Tom Van Agtmael

List of Publications by Year
in descending order

22 papers	1,312 citations	566801 15 h-index	713013 21 g-index
24 all docs	24 docs citations	24 times ranked	1948 citing authors

#	Article	IF	Citations
1	COL4A1Mutations and Hereditary Angiopathy, Nephropathy, Aneurysms, and Muscle Cramps. New England Journal of Medicine, 2007, 357, 2687-2695.	13.9	305
2	Dominant mutations of Col4a1 result in basement membrane defects which lead to anterior segment dysgenesis and glomerulopathy. Human Molecular Genetics, 2005, 14, 3161-3168.	1.4	124
3	Basement membranes and human disease. Cell and Tissue Research, 2010, 339, 167-188.	1.5	118
4	Common variation in COL4A1/COL4A2 is associated with sporadic cerebral small vessel disease. Neurology, 2015, 84, 918-926.	1.5	106
5	Basement membrane stiffness determines metastases formation. Nature Materials, 2021, 20, 892-903.	13.3	94
6	Col4a1 mutation in mice causes defects in vascular function and low blood pressure associated with reduced red blood cell volume. Human Molecular Genetics, 2010, 19, 1119-1128.	1.4	75
7	Tendon Is Covered by a Basement Membrane Epithelium That Is Required for Cell Retention and the Prevention of Adhesion Formation. PLoS ONE, 2011, 6, e16337.	1.1	71
8	Disruption of a mi<scp>R</scp>â€29 binding site leading to <scp>COL4A1</scp> upregulation causes pontine autosomal dominant microangiopathy with leukoencephalopathy. Annals of Neurology, 2016, 80, 741-753.	2.8	61
9	Chemical chaperone treatment reduces intracellular accumulation of mutant collagen IV and ameliorates the cellular phenotype of a COL4A2 mutation that causes haemorrhagic stroke. Human Molecular Genetics, 2014, 23, 283-292.	1.4	60
10	Basement membrane collagens and disease mechanisms. Essays in Biochemistry, 2019, 63, 297-312.	2.1	59
11	Identification of an Altered Matrix Signature in Kidney Aging and Disease. Journal of the American Society of Nephrology: JASN, 2021, 32, 1713-1732.	3.0	45
12	ER stress and basement membrane defects combine to cause glomerular and tubular renal disease resulting from Col4a1 mutations in mice. DMM Disease Models and Mechanisms, 2016, 9, 165-176.	1.2	34
13	The Chemical Chaperone, PBA, Reduces ER Stress and Autophagy and Increases Collagen IV Î±5 Expression in Cultured Fibroblasts From Men With X-Linked Alport Syndrome and Missense Mutations. Kidney International Reports, 2017, 2, 739-748.	0.4	30
14	4-Sodium phenyl butyric acid has both efficacy and counter-indicative effects in the treatment of Col4a1 disease. Human Molecular Genetics, 2019, 28, 628-638.	1.4	22
15	Four decades in the making: Collagen III and mechanisms of vascular Ehlers Danlos Syndrome. Matrix Biology Plus, 2021, 12, 100090.	1.9	15
16	Global proteomic analysis of extracellular matrix in mouse and human brain highlights relevance to cerebrovascular disease. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2423-2438.	2.4	14
17	The role of basement membranes in cardiac biology and disease. Bioscience Reports, 2021, 41, .	1.1	13
18	Material-driven fibronectin assembly rescues matrix defects due to mutations in collagen IV in fibroblasts. Biomaterials, 2020, 252, 120090.	5.7	9

#	Article	IF	Citations
19	Rare Missense Functional Variants at COL4A1 and COL4A2 in Sporadic Intracerebral Hemorrhage. Neurology, 2021, 97, .	1.5	6
20	Biochemicalâ€•and Biophysicalâ€Induced Barriergenesis in the Bloodâ€“Brain Barrier: A Review of Barriergenic Factors for Use in In Vitro Models. Advanced NanoBiomed Research, 2021, 1, 2000068.	1.7	2
21	Collagen IV-Related Diseases and Therapies. Biology of Extracellular Matrix, 2021, , 143-197.	0.3	1
22	Editorial: Molecular Mechanisms of Heritable Connective Tissue Disorders. Frontiers in Genetics, 2022, 13, 866665.	1.1	0