Christopher M Overall

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266 papers	24,559 citations	84 h-index	149 g-index
283 ext. papers	26,926 ext. citations	8.3 avg, IF	7.07 L-index

#	Paper	IF	Citations
266	Tumour microenvironment - opinion: validating matrix metalloproteinases as drug targets and anti-targets for cancer therapy. *Nature Reviews Cancer*, **2006**, 6, 227-39	31.3	1005
265	Multi-step pericellular proteolysis controls the transition from individual to collective cancer cell invasion. *Nature Cell Biology*, **2007**, 9, 893-904	23.4	761
264	Human and mouse proteases: a comparative genomic approach. *Nature Reviews Genetics*, **2003**, 4, 544-58	30.1	725
263	Inflammation dampened by gelatinase A cleavage of monocyte chemoattractant protein-3. *Science*, **2000**, 289, 1202-6	33.3	651
262	Protease degradomics: a new challenge for proteomics. *Nature Reviews Molecular Cell Biology*, **2002**, 3, 509-19	48.7	608
261	Targeting tumor hypoxia: suppression of breast tumor growth and metastasis by novel carbonic anhydrase IX inhibitors. *Cancer Research*, **2011**, 71, 3364-76	10.1	563
260	Loss of collagenase-2 confers increased skin tumor susceptibility to male mice. *Nature Genetics*, **2003**, 35, 252-7	36.3	501
259	Independent Regulation of Collagenase, 72-kDa Progelatinase, and Metalloendoproteinase Inhibitor Expression in Human Fibroblasts by Transforming Growth Factor-□*Journal of Biological Chemistry*, **1989**, 264, 1860-1869	5.4	498
258	Matrix metalloproteinase activity inactivates the CXC chemokine stromal cell-derived factor-1. *Journal of Biological Chemistry*, **2001**, 276, 43503-8	5.4	497
257	Matrix metalloproteinase processing of monocyte chemoattractant proteins generates CC chemokine receptor antagonists with anti-inflammatory properties in vivo. *Blood*, **2002**, 100, 1160-1167	2.2	486
256	Independent regulation of collagenase, 72-kDa progelatinase, and metalloendoproteinase inhibitor expression in human fibroblasts by transforming growth factor-beta. *Journal of Biological Chemistry*, **1989**, 264, 1860-9	5.4	477
255	Antisense RNA-induced reduction in murine TIMP levels confers oncogenicity on Swiss 3T3 cells. *Science*, **1989**, 243, 947-50	33.3	404
254	Isotopic labeling of terminal amines in complex samples identifies protein N-termini and protease cleavage products. *Nature Biotechnology*, **2010**, 28, 281-8	44.5	403
253	Matrix metalloproteinases: what do they not do? New substrates and biological roles identified by murine models and proteomics. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2010**, 1803, 39-54	4.9	374
252	Molecular determinants of metalloproteinase substrate specificity: matrix metalloproteinase substrate binding domains, modules, and exosites. *Molecular Biotechnology*, **2002**, 22, 51-86	3	371
251	Proteome-derived, database-searchable peptide libraries for identifying protease cleavage sites. *Nature Biotechnology*, **2008**, 26, 685-94	44.5	306
250	Transcriptional and post-transcriptional regulation of 72-kDa gelatinase/type IV collagenase by transforming growth factor-beta 1 in human fibroblasts. Comparisons with collagenase and tissue inhibitor of matrix metalloproteinase gene expression. *Journal of Biological Chemistry*, **1991**, 266, 14064-71	5.4	301

249	In search of partners: linking extracellular proteases to substrates. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 245-57	48.7	293
248	Towards third generation matrix metalloproteinase inhibitors for cancer therapy. *British Journal of Cancer*, **2006**, 94, 941-6	8.7	280
247	HIV-induced metalloproteinase processing of the chemokine stromal cell derived factor-1 causes neurodegeneration. *Nature Neuroscience*, **2003**, 6, 1064-71	25.5	264
