Christopher M Overall

List of Publications by Year in Descending Order

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	MALT1-Dependent Cleavage of HOIL1 Modulates Canonical NF-B Signaling and Inflammatory Responsiveness. *Frontiers in Immunology*, **2021**, 12, 749794	8.4	1
265	Mechanistic insights into COVID-19 by global analysis of the SARS-CoV-2 3CL substrate degradome. *Cell Reports*, **2021**, 37, 109892	10.6	11
264	Progress Identifying and Analyzing the Human Proteome: 2021Metrics from the HUPO Human Proteome Project. *Journal of Proteome Research*, **2021**, 20, 5227-5240	5.6	7
263	Mechanistic understanding of the combined immunodeficiency in complete human CARD11 deficiency. *Journal of Allergy and Clinical Immunology*, **2021**, 148, 1559-1574.e13	11.5	9
262	MMP8 increases tongue carcinoma cell-cell adhesion and diminishes migration via cleavage of anti-adhesive FXYD5. *Oncogenesis*, **2021**, 10, 44	6.6	2
261	A 9-kDa matricellular SPARC fragment released by cathepsin D exhibits pro-tumor activity in the triple-negative breast cancer microenvironment. *Theranostics*, **2021**, 11, 6173-6192	12.1	8
260	Enzymatically releasable polyethylene glycol - host defense peptide conjugates with improved activity and biocompatibility. *Journal of Controlled Release*, **2021**, 339, 220-231	11.7	1
259	Classification and Nomenclature of Metacaspases and Paracaspases: No More Confusion with Caspases. *Molecular Cell*, **2020**, 77, 927-929	17.6	35
258	Kallikrein-Related Peptidase 14 Activates Zymogens of Membrane Type Matrix Metalloproteinases (MT-MMPs)-A CleavEx Based Analysis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
257	Master Sculptor at Work: Enteropathogenic Escherichia coli Infection Uniquely Modifies Mitochondrial Proteolysis during Its Control of Human Cell Death. *MSystems*, **2020**, 5,	7.6	3
256	DIPPER, a spatiotemporal proteomics atlas of human intervertebral discs for exploring ageing and degeneration dynamics. *ELife*, **2020**, 9,	8.9	11
255	Moonlighting matrix metalloproteinase substrates: Enhancement of proinflammatory functions of extracellular tyrosyl-tRNA synthetase upon cleavage. *Journal of Biological Chemistry*, **2020**, 295, 2186-2202	5.4	7
254	A high-stringency blueprint of the human proteome. *Nature Communications*, **2020**, 11, 5301	17.4	59
253	Research on the Human Proteome Reaches a Major Milestone: >90% of Predicted Human Proteins Now Credibly Detected, According to the HUPO Human Proteome Project. *Journal of Proteome Research*, **2020**, 19, 4735-4746	5.6	25
252	An allosteric MALT1 inhibitor is a molecular corrector rescuing function in an immunodeficient patient. *Nature Chemical Biology*, **2019**, 15, 304-313	11.7	30
251	Matrix metalloproteinases in the CNS: interferons get nervous. *Cellular and Molecular Life Sciences*, **2019**, 76, 3083-3095	10.3	22
250	Persistent Salmonella enterica Serovar Typhimurium Infection Induces Protease Expression During Intestinal Fibrosis. *Inflammatory Bowel Diseases*, **2019**, 25, 1629-1643	4.5	7

249	Proteases and their inhibitors as prognostic factors for high-grade serous ovarian cancer. *Pathology Research and Practice*, **2019**, 215, 152369	3.4	1
248	Progress on Identifying and Characterizing the Human Proteome: 2019 Metrics from the HUPO Human Proteome Project. *Journal of Proteome Research*, **2019**, 18, 4098-4107	5.6	32
247	Matrix metalloproteinases inactivate the proinflammatory functions of secreted moonlighting tryptophanyl-tRNA synthetase. *Journal of Biological Chemistry*, **2019**, 294, 12866-12879	5.4	12
246	Deep Profiling of the Cleavage Specificity and Human Substrates of Snake Venom Metalloprotease HF3 by Proteomic Identification of Cleavage Site Specificity (PICS) Using Proteome Derived Peptide Libraries and Terminal Amine Isotopic Labeling of Substrates (TAILS) N-Terminomics. *Journal of Proteome Research*, **2019**, 18, 3419-3428	5.6	8
245	Novel Human Aminopeptidase N Inhibitors: Discovery and Optimization of Subsite Binding Interactions. *Journal of Medicinal Chemistry*, **2019**, 62, 7185-7209	8.3	11
244	Proteomic and N-Terminomic TAILS Analyses of Human Alveolar Bone Proteins: Improved Protein Extraction Methodology and LysargiNase Digestion Strategies Increase Proteome Coverage and Missing Protein Identification. *Journal of Proteome Research*, **2019**, 18, 4167-4179	5.6	13
243	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 3.0. *Journal of Proteome Research*, **2019**, 18, 4108-4116	5.6	37
242	Simplified high yield TAILS terminomics using a new HPG-ALD 800K-2000 polymer with precipitation. *Methods in Enzymology*, **2019**, 626, 429-446	1.7	4
