antiinflammatory responses in mice with <i>Pseudomonas aeruginosa</i> lung infection. <i>Journal of Nutrition</i> , <b>2009</b> , 139, 82-9	4.1	46
34	The mucin MUC4 and its membrane partner ErbB2 regulate biological properties of human CAPAN-2 pancreatic cancer cells via different signalling pathways. <i>PLoS ONE</i> , <b>2012</b> , 7, e32232	3.7	44
33	Dietary pectin-derived acidic oligosaccharides improve the pulmonary bacterial clearance of <i>Pseudomonas aeruginosa</i> lung infection in mice by modulating intestinal microbiota and immunity. <i>Journal of Infectious Diseases</i> , <b>2015</b> , 211, 156-65	7	35
32	A lipoxygenase with dual positional specificity is expressed in olives ( <i>Olea europaea</i> L.) during ripening. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2009</b> , 1791, 339-46	5	34
31	MUC5B leads to aggressive behavior of breast cancer MCF7 cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e46699	3.7	34
30	Omega-3 polyunsaturated fatty acids improve host response in chronic <i>Pseudomonas aeruginosa</i> lung infection in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 292, L1422-31	5.8	33
29	Delivery of a mucin domain enriched in cysteine residues strengthens the intestinal mucous barrier. <i>Scientific Reports</i> , <b>2015</b> , 5, 9577	4.9	32

28	Mucin CYS domains are ancient and highly conserved modules that evolved in concert. <i>Molecular Phylogenetics and Evolution</i> , <b>2009</b> , 52, 284-92	4.1	31
27	The extraordinarily complex but highly structured organization of intestinal mucus-gel unveiled in multicolor images. <i>PLoS ONE</i> , <b>2011</b> , 6, e18761	3.7	28
26	Characterization of mouse muc6 and evidence of conservation of the gel-forming mucin gene cluster between human and mouse. <i>Genomics</i> , <b>2003</b> , 81, 433-6	4.3	27
25	Cloning, chromosomal localization and characterization of the murine mucin gene orthologous to human MUC4. <i>FEBS Journal</i> , <b>2002</b> , 269, 3150-9		23
24	Dietary n-3 fatty acids have suppressive effects on mucin upregulation in mice infected with <i>Pseudomonas aeruginosa</i> . <i>Respiratory Research</i> , <b>2007</b> , 8, 39	7.3	21
23	(n-3) long-chain PUFA differentially affect resistance to <i>Pseudomonas aeruginosa</i> infection of male and female cftr-/- mice. <i>Journal of Nutrition</i> , <b>2011</b> , 141, 1101-7	4.1	20
22	In vivo imaging of the Muc5b gel-forming mucin. <i>Scientific Reports</i> , <b>2017</b> , 7, 44591	4.9	19
21	The characterization of the first anti-mouse Muc6 antibody shows an increased expression of the mucin in pancreatic tissue of Cftr-knockout mice. <i>Histochemistry and Cell Biology</i> , <b>2010</b> , 133, 517-25	2.4	19
20	The Cervicovaginal Mucus Barrier. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	18
19	Impact and consequences of intensive chemotherapy on intestinal barrier and microbiota in acute myeloid leukemia: the role of mucosal strengthening. <i>Gut Microbes</i> , <b>2020</b> , 12, 1800897	8.8	17
18	Early-life origin of intestinal inflammatory disorders. <i>Nutrition Reviews</i> , <b>2017</b> , 75, 175-187	6.4	16
17	Impact of fish oils on the outcomes of a mouse model of acute <i>Pseudomonas aeruginosa</i> pulmonary infection. <i>British Journal of Nutrition</i> , <b>2015</b> , 113, 191-9	3.6	16
16	Ocular mucins in dry eye disease. <i>Experimental Eye Research</i> , <b>2019</b> , 186, 107724	3.7	14
15	Pectin-Derived Acidic Oligosaccharides Improve the Outcome of <i>Pseudomonas aeruginosa</i> Lung Infection in C57BL/6 Mice. <i>PLoS ONE</i> , <b>2015</b> , 10, e0139686	3.7	14
14	Abnormal expression of Muc5b in Cftr-null mice and in mammary tumors of MMTV-ras mice. <i>Histochemistry and Cell Biology</i> , <b>2011</b> , 136, 699-708	2.4	12
13	Preclinical mouse model to monitor live Muc5b-producing conjunctival goblet cell density under pharmacological treatments. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174764	3.7	11
12	Biological modeling of mucus to modulate mucus barriers. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, G225-7	5.1	9
11	Fifty-nine bp repeat polymorphism in the uncommon intron 36 of the human mucin gene MUC5B. <i>Electrophoresis</i> , <b>1999</b> , 20, 493-6	3.6	9

10	Non-C-mannosylable mucin CYS domains hindered proper folding and secretion of mucin. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 506, 812-818	3.4	9
9	Muc5b is mainly expressed and sialylated in the nasal olfactory epithelium whereas Muc5ac is exclusively expressed and fucosylated in the nasal respiratory epithelium. <i>Histochemistry and Cell Biology</i> , <b>2019</b> , 152, 167-174	2.4	7
8	Long-term dietary (n-3) polyunsaturated fatty acids show benefits to the lungs of Cftr F508del mice. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197808	3.7	7
7	Muc5b-deficient mice develop early histological lung abnormalities. <i>Biology Open</i> , <b>2019</b> , 8,	2.2	7
6	Mucin CYS domain stiffens the mucus gel hindering bacteria and spermatozoa. <i>Scientific Reports</i> , <b>2019</b> , 9, 16993	4.9	7
5	Importance of the Phospholipid Core for Mucin Hydrogel Penetration and Mucosal Cell Uptake of Maltodextrin Nanoparticles.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 5741-5749	4.1	4
4	Early life nutrition influences susceptibility to chronic inflammatory colitis in later life. <i>Scientific Reports</i> , <b>2019</b> , 9, 18111	4.9	4
3	Transgenic Mouse Reporter to Study Muc5b In Vivo. <i>Annals of the American Thoracic Society</i> , <b>2018</b> , 15, S149-S153	4.7	3
2	Muc5b-deficient mice develop early histological lung abnormalities		1
1	Long Chain Polyunsaturated Fatty Acids: Immunomodulators in Disease <b>2010</b> , 155-172		