246	Membrane protease proteomics: Isotope-coded affinity tag MS identification of undescribed MT1-matrix metalloproteinase substrates. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 6917-22	11.5	245
245	Missing the target: matrix metalloproteinase antitargets in inflammation and cancer. *Trends in Pharmacological Sciences*, **2013**, 34, 233-42	13.2	241
244	Identifying and quantifying proteolytic events and the natural N terminome by terminal amine isotopic labeling of substrates. *Nature Protocols*, **2011**, 6, 1578-611	18.8	221
243	Microbiota and crevicular fluid collagenase activity in the osseointegrated dental implant sulcus: a comparison of sites in edentulous and partially edentulous patients. *Journal of Periodontal Research*, **1989**, 24, 96-105	4.3	216
242	Matrix metalloproteinase proteomics: substrates, targets, and therapy. *Current Opinion in Cell Biology*, **2009**, 21, 645-53	9	208
241	Multiplex N-terminome analysis of MMP-2 and MMP-9 substrate degradomes by iTRAQ-TAILS quantitative proteomics. *Molecular and Cellular Proteomics*, **2010**, 9, 894-911	7.6	207
240	The matrix metalloproteinase gelatinase A in human dentine. *Archives of Oral Biology*, **2000**, 45, 757-65	2.8	204
239	Matrix metalloproteinase processing of monocyte chemoattractant proteins generates CC chemokine receptor antagonists with anti-inflammatory properties in vivo. *Blood*, **2002**, 100, 1160-7	2.2	201
238	Subsite mapping of the human pancreatic alpha-amylase active site through structural, kinetic, and mutagenesis techniques. *Biochemistry*, **2000**, 39, 4778-91	3.2	194
237	Proteomics discovery of metalloproteinase substrates in the cellular context by iTRAQ labeling reveals a diverse MMP-2 substrate degradome. *Molecular and Cellular Proteomics*, **2007**, 6, 611-23	7.6	193
236	A new transcriptional role for matrix metalloproteinase-12 in antiviral immunity. *Nature Medicine*, **2014**, 20, 493-502	50.5	182
235	Degradomics: systems biology of the protease web. Pleiotropic roles of MMPs in cancer. *Cancer and Metastasis Reviews*, **2006**, 25, 69-75	9.6	181
234	Macrophage-specific metalloelastase (MMP-12) truncates and inactivates ELR+ CXC chemokines and generates CCL2, -7, -8, and -13 antagonists: potential role of the macrophage in terminating polymorphonuclear leukocyte influx. *Blood*, **2008**, 112, 3455-64	2.2	179
233	Extracellular matrix binding properties of recombinant fibronectin type II-like modules of human 72-kDa gelatinase/type IV collagenase. High affinity binding to native type I collagen but not native type IV collagen. *Journal of Biological Chemistry*, **1995**, 270, 11555-66	5.4	178
232	Concanavalin A produces a matrix-degradative phenotype in human fibroblasts. Induction and endogenous activation of collagenase, 72-kDa gelatinase, and Pump-1 is accompanied by the suppression of the tissue inhibitor of matrix metalloproteinases.. *Journal of Biological Chemistry*, **1990**, 265, 21141-21151	5.4	178

231	Concanavalin A produces a matrix-degradative phenotype in human fibroblasts. Induction and endogenous activation of collagenase, 72-kDa gelatinase, and Pump-1 is accompanied by the suppression of the tissue inhibitor of matrix metalloproteinases. *Journal of Biological Chemistry*, **1990**, 265, 21141-51	5.4	177
230	Updated biological roles for matrix metalloproteinases and new "intracellular" substrates revealed by degradomics. *Biochemistry*, **2009**, 48, 10830-45	3.2	172
229	Identification of candidate angiogenic inhibitors processed by matrix metalloproteinase 2 (MMP-2) in cell-based proteomic screens: disruption of vascular endothelial growth factor (VEGF)/heparin affin regulatory peptide (pleiotrophin) and VEGF/Connective tissue growth factor angiogenic inhibitory complexes by MMP-2 proteolysis. *Molecular and Cellular Biology*, **2007**, 27, 8454-65	4.8	171
228	Proteolytic host cell enzymes in gingival crevice fluid. *Periodontology 2000*, **2003**, 31, 77-104	12.9	168
