Jean-Luc Desseyn

List of Publications by Year in Descending Order

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	The Cervicovaginal Mucus Barrier. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	18
44	Importance of the Phospholipid Core for Mucin Hydrogel Penetration and Mucosal Cell Uptake of Maltodextrin Nanoparticles.. *ACS Applied Bio Materials*, **2020**, 3, 5741-5749	4.1	4
43	Impact and consequences of intensive chemotherapy on intestinal barrier and microbiota in acute myeloid leukemia: the role of mucosal strengthening. *Gut Microbes*, **2020**, 12, 1800897	8.8	17
42	Muc5b is mainly expressed and sialylated in the nasal olfactory epithelium whereas Muc5ac is exclusively expressed and fucosylated in the nasal respiratory epithelium. *Histochemistry and Cell Biology*, **2019**, 152, 167-174	2.4	7
41	Ocular mucins in dry eye disease. *Experimental Eye Research*, **2019**, 186, 107724	3.7	14
40	Muc5b-deficient mice develop early histological lung abnormalities. *Biology Open*, **2019**, 8,	2.2	7
39	Mucin CYS domain stiffens the mucus gel hindering bacteria and spermatozoa. *Scientific Reports*, **2019**, 9, 16993	4.9	7
38	Early life nutrition influences susceptibility to chronic inflammatory colitis in later life. *Scientific Reports*, **2019**, 9, 18111	4.9	4
37	Gel-forming mucin interactome drives mucus viscoelasticity. *Advances in Colloid and Interface Science*, **2018**, 252, 69-82	14.3	47
36	Long-term dietary (n-3) polyunsaturated fatty acids show benefits to the lungs of Cftr F508del mice. *PLoS ONE*, **2018**, 13, e0197808	3.7	7
35	Transgenic Mouse Reporter to Study Muc5b In Vivo. *Annals of the American Thoracic Society*, **2018**, 15, S149-S153	4.7	3
34	Non-C-mannosylable mucin CYS domains hindered proper folding and secretion of mucin. *Biochemical and Biophysical Research Communications*, **2018**, 506, 812-818	3.4	9
33	Early-life origin of intestinal inflammatory disorders. *Nutrition Reviews*, **2017**, 75, 175-187	6.4	16
32	In vivo imaging of the Muc5b gel-forming mucin. *Scientific Reports*, **2017**, 7, 44591	4.9	19
31	Preclinical mouse model to monitor live Muc5b-producing conjunctival goblet cell density under pharmacological treatments. *PLoS ONE*, **2017**, 12, e0174764	3.7	11
30	Modulation of host defence against bacterial and viral infections by omega-3 polyunsaturated fatty acids. *Journal of Infection*, **2016**, 73, 523-535	18.9	47
29	Biological modeling of mucus to modulate mucus barriers. *American Journal of Physiology - Renal Physiology*, **2016**, 310, G225-7	5.1	9