241	Neutrophil elastase-cleaved corticosteroid-binding globulin is absent in human plasma. *Journal of Endocrinology*, **2019**, 240, 27-39	4.7	3
240	Intracellular Localization in Zebrafish Muscle and Conserved Sequence Features Suggest Roles for Gelatinase A Moonlighting in Sarcomere Maintenance. *Biomedicines*, **2019**, 7,	4.8	7
239	Precision Peptide Sequencing Using Mirror Proteases of Ac-LysargiNase and Trypsin for Large-scale Proteomics. *Molecular and Cellular Proteomics*, **2019**, 18, 773-785	7.6	19
238	Hydroxamic Acid Inhibitors Provide Cross-Species Inhibition of Plasmodium M1 and M17 Aminopeptidases. *Journal of Medicinal Chemistry*, **2019**, 62, 622-640	8.3	16
237	N-Terminomics TAILS Identifies Host Cell Substrates of Poliovirus and Coxsackievirus B3 3C Proteinases That Modulate Virus Infection. *Journal of Virology*, **2018**, 92,	6.6	39
236	Proteolytic Cleavage-Mechanisms, Function, and "Omic" Approaches for a Near-Ubiquitous Posttranslational Modification. *Chemical Reviews*, **2018**, 118, 1137-1168	68.1	99
235	Identification of Protease Cleavage Sites and Substrates in Cancer by Carboxy-TAILS (C-TAILS). *Methods in Molecular Biology*, **2018**, 1731, 15-28	1.4	3
234	TAILS N-terminomics and proteomics reveal complex regulation of proteolytic cleavage by -glycosylation. *Journal of Biological Chemistry*, **2018**, 293, 7629-7644	5.4	17
233	Aging-associated modifications of collagen affect its degradation by matrix metalloproteinases. *Matrix Biology*, **2018**, 65, 30-44	11.4	67
232	The Human Odontoblast Cell Layer and Dental Pulp Proteomes and N-Terminomes. *Journal of Dental Research*, **2018**, 97, 338-346	8.1	8

231	Granzyme B is elevated in autoimmune blistering diseases and cleaves key anchoring proteins of the dermal-epidermal junction. *Scientific Reports*, **2018**, 8, 9690	4.9	25
230	Progress on Identifying and Characterizing the Human Proteome: 2018 Metrics from the HUPO Human Proteome Project. *Journal of Proteome Research*, **2018**, 17, 4031-4041	5.6	46
229	C-terminal truncation of IFN-β inhibits proinflammatory macrophage responses and is deficient in autoimmune disease. *Nature Communications*, **2018**, 9, 2416	17.4	33
228	Discovery of noncanonical translation initiation sites through mass spectrometric analysis of protein N termini. *Genome Research*, **2018**, 28, 25-36	9.7	41
227	Launching the C-HPP neXt-CP50 Pilot Project for Functional Characterization of Identified Proteins with No Known Function. *Journal of Proteome Research*, **2018**, 17, 4042-4050	5.6	31
226	TAILS proteomics reveals dynamic changes in airway proteolysis controlling protease activity and innate immunity during COPD exacerbations. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2018**, 315, L1003-L1014	5.8	14
225	Global Profiling of Proteolysis from the Mitochondrial Amino Terminome during Early Intrinsic Apoptosis Prior to Caspase-3 Activation. *Journal of Proteome Research*, **2018**, 17, 4279-4296	5.6	14
224	Melanocyte development in the mouse tail epidermis requires the Adamts9 metalloproteinase. *Pigment Cell and Melanoma Research*, **2018**, 31, 693-707	4.5	8
223	Interactome disassembly during apoptosis occurs independent of caspase cleavage. *Molecular Systems Biology*, **2017**, 13, 906	12.2	37
222	Highly sensitive and adaptable fluorescence-quenched pair discloses the substrate specificity profiles in diverse protease families. *Scientific Reports*, **2017**, 7, 43135	4.9	36
221	Sharpening Host Defenses during Infection: Proteases Cut to the Chase. *Molecular and Cellular Proteomics*, **2017**, 16, S161-S171	7.6	28
220	Protean proteases: at the cutting edge of lung diseases. *European Respiratory Journal*, **2017**, 49,	13.6	38
219	Site-specific -Glycosylation by Polypeptide -Acetylgalactosaminyltransferase 2 (GalNAc-transferase T2) Co-regulates Adrenergic Receptor N-terminal Cleavage. *Journal of Biological Chemistry*, **2017**, 292, 4714-4726	5.4	23
218	Protease-Inhibitor Interaction Predictions: Lessons on the Complexity of Protein-Protein Interactions. *Molecular and Cellular Proteomics*, **2017**, 16, 1038-1051	7.6	12
217	New intracellular activities of matrix metalloproteinases shine in the moonlight. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 2043-2055	4.9	78
216	Advances in the Chromosome-Centric Human Proteome Project: looking to the future. *Expert Review of Proteomics*, **2017**, 14, 1059-1071	4.2	21
215	Progress on the HUPO Draft Human Proteome: 2017 Metrics of the Human Proteome Project. *Journal of Proteome Research*, **2017**, 16, 4281-4287	5.6	46