227	LPS responsiveness and neutrophil chemotaxis in vivo require PMN MMP-8 activity. *PLoS ONE*, **2007**, 2, e312	3.7	157
226	Cellular activation of MMP-2 (gelatinase A) by MT2-MMP occurs via a TIMP-2-independent pathway. *Journal of Biological Chemistry*, **2001**, 276, 47402-10	5.4	139
225	Functional interplay between type I collagen and cell surface matrix metalloproteinase activity. *Journal of Biological Chemistry*, **2001**, 276, 24833-42	5.4	135
224	Pharmacoproteomics of a metalloproteinase hydroxamate inhibitor in breast cancer cells: dynamics of membrane type 1 matrix metalloproteinase-mediated membrane protein shedding. *Molecular and Cellular Biology*, **2008**, 28, 4896-914	4.8	134
223	Characterization of the distinct collagen binding, helicase and cleavage mechanisms of matrix metalloproteinase 2 and 14 (gelatinase A and MT1-MMP): the differential roles of the MMP hemopexin c domains and the MMP-2 fibronectin type II modules in collagen triple helicase activities. *Journal of Biological Chemistry*, **2004**, 279, 43336-44	5.4	133
222	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 2.1. *Journal of Proteome Research*, **2016**, 15, 3961-3970	5.6	130
221	Proteome-wide analysis of protein carboxy termini: C terminomics. *Nature Methods*, **2010**, 7, 508-11	21.6	126
220	Specific, high affinity binding of tissue inhibitor of metalloproteinases-4 (TIMP-4) to the COOH-terminal hemopexin-like domain of human gelatinase A. TIMP-4 binds progelatinase A and the COOH-terminal domain in a similar manner to TIMP-2. *Journal of Biological Chemistry*, **1997**, 272, 15496-500	5.4	121
219	Toward [18F]-labeled aryltrifluoroborate radiotracers: in vivo positron emission tomography imaging of stable aryltrifluoroborate clearance in mice. *Journal of the American Chemical Society*, **2008**, 130, 12045-55	16.4	121
218	Metadegradomics: toward in vivo quantitative degradomics of proteolytic post-translational modifications of the cancer proteome. *Molecular and Cellular Proteomics*, **2008**, 7, 1925-51	7.6	120
217	The Human Plasma Proteome Draft of 2017: Building on the Human Plasma PeptideAtlas from Mass Spectrometry and Complementary Assays. *Journal of Proteome Research*, **2017**, 16, 4299-4310	5.6	119
216	Expression of matrix metalloproteinases (MMP-1 and -2) and their inhibitors (TIMP-1, -2 and -3) in oral lichen planus, dysplasia, squamous cell carcinoma and lymph node metastasis. *British Journal of Cancer*, **1998**, 77, 2239-45	8.7	119
215	Network analyses reveal pervasive functional regulation between proteases in the human protease web. *PLoS Biology*, **2014**, 12, e1001869	9.7	116
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205	LysargiNase mirrors trypsin for protein C-terminal and methylation-site identification. *Nature Methods*, **2015**, 12, 55-8	21.6	103
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203	Activated caspase-6 and caspase-6-cleaved fragments of huntingtin specifically colocalize in the nucleus. *Human Molecular Genetics*, **2008**, 17, 2390-404	5.6	102
202	Protease degradomics: mass spectrometry discovery of protease substrates and the CLIP-CHIP, a dedicated DNA microarray of all human proteases and inhibitors. *Biological Chemistry*, **2004**, 385, 493-504	4.5	101
201	The substrate degradome of meprin metalloproteases reveals an unexpected proteolytic link between meprin and ADAM10. *Cellular and Molecular Life Sciences*, **2013**, 70, 309-33	10.3	100
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199	Proteolytic Cleavage-Mechanisms, Function, and "Omic" Approaches for a Near-Ubiquitous Posttranslational Modification. *Chemical Reviews*, **2018**, 118, 1137-1168	68.1	99
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197	Proteolytic post-translational modification of proteins: proteomic tools and methodology. *Molecular and Cellular Proteomics*, **2013**, 12, 3532-42	7.6	98
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194	Matrix metalloproteinase-8 facilitates neutrophil migration through the corneal stromal matrix by collagen degradation and production of the chemotactic peptide Pro-Gly-Pro. *American Journal of Pathology*, **2008**, 173, 144-53	5.8	97
193	Cell surface chondroitin sulfate glycosaminoglycan in melanoma: role in the activation of pro-MMP-2 (pro-gelatinase A). *Biochemical Journal*, **2007**, 403, 553-63	3.8	97
192	Subcellular distribution and cytokine- and chemokine-regulated secretion of leukolysin/MT6-MMP/MMP-25 in neutrophils. *Journal of Biological Chemistry*, **2001**, 276, 21960-8	5.4	96
191	Can we predict protein from mRNA levels?. *Nature*, **2017**, 547, E19-E20	50.4	95
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187	A critical role for the membrane-type 1 matrix metalloproteinase in collagen phagocytosis. *Molecular Biology of the Cell*, **2006**, 17, 4812-26	3.5	91
186	Systems-level analysis of proteolytic events in increased vascular permeability and complement activation in skin inflammation. *Science Signaling*, **2013**, 6, rs2	8.8	89
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184	Characterization of the prime and non-prime active site specificities of proteases by proteome-derived peptide libraries and tandem mass spectrometry. *Nature Protocols*, **2011**, 6, 111-20	18.8	84
183	Demonstration of tissue collagenase activity in vivo and its relationship to inflammation severity in human gingiva. *Journal of Periodontal Research*, **1987**, 22, 81-8	4.3	84
182	Deciphering complex mechanisms in neurodegenerative diseases: the advent of systems biology. *Trends in Neurosciences*, **2009**, 32, 88-100	13.3	83
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179	The roles of substrate thermal stability and P2 and P1' subsite identity on matrix metalloproteinase triple-helical peptidase activity and collagen specificity. *Journal of Biological Chemistry*, **2006**, 281, 38302-13	5.4	81
178	Annotating N termini for the human proteome project: N termini and Nα-acetylation status differentiate stable cleaved protein species from degradation remnants in the human erythrocyte proteome. *Journal of Proteome Research*, **2014**, 13, 2028-44	5.6	80

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170	Protease proteomics: revealing protease in vivo functions using systems biology approaches. *Molecular Aspects of Medicine*, **2008**, 29, 339-58	16.7	75
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168	Protein Termini and Their Modifications Revealed by Positional Proteomics. *ACS Chemical Biology*, **2015**, 10, 1754-64	4.9	73
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161	Assessment of a novel screening test for neutrophil collagenase activity in the diagnosis of periodontal diseases. *Journal of Periodontology*, **1999**, 70, 1292-302	4.6	72
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151	A statistics-based platform for quantitative N-terminome analysis and identification of protease cleavage products. *Molecular and Cellular Proteomics*, **2010**, 9, 912-27	7.6	63
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139	Factor Xa subsite mapping by proteome-derived peptide libraries improved using WebPICS, a resource for proteomic identification of cleavage sites. *Biological Chemistry*, **2011**, 392, 1031-7	4.5	50
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134	Biochemical analysis of matrix metalloproteinase activation of chemokines CCL15 and CCL23 and increased glycosaminoglycan binding of CCL16. *Journal of Biological Chemistry*, **2012**, 287, 5848-60	5.4	48
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