28	Dietary pectin-derived acidic oligosaccharides improve the pulmonary bacterial clearance of Pseudomonas aeruginosa lung infection in mice by modulating intestinal microbiota and immunity. *Journal of Infectious Diseases*, **2015**, 211, 156-65	7	35
27	Delivery of a mucin domain enriched in cysteine residues strengthens the intestinal mucous barrier. *Scientific Reports*, **2015**, 5, 9577	4.9	32
26	Pectin-Derived Acidic Oligosaccharides Improve the Outcome of Pseudomonas aeruginosa Lung Infection in C57BL/6 Mice. *PLoS ONE*, **2015**, 10, e0139686	3.7	14
25	Impact of fish oils on the outcomes of a mouse model of acute Pseudomonas aeruginosa pulmonary infection. *British Journal of Nutrition*, **2015**, 113, 191-9	3.6	16
24	Assembly of the respiratory mucin MUC5B: a new model for a gel-forming mucin. *Journal of Biological Chemistry*, **2014**, 289, 16409-20	5.4	64
23	The mucin MUC4 and its membrane partner ErbB2 regulate biological properties of human CAPAN-2 pancreatic cancer cells via different signalling pathways. *PLoS ONE*, **2012**, 7, e32232	3.7	44
22	MUC5B leads to aggressive behavior of breast cancer MCF7 cells. *PLoS ONE*, **2012**, 7, e46699	3.7	34
21	The extraordinarily complex but highly structured organization of intestinal mucus-gel unveiled in multicolor images. *PLoS ONE*, **2011**, 6, e18761	3.7	28
20	Abnormal expression of Muc5b in Cftr-null mice and in mammary tumors of MMTV-ras mice. *Histochemistry and Cell Biology*, **2011**, 136, 699-708	2.4	12
19	(n-3) long-chain PUFA differentially affect resistance to Pseudomonas aeruginosa infection of male and female cftr-/- mice. *Journal of Nutrition*, **2011**, 141, 1101-7	4.1	20
18	The characterization of the first anti-mouse Muc6 antibody shows an increased expression of the mucin in pancreatic tissue of Cftr-knockout mice. *Histochemistry and Cell Biology*, **2010**, 133, 517-25	2.4	19
17	Long Chain Polyunsaturated Fatty Acids: Immunomodulators in Disease **2010**, 155-172		
16	Dietary (n-3) polyunsaturated fatty acids affect the kinetics of pro- and antiinflammatory responses in mice with Pseudomonas aeruginosa lung infection. *Journal of Nutrition*, **2009**, 139, 82-9	4.1	46
15	Mucin CYS domains are ancient and highly conserved modules that evolved in concert. *Molecular Phylogenetics and Evolution*, **2009**, 52, 284-92	4.1	31
14	A lipoxygenase with dual positional specificity is expressed in olives (Olea europaea L.) during ripening. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 339-46	5	34
13	Architecture of the large membrane-bound mucins. *Gene*, **2008**, 410, 215-22	3.8	58
12	Dietary n-3 fatty acids have suppressive effects on mucin upregulation in mice infected with Pseudomonas aeruginosa. *Respiratory Research*, **2007**, 8, 39	7.3	21
11	Omega-3 polyunsaturated fatty acids improve host response in chronic Pseudomonas aeruginosa lung infection in mice. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2007**, 292, L1422-31	5.8	33

10	Characterization of mouse muc6 and evidence of conservation of the gel-forming mucin gene cluster between human and mouse. *Genomics*, **2003**, 81, 433-6	4.3	27
9	Cloning, chromosomal localization and characterization of the murine mucin gene orthologous to human MUC4. *FEBS Journal*, **2002**, 269, 3150-9		23
8	Evolution of the large secreted gel-forming mucins. *Molecular Biology and Evolution*, **2000**, 17, 1175-84	8.3	114
7	Fifty-nine bp repeat polymorphism in the uncommon intron 36 of the human mucin gene MUC5B. *Electrophoresis*, **1999**, 20, 493-6	3.6	9
6	Evolutionary history of the 11p15 human mucin gene family. *Journal of Molecular Evolution*, **1998**, 46, 102-6	3.1	56
5	Genomic organization of the human mucin gene MUC5B. cDNA and genomic sequences upstream of the large central exon. *Journal of Biological Chemistry*, **1998**, 273, 30157-64	5.4	59
4	Genomic organization of the 3Ŷregion of the human MUC5AC mucin gene: additional evidence for a common ancestral gene for the 11p15.5 mucin gene family. *Biochemical Journal*, **1998**, 332 (Pt 3), 729-38	3.8	55
3	Genomic organization of the 3Ŷregion of the human mucin gene MUC5B. *Journal of Biological Chemistry*, **1997**, 272, 16873-83	5.4	91
2	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. *Journal of Biological Chemistry*, **1997**, 272, 3168-78	5.4	122
1	Muc5b-deficient mice develop early histological lung abnormalities		1