214	Discovery of a proteolytic flagellin family in diverse bacterial phyla that assembles enzymatically active flagella. *Nature Communications*, **2017**, 8, 521	17.4	27

213	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
212	Characterizing the Termini of Recombinant Proteins **2017**, 43-71		
211	Overview of transcriptomic analysis of all human proteases, non-proteolytic homologs and inhibitors: Organ, tissue and ovarian cancer cell line expression profiling of the human protease degradome by the CLIP-CHIP DNA microarray. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2017**, 1864, 2210-2219	4.9	25
210	Traumatic brain injury induced matrix metalloproteinase2 cleaves CXCL12 stromal cell derived factor 1 and causes neurodegeneration. *Brain, Behavior, and Immunity*, **2017**, 59, 190-199	16.6	27
209	Degradomic and yeast 2-hybrid inactive catalytic domain substrate trapping identifies new membrane-type 1 matrix metalloproteinase (MMP14) substrates: CCN3 (Nov) and CCN5 (WISP2). *Matrix Biology*, **2017**, 59, 23-38	11.4	20
208	Opposite Electron-Transfer Dissociation and Higher-Energy Collisional Dissociation Fragmentation Characteristics of Proteolytic K/R(X) and (X)K/R Peptides Provide Benefits for Peptide Sequencing in Proteomics and Phosphoproteomics. *Journal of Proteome Research*, **2017**, 16, 852-861	5.6	15
207	Can we predict protein from mRNA levels?. *Nature*, **2017**, 547, E19-E20	50.4	95
206	Active site specificity profiling of the matrix metalloproteinase family: Proteomic identification of 4300 cleavage sites by nine MMPs explored with structural and synthetic peptide cleavage analyses. *Matrix Biology*, **2016**, 49, 37-60	11.4	113
205	iRhom2 regulates CSF1R cell surface expression and non-steady state myelopoiesis in mice. *European Journal of Immunology*, **2016**, 46, 2737-2748	6.1	11
204	Active site specificity profiling datasets of matrix metalloproteinases (MMPs) 1, 2, 3, 7, 8, 9, 12, 13 and 14. *Data in Brief*, **2016**, 7, 299-310	1.2	13
203	Novel N-terminal and Lysine Methyltransferases That Target Translation Elongation Factor 1A in Yeast and Human. *Molecular and Cellular Proteomics*, **2016**, 15, 164-76	7.6	41
202	Novel grooved substrata stimulate macrophage fusion, CCL2 and MMP-9 secretion. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2243-54	5.4	8
201	Uncovering a Dual Regulatory Role for Caspases During Endoplasmic Reticulum Stress-induced Cell Death. *Molecular and Cellular Proteomics*, **2016**, 15, 2293-307	7.6	6
200	Quantitative proteomics and terminomics to elucidate the role of ubiquitination and proteolysis in adaptive immunity. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	7
199	Positional proteomics in the era of the human proteome project on the doorstep of precision medicine. *Biochimie*, **2016**, 122, 110-8	4.6	35
198	TAILS N-Terminomics and Proteomics Show Protein Degradation Dominates over Proteolytic Processing by Cathepsins in Pancreatic Tumors. *Cell Reports*, **2016**, 16, 1762-1773	10.6	51
197	Human Proteome Project Mass Spectrometry Data Interpretation Guidelines 2.1. *Journal of Proteome Research*, **2016**, 15, 3961-3970	5.6	130
196	Metrics for the Human Proteome Project 2016: Progress on Identifying and Characterizing the Human Proteome, Including Post-Translational Modifications. *Journal of Proteome Research*, **2016**, 15, 3951-3960	5.6	60

195	Proteome TopFIND 3.0 with TopFINDer and PathFINDer: database and analysis tools for the association of protein termini to pre- and post-translational events. *Nucleic Acids Research*, **2015**, 43, D290-7	20.1	82
194	Cysteine Cathepsins Activate ELR Chemokines and Inactivate Non-ELR Chemokines. *Journal of Biological Chemistry*, **2015**, 290, 13800-11	5.4	47
193	Proteolytic control of TGF-□co-receptor activity by BMP-1/tolloid-like proteases revealed by quantitative iTRAQ proteomics. *Cellular and Molecular Life Sciences*, **2015**, 72, 1009-27	10.3	20
192	Heterogeneous Nuclear Ribonucleoprotein M Facilitates Enterovirus Infection. *Journal of Virology*, **2015**, 89, 7064-78	6.6	35
191	The Human Dental Pulp Proteome and N-Terminome: Levering the Unexplored Potential of Semitryptic Peptides Enriched by TAILS to Identify Missing Proteins in the Human Proteome Project in Underexplored Tissues. *Journal of Proteome Research*, **2015**, 14, 3568-82	5.6	36
190	LysargiNase mirrors trypsin for protein C-terminal and methylation-site identification. *Nature Methods*, **2015**, 12, 55-8	21.6	103
189	Snake venom serine proteinases specificity mapping by proteomic identification of cleavage sites. *Journal of Proteomics*, **2015**, 113, 260-7	3.9	20
188	TAILS N-terminomic and proteomic datasets of healthy human dental pulp. *Data in Brief*, **2015**, 5, 542-8	1.2	7
187	The path of no return--Truncated protein N-termini and current ignorance of their genesis. *Proteomics*, **2015**, 15, 2547-52	4.8	28
186	Subtracting Matrix Out of the Equation: New Key Roles of Matrix Metalloproteinases in Innate Immunity and Disease **2015**, 131-152		3
185	The paracaspase MALT1 cleaves HOIL1 reducing linear ubiquitination by LUBAC to dampen lymphocyte NF-Ƀ signalling. *Nature Communications*, **2015**, 6, 8777	17.4	108
184	Protein Termini and Their Modifications Revealed by Positional Proteomics. *ACS Chemical Biology*, **2015**, 10, 1754-64	4.9	73
183	A new transcriptional role for matrix metalloproteinase-12 in antiviral immunity. *Nature Medicine*, **2014**, 20, 493-502	50.5	182
182	The Human Proteome Organization Chromosome 6 Consortium: integrating chromosome-centric and biology/disease driven strategies. *Journal of Proteomics*, **2014**, 100, 60-7	3.9	5
181	Proteomic protease specificity profiling of clostridial collagenases reveals their intrinsic nature as dedicated degraders of collagen. *Journal of Proteomics*, **2014**, 100, 102-14	3.9	49
180	Annotating N termini for the human proteome project: N termini and N□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
179	TAILS N-terminomics of human platelets reveals pervasive metalloproteinase-dependent proteolytic processing in storage. *Blood*, **2014**, 124, e49-60	2.2	42
178	Network analyses reveal pervasive functional regulation between proteases in the human protease web. *PLoS Biology*, **2014**, 12, e1001869	9.7	116

177	RC1339/APRc from Rickettsia conorii is a novel aspartic protease with properties of retropepsin-like enzymes. *PLoS Pathogens*, **2014**, 10, e1004324	7.6	15
176	Family-wide characterization of matrix metalloproteinases from Arabidopsis thaliana reveals their distinct proteolytic activity and cleavage site specificity. *Biochemical Journal*, **2014**, 457, 335-46	3.8	30
175	Macrophage matrix metalloproteinase-12 dampens inflammation and neutrophil influx in arthritis. *Cell Reports*, **2014**, 9, 618-32	10.6	70
174	Ensembles of protein termini and specific proteolytic signatures as candidate biomarkers of disease. *Proteomics - Clinical Applications*, **2014**, 8, 338-50	3.1	23
173	Absolute proteomic quantification of the activity state of proteases and proteolytic cleavages using proteolytic signature peptides and isobaric tags. *Journal of Proteomics*, **2014**, 100, 79-91	3.9	24
172	Cleavage specificity analysis of six type II transmembrane serine proteases (TTSPs) using PICS with proteome-derived peptide libraries. *PLoS ONE*, **2014**, 9, e105984	3.7	40
171	Matrix metalloproteinase processing of signaling molecules to regulate inflammation. *Periodontology 2000*, **2013**, 63, 123-48	12.9	35
170	Structure of the mycosin-1 protease from the mycobacterial ESX-1 protein type VII secretion system. *Journal of Biological Chemistry*, **2013**, 288, 17782-90	5.4	43
169	Missing the target: matrix metalloproteinase antitargets in inflammation and cancer. *Trends in Pharmacological Sciences*, **2013**, 34, 233-42	13.2	241
168	The peri-islet basement membrane, a barrier to infiltrating leukocytes in type 1 diabetes in mouse and human. *Diabetes*, **2013**, 62, 531-42	0.9	97
167	Protein TAILS: when termini tell tales of proteolysis and function. *Current Opinion in Chemical Biology*, **2013**, 17, 73-82	9.7	73
166	The substrate degradome of meprin metalloproteases reveals an unexpected proteolytic link between meprin β and ADAM10. *Cellular and Molecular Life Sciences*, **2013**, 70, 309-33	10.3	100
165	Proteolytic post-translational modification of proteins: proteomic tools and methodology. *Molecular and Cellular Proteomics*, **2013**, 12, 3532-42	7.6	98
164	Metalloproteases meprin α and meprin β are C- and N-procollagen proteinases important for collagen assembly and tensile strength. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14219-24	11.5	97
163	Identifying natural substrates for dipeptidyl peptidases 8 and 9 using terminal amine isotopic labeling of substrates (TAILS) reveals in vivo roles in cellular homeostasis and energy metabolism. *Journal of Biological Chemistry*, **2013**, 288, 13936-13949	5.4	52
162	Systems-level analysis of proteolytic events in increased vascular permeability and complement activation in skin inflammation. *Science Signaling*, **2013**, 6, rs2	8.8	89
161	Proteomic amino-termini profiling reveals targeting information for protein import into complex plastids. *PLoS ONE*, **2013**, 8, e74483	3.7	28
160	N- and C-terminal degradomics: new approaches to reveal biological roles for plant proteases from substrate identification. *Physiologia Plantarum*, **2012**, 145, 5-17	4.6	40

159	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
158	Biochemical characterization and N-terminomics analysis of leukolysin, the membrane-type 6 matrix metalloprotease (MMP25): chemokine and vimentin cleavages enhance cell migration and macrophage phagocytic activities. *Journal of Biological Chemistry*, **2012**, 287, 13382-95	5.4	72
157	Proteolysis of cystatin C by cathepsin D in the breast cancer microenvironment. *FASEB Journal*, **2012**, 26, 5172-81	0.9	48
156	TopFIND 2.0--linking protein termini with proteolytic processing and modifications altering protein function. *Nucleic Acids Research*, **2012**, 40, D351-61	20.1	50
155	CLIPPER: an add-on to the Trans-Proteomic Pipeline for the automated analysis of TAILS N-terminomics data. *Biological Chemistry*, **2012**, 393, 1477-83	4.5	32
154	Site specific cleavage mediated by MMPs regulates function of agrin. *PLoS ONE*, **2012**, 7, e43669	3.7	17
153	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
152	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
151	Identification of proteolytic products and natural protein N-termini by Terminal Amine Isotopic Labeling of Substrates (TAILS). *Methods in Molecular Biology*, **2011**, 753, 273-87	1.4	22
150	Amino-Terminal Oriented Mass Spectrometry of Substrates (ATOMS) N-terminal sequencing of proteins and proteolytic cleavage sites by quantitative mass spectrometry. *Methods in Enzymology*, **2011**, 501, 275-93	1.7	11
149	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
148	Towards kit-like 18F-labeling of marimastat, a noncovalent inhibitor drug for in vivo PET imaging cancer associated matrix metalloproteases. *MedChemComm*, **2011**, 2, 942	5	42
147	Protease specificity profiling by tandem mass spectrometry using proteome-derived peptide libraries. *Methods in Molecular Biology*, **2011**, 753, 257-72	1.4	18
146	Development of soluble ester-linked aldehyde polymers for proteomics. *Analytical Chemistry*, **2011**, 83, 6500-10	7.8	9
145	Microarray and proteomic analysis of breast cancer cell and osteoblast co-cultures: role of osteoblast matrix metalloproteinase (MMP)-13 in bone metastasis. *Journal of Biological Chemistry*, **2011**, 286, 34271-85	5.4	48
144	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
143	Proteomic analyses reveal an acidic prime side specificity for the astacin metalloprotease family reflected by physiological substrates. *Molecular and Cellular Proteomics*, **2011**, 10, M111.009233	7.6	100
142	Broad coverage identification of multiple proteolytic cleavage site sequences in complex high molecular weight proteins using quantitative proteomics as a complement to edman sequencing. *Molecular and Cellular Proteomics*, **2011**, 10, M110.003533	7.6	36

141	Membrane-type matrix metalloproteinase-3 regulates neuronal responsiveness to myelin through Nogo-66 receptor 1 cleavage. *Journal of Biological Chemistry*, **2011**, 286, 31418-24	5.4	27
140	Metalloprotease meprin beta generates nontoxic N-terminal amyloid precursor protein fragments in vivo. *Journal of Biological Chemistry*, **2011**, 286, 27741-50	5.4	76
139	TopFIND, a knowledgebase linking protein termini with function. *Nature Methods*, **2011**, 8, 703-4	21.6	76
138	Identification and relative quantification of native and proteolytically generated protein C-termini from complex proteomes: C-terminome analysis. *Methods in Molecular Biology*, **2011**, 781, 59-69	1.4	21
137	Monocyte chemotactic protein-3: possible involvement in apical periodontitis chemotaxis. *International Endodontic Journal*, **2010**, 43, 902-8	5.4	10
136	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
135	Proteome-wide analysis of protein carboxy termini: C terminomics. *Nature Methods*, **2010**, 7, 508-11	21.6	126
134	Stromal regulation of vessel stability by MMP14 and TGFbeta. *DMM Disease Models and Mechanisms* , **2010**, 3, 317-32	4.1	67
133	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
132	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
131	Novel matrix metalloproteinase inhibitor [18F]marimastat-aryltrifluoroborate as a probe for in vivo positron emission tomography imaging in cancer. *Cancer Research*, **2010**, 70, 7562-9	10.1	76
130	Chemokine monocyte chemoattractant protein-3 in progressive periodontal lesions in patients with chronic periodontitis. *Journal of Periodontology*, **2010**, 81, 267-76	4.6	17
129	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
128	Matrix metalloproteinase 8 deficiency in mice exacerbates inflammatory arthritis through delayed neutrophil apoptosis and reduced caspase 11 expression. *Arthritis and Rheumatism*, **2010**, 62, 3645-55		46
127	Cleaved high molecular weight kininogen inhibits tube formation of endothelial progenitor cells via suppression of matrix metalloproteinase 2. *Journal of Thrombosis and Haemostasis*, **2010**, 8, 185-93	15.4	20
126	Analysis of the degradome with the CLIP-CHIP microarray. *Methods in Molecular Biology*, **2010**, 622, 175-93	1.4	12
125	Chemokine Proteolytic Processing in HIV Infection: Neurotoxic and Neuroimmune Consequences **2010**, 149-172		1
124	Src stimulates fibroblast growth factor receptor-2 shedding by an ADAM15 splice variant linked to breast cancer. *Cancer Research*, **2009**, 69, 4573-6	10.1	27

123	Bone sialoprotein does not interact with pro-gelatinase A (MMP-2) or mediate MMP-2 activation. *BMC Cancer*, **2009**, 9, 121	4.8	6
122	Matrix metalloproteinase proteomics: substrates, targets, and therapy. *Current Opinion in Cell Biology*, **2009**, 21, 645-53	9	208
121	Proteomic identification of multitasking proteins in unexpected locations complicates drug targeting. *Nature Reviews Drug Discovery*, **2009**, 8, 935-48	64.1	112
120	CXCR3 activation by lentivirus infection suppresses neuronal autophagy: neuroprotective effects of antiretroviral therapy. *FASEB Journal*, **2009**, 23, 2928-41	0.9	35
119	Deciphering complex mechanisms in neurodegenerative diseases: the advent of systems biology. *Trends in Neurosciences*, **2009**, 32, 88-100	13.3	83
118	The collagen binding domain of gelatinase A modulates degradation of collagen IV by gelatinase B. *Journal of Molecular Biology*, **2009**, 386, 419-34	6.5	39
117	Updated biological roles for matrix metalloproteinases and new "intracellular" substrates revealed by degradomics. *Biochemistry*, **2009**, 48, 10830-45	3.2	172
116	Membrane protease degradomics: proteomic identification and quantification of cell surface protease substrates. *Methods in Molecular Biology*, **2009**, 528, 159-76	1.4	14
115	Chapter 13. Characterizing proteolytic processing of chemokines by mass spectrometry, biochemistry, neo-epitope antibodies and functional assays. *Methods in Enzymology*, **2009**, 461, 281-307	1.7	12
114	Cell-based identification of natural substrates and cleavage sites for extracellular proteases by SILAC proteomics. *Methods in Molecular Biology*, **2009**, 539, 131-53	1.4	17
113	Proteome-derived, database-searchable peptide libraries for identifying protease cleavage sites. *Nature Biotechnology*, **2008**, 26, 685-94	44.5	306
112	Stromal cell-derived factors 1alpha and 1beta, inflammatory protein-10 and interferon-inducible T cell chemo-attractant are novel substrates of dipeptidyl peptidase 8. *FEBS Letters*, **2008**, 582, 819-25	3.8	70
111	Corrigendum to [Stromal cell-derived factors 1α and 1β, inflammatory protein-10 and interferon-inducible T cell chemo-attractant are novel substrates of dipeptidyl peptidase 8 [FEBS Lett. 582 (2008) 819–825]. *FEBS Letters*, **2008**, 582, 1168-1168	3.8	
110	Cytokine Substrates: MMP Regulation of Inflammatory Signaling Molecules **2008**, 519-539		10
109	Protease proteomics: revealing protease in vivo functions using systems biology approaches. *Molecular Aspects of Medicine*, **2008**, 29, 339-58	16.7	75
108	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
107	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
106	Ablation of matrix metalloproteinase-9 increases severity of viral myocarditis in mice. *Circulation*, **2008**, 117, 1574-82	16.7	67

105	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
104	Matrix metalloproteinase processing of CXCL11/I-TAC results in loss of chemoattractant activity and altered glycosaminoglycan binding. *Journal of Biological Chemistry*, **2008**, 283, 19389-99	5.4	73
103	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
102	Collagenase-2 deficiency or inhibition impairs experimental autoimmune encephalomyelitis in mice. *Journal of Biological Chemistry*, **2008**, 283, 9465-74	5.4	55
101	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
100	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
99	Epithelial-mesenchymal transition (EMT) is not sufficient for spontaneous murine breast cancer metastasis. *Developmental Dynamics*, **2008**, 237, 2755-68	2.9	83
98	Differentiation of secreted and membrane-type matrix metalloproteinase activities based on substitutions and interruptions of triple-helical sequences. *Biochemistry*, **2007**, 46, 3724-33	3.2	46
97	Proteomic discovery of protease substrates. *Current Opinion in Chemical Biology*, **2007**, 11, 36-45	9.7	76
96	Multi-step pericellular proteolysis controls the transition from individual to collective cancer cell invasion. *Nature Cell Biology*, **2007**, 9, 893-904	23.4	761
95	In search of partners: linking extracellular proteases to substrates. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 245-57	48.7	293
94	Protease yoga: extreme flexibility of a matrix metalloproteinase. *Structure*, **2007**, 15, 1159-61	5.2	52
93	Proteomic validation of protease drug targets: pharmacoproteomics of matrix metalloproteinase inhibitor drugs using isotope-coded affinity tag labelling and tandem mass spectrometry. *Current Pharmaceutical Design*, **2007**, 13, 263-70	3.3	41
92	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
91	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
90	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
89	Protease research in the era of systems biology. *Biological Chemistry*, **2007**, 388, 1159-62	4.5	39
88	LPS responsiveness and neutrophil chemotaxis in vivo require PMN MMP-8 activity. *PLoS ONE*, **2007**, 2, e312	3.7	157

87	Function of liver activation-regulated chemokine/CC chemokine ligand 20 is differently affected by cathepsin B and cathepsin D processing. *Journal of Immunology*, **2006**, 176, 6512-22	5.3	41
86	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
85	TIMP independence of matrix metalloproteinase (MMP)-2 activation by membrane type 2 (MT2)-MMP is determined by contributions of both the MT2-MMP catalytic and hemopexin C domains. *Journal of Biological Chemistry*, **2006**, 281, 26528-39	5.4	57
84	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
83	Proteolytic processing of SDF-1alpha reveals a change in receptor specificity mediating HIV-associated neurodegeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19182-7	11.5	85
82	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
81	Towards third generation matrix metalloproteinase inhibitors for cancer therapy. *British Journal of Cancer*, **2006**, 94, 941-6	8.7	280
80	Degradomics: systems biology of the protease web. Pleiotropic roles of MMPs in cancer. *Cancer and Metastasis Reviews*, **2006**, 25, 69-75	9.6	181
79	Structural and mechanistic studies of chloride induced activation of human pancreatic alpha-amylase. *Protein Science*, **2005**, 14, 743-55	6.3	40
78	Dissecting the role of matrix metalloproteinases (MMP) and integrin alpha(v)beta3 in angiogenesis in vitro: absence of hemopexin C domain bioactivity, but membrane-Type 1-MMP and alpha(v)beta3 are critical. *Cancer Research*, **2005**, 65, 9377-87	10.1	60
77	Pivotal molecular determinants of peptidic and collagen triple helicase activities reside in the S3' subsite of matrix metalloproteinase 8 (MMP-8): the role of hydrogen bonding potential of ASN188 and TYR189 and the connecting cis bond. *Journal of Biological Chemistry*, **2005**, 280, 2370-7	5.4	41
76	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
75	Regulation of intercellular adhesion strength in fibroblasts. *Journal of Biological Chemistry*, **2004**, 279, 41047-57	5.4	23
74	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
73	In situ extension as an approach for identifying novel alpha-amylase inhibitors. *Journal of Biological Chemistry*, **2004**, 279, 48282-91	5.4	16
72	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	5.4	133
71	The canonical methionine 392 of matrix metalloproteinase 2 (gelatinase A) is not required for catalytic efficiency or structural integrity: probing the role of the methionine-turn in the metzincin metalloprotease superfamily. *Journal of Biological Chemistry*, **2004**, 279, 15615-20	5.4	37
70	Cortactin associates with N-cadherin adhesions and mediates intercellular adhesion strengthening in fibroblasts. *Journal of Cell Science*, **2004**, 117, 5117-31	5.3	56

69	Dilating the degradome: matrix metalloproteinase 2 (MMP-2) cuts to the heart of the matter. *Biochemical Journal*, **2004**, 383, e5-7	3.8	32
68	Proteolytic host cell enzymes in gingival crevice fluid. *Periodontology 2000*, **2003**, 31, 77-104	12.9	168
67	Loss of collagenase-2 confers increased skin tumor susceptibility to male mice. *Nature Genetics*, **2003**, 35, 252-7	36.3	501
66	HIV-induced metalloproteinase processing of the chemokine stromal cell derived factor-1 causes neurodegeneration. *Nature Neuroscience*, **2003**, 6, 1064-71	25.5	264
65	Human and mouse proteases: a comparative genomic approach. *Nature Reviews Genetics*, **2003**, 4, 544-58	30.1	725
64	Protease degradomics: a new challenge for proteomics. *Nature Reviews Molecular Cell Biology*, **2002** , 3, 509-19	48.7	608
63	Identification, regulation and role of tissue inhibitor of metalloproteinases-4 (TIMP-4) in human platelets. *British Journal of Pharmacology*, **2002**, 137, 1330-8	8.6	64
62	Molecular determinants of metalloproteinase substrate specificity: matrix metalloproteinase substrate binding domains, modules, and exosites. *Molecular Biotechnology*, **2002**, 22, 51-86	3	371
61	Collagen binding properties of the membrane type-1 matrix metalloproteinase (MT1-MMP) hemopexin C domain. The ectodomain of the 44-kDa autocatalytic product of MT1-MMP inhibits cell invasion by disrupting native type I collagen cleavage. *Journal of Biological Chemistry*, **2002**, 277, 39005-14	5.4	111
60	Discovery of chemokine substrates for matrix metalloproteinases by exosite scanning: a new tool for degradomics. *Biological Chemistry*, **2002**, 383, 1059-66	4.5	111
59	Mannose-binding lectin (MBL) mutants are susceptible to matrix metalloproteinase proteolysis: potential role in human MBL deficiency. *Journal of Biological Chemistry*, **2002**, 277, 17511-9	5.4	42
58	Utilization of a novel recombinant myoglobin fusion protein expression system to characterize the tissue inhibitor of metalloproteinase (TIMP)-4 and TIMP-2 C-terminal domain and tails by mutagenesis. The importance of acidic residues in binding the MMP-2 hemopexin C-domain. *Journal of Biological Chemistry*, **2002**, 277, 48696-707	5.4	27
57	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
56	Cancer cell-associated fibronectin induces release of matrix metalloproteinase-2 from normal fibroblasts. *Cancer Research*, **2002**, 62, 283-9	10.1	73
55	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
54	Functional interplay between type I collagen and cell surface matrix metalloproteinase activity. *Journal of Biological Chemistry*, **2001**, 276, 24833-42	5.4	135
53	Matrix metalloproteinase activity inactivates the CXC chemokine stromal cell-derived factor-1. *Journal of Biological Chemistry*, **2001**, 276, 43503-8	5.4	497
52	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

51	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
50	Matrix metalloproteinase substrate binding domains, modules and exosites. Overview and experimental strategies. *Methods in Molecular Biology*, **2001**, 151, 79-120	1.4	47
49	Tissue inhibitor of metalloproteinases-4 inhibits but does not support the activation of gelatinase A via efficient inhibition of membrane type 1-matrix metalloproteinase. *Cancer Research*, **2001**, 61, 3610-8	10.1	103
48	The matrix metalloproteinase gelatinase A in human dentine. *Archives of Oral Biology*, **2000**, 45, 757-65	2.8	204
47	Tissue inhibitor of metalloproteinase (TIMP)-2 acts synergistically with synthetic matrix metalloproteinase (MMP) inhibitors but not with TIMP-4 to enhance the (Membrane type 1)-MMP-dependent activation of pro-MMP-2. *Journal of Biological Chemistry*, **2000**, 275, 41415-23	5.4	104
46	Domain interactions in the gelatinase A.TIMP-2.MT1-MMP activation complex. The ectodomain of the 44-kDa form of membrane type-1 matrix metalloproteinase does not modulate gelatinase A activation. *Journal of Biological Chemistry*, **2000**, 275, 39497-506	5.4	76
45	Inflammation dampened by gelatinase A cleavage of monocyte chemoattractant protein-3. *Science*, **2000**, 289, 1202-6	33.3	651
44	Subsite mapping of the human pancreatic alpha-amylase active site through structural, kinetic, and mutagenesis techniques. *Biochemistry*, **2000**, 39, 4778-91	3.2	194
43	Use of a fluorogenic septapeptide matrix metalloproteinase assay to assess responses to periodontal treatment. *Journal of Periodontology*, **2000**, 71, 690-700	4.6	8
42	Gelatinase A in Human Dentin as a New Biochemical Marker for Age Estimation. *Journal of Forensic Sciences*, **2000**, 45, 14774J	1.8	4
41	Cloning, mutagenesis, and structural analysis of human pancreatic alpha-amylase expressed in Pichia pastoris. *Protein Science*, **1999**, 8, 635-43	6.3	46
40	Identification of the tissue inhibitor of metalloproteinases-2 (TIMP-2) binding site on the hemopexin carboxyl domain of human gelatinase A by site-directed mutagenesis. The hierarchical role in binding TIMP-2 of the unique cationic clusters of hemopexin modules III and IV. *Journal of Biological Chemistry*, **1999**, 274, 14121-9	5.4	66
39	Identification of the TIMP-2 binding site on the gelatinase A hemopexin C-domain by site-directed mutagenesis and the yