# Dirk Hubmacher

List of Publications by Year
in descending order



| 43 | 1,796 | 279798 | 315739 |
|---|---|---|---|
| papers | citations | 23 h-index | 38 g-index |

| 50 | 50 | 50 | 2061 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fibrillin Assembly Requires Fibronectin. Molecular Biology of the Cell, 2009, 20, 846-858. | 2.1 | 210 |
| 2 | ADAMTS proteins as modulators of microfibril formation and function. Matrix Biology, 2015, 47, 34-43. | 3.6 | 130 |
| 3 | The biology of the extracellular matrix. Current Opinion in Rheumatology, 2013, 25, 65-70. | 4.3 | 113 |
| 4 | Fibrillin-1 Interactions with Fibulins Depend on the First Hybrid Domain and Provide an Adaptor Function to Tropoelastin. Journal of Biological Chemistry, 2007, 282, 8935-8946. | 3.4 | 100 |
| 5 | Fibrillins: From Biogenesis of Microfibrils to Signaling Functions. Current Topics in Developmental Biology, 2006, 75, 93-123. | 2.2 | 93 |
| 6 | Genetic and functional linkage between ADAMTS superfamily proteins and fibrillin-1: a novel mechanism influencing microfibril assembly and function. Cellular and Molecular Life Sciences, 2011, 68, 3137-3148. | 5.4 | 82 |
| 7 | Fibrillins, Fibulins, and Matrix-Associated Glycoprotein Modulate the Kinetics and Morphology of in Vitro Self-Assembly of a Recombinant Elastin-like Polypeptide. Biochemistry, 2008, 47, 12601-12613. | 2.5 | 74 |
| 8 | Biogenesis of extracellular microfibrils: Multimerization of the fibrillin-1 C terminus into bead-like structures enables self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6548-6553. | 7.1 | 74 |
| 9 | Tgfî² signaling is required for tenocyte recruitment and functional neonatal tendon regeneration. ELife, 2020, 9, . | 6.0 | 66 |
| 10 | Fibrillin-3 expression in human development. Matrix Biology, 2011, 30, 43-52. | 3.6 | 61 |
| 11 | Enhanced fibrillin-2 expression is a general feature of wound healing and sclerosis: potential alteration of cell attachment and storage of TGF-î². Laboratory Investigation, 2010, 90, 739-752. | 3.7 | 58 |
| 12 | Adamtsl2 deletion results in bronchial fibrillin microfibril accumulation and bronchial epithelial dysplasia â€“ a novel mouse model providing insights into geleophysic dysplasia. DMM Disease Models and Mechanisms, 2015, 8, 487-499. | 2.4 | 56 |
| 13 | Unusual life cycle and impact on microfibril assembly of ADAMTS17, a secreted metalloprotease mutated in genetic eye disease. Scientific Reports, 2017, 7, 41871. | 3.3 | 56 |
| 14 | Classical and Neonatal Marfan Syndrome Mutations in Fibrillin-1 Cause Differential Protease Susceptibilities and Protein Function. Journal of Biological Chemistry, 2011, 286, 32810-32823. | 3.4 | 45 |
| 15 | Nonselective Assembly of Fibrillin 1 and Fibrillin 2 in the Rodent Ocular Zonule and in Cultured Cells: Implications for Marfan Syndrome. , 2013, 54, 8337. | | 43 |
| 16 | Disruption of murineAdamtsl4results in zonular fiber detachment from the lens and in retinal pigment epithelium dedifferentiation. Human Molecular Genetics, 2015, 24, ddv399. | 2.9 | 41 |
| 17 | The â€œotherâ€•15â€“40%: The Role of Nonâ€Collagenous Extracellular Matrix Proteins and Minor Collagens in Tendon. Journal of Orthopaedic Research, 2020, 38, 23-35. | 2.3 | 41 |
| 18 | Functional Consequences of Homocysteinylation of the Elastic Fiber Proteins Fibrillin-1 and Tropoelastin. Journal of Biological Chemistry, 2010, 285, 1188-1198. | 3.4 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Regulation of ADAMTS Proteases. Frontiers in Molecular Biosciences, 2021, 8, 701959. | 3.5 | 39 |
| 20 | Heparin/heparan sulfate controls fibrillinâ€1, â€2 and â€3 selfâ€interactions in microfibril assembly. FEBS Letters, 2014, 588, 2890-2897. | 2.8 | 38 |
| 21 | A novel ADAMTS17 variant that causes Weill-Marchesani syndrome 4 alters fibrillin-1 and collagen type I deposition in the extracellular matrix. Matrix Biology, 2020, 88, 1-18. | 3.6 | 35 |
| 22 | Modification of the Structure and Function of Fibrillin-1 by Homocysteine Suggests a Potential Pathogenetic Mechanism in Homocystinuria. Journal of Biological Chemistry, 2005, 280, 34946-34955. | 3.4 | 34 |
| 23 | Human Eye Development Is Characterized by Coordinated Expression of Fibrillin Isoforms. Investigative Ophthalmology and Visual Science, 2014, 55, 7934-7944. | 3.3 | 33 |
| 24 | Homocysteine Modifies Structural and Functional Properties of Fibronectin and Interferes with the Fibronectinâ€“Fibrillin-1 Interaction. Biochemistry, 2011, 50, 5322-5332. | 2.5 | 29 |
| 25 | The ADAMTS/Fibrillin Connection: Insights into the Biological Functions of ADAMTS10 and ADAMTS17 and Their Respective Sister Proteases. Biomolecules, 2020, 10, 596. | 4.0 | 27 |
| 26 | Limb- and tendon-specific Adamtsl2 deletion identifies a role for ADAMTSL2 in tendon growth in a mouse model for geleophysic dysplasia. Matrix Biology, 2019, 82, 38-53. | 3.6 | 21 |
| 27 | Acromelic dysplasias: how rare musculoskeletal disorders reveal biological functions of extracellular matrix proteins. Annals of the New York Academy of Sciences, 2021, 1490, 57-76. | 3.8 | 20 |
| 28 | The extracellular matrix glycoprotein ADAMTSL2 is increased in heart failure and inhibits TGFÎ² signalling in cardiac fibroblasts. Scientific Reports, 2021, 11, 19757. | 3.3 | 20 |
| 29 | Early Fibrillin-1 Assembly Monitored through a Modifiable Recombinant Cell Approach. Biomacromolecules, 2014, 15, 1456-1468. | 5.4 | 17 |
| 30 | Interactions between lysyl oxidases and ADAMTS proteins suggest a novel crosstalk between two extracellular matrix families. Matrix Biology, 2019, 75-76, 114-125. | 3.6 | 17 |
| 31 | Disruption of the Extracellular Matrix Progressively Impairs Central Nervous System Vascular Maturation Downstream of Î²-Catenin Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, 1432-1447. | 2.4 | 14 |
| 32 | Iron-uptake in the Euryarchaeon Halobacterium salinarum. BioMetals, 2007, 20, 539-547. | 4.1 | 13 |
| 33 | A novel pathogenic missense ADAMTS17 variant that impairs secretion causes Weill-Marchesani Syndrome with variably dysmorphic hand features. Scientific Reports, 2020, 10, 10827. | 3.3 | 13 |
| 34 | Microfibrils and Fibrillin. , 2011, , 233-265. | | 12 |
| 35 | The quest for substrates and binding partners: A critical barrier for understanding the role of <scp>ADAMTS</scp> proteases in musculoskeletal development and disease. Developmental Dynamics, 2021, 250, 8-26. | 1.8 | 9 |
| 36 | Effects of Iron Limitation on the Respiratory Chain and the Membrane Cytochrome Pattern of the Euryarchaeon Halobacterium salinarum. Biological Chemistry, 2003, 384, 1565-73. | 2.5 | 8 |

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|---|---|---|---|
| 37 | Alternative splicing of the metalloprotease ADAMTS17 spacer regulates secretion and modulates autoproteolytic activity. FASEB Journal, 2021, 35, e21310. | 0.5 | 7 |
| 38 | One More Piece in the Fibrillin Puzzle. Structure, 2009, 17, 635-636. | 3.3 | 3 |
| 39 | Stable Knockdown of Genes Encoding Extracellular Matrix Proteins in the C2C12 Myoblast Cell Line Using Small-Hairpin (sh)RNA. Journal of Visualized Experiments, 2020, , . | 0.3 | 2 |
| 40 | Cell-Based Interaction Analysis of ADAMTS Proteases and ADAMTS-Like Proteins with Fibrillin Microfibrils. Methods in Molecular Biology, 2020, 2043, 195-206. | 0.9 | 1 |
| 41 | Pathology of the Elastic Matrix. , 2016, , 31-80. | | 1 |
| 42 | Mutations in fibrillinâ€1 leading to classical and neonatal Marfan syndrome cause differential protease susceptibilities and protein function. FASEB Journal, 2010, 24, 480.4. | 0.5 | 0 |
| 43 | The matrix in focus: new directions in extracellular matrix research from the 2021 ASMB hybrid meeting. Biology Open, 2022, 11, . | 1.2 | 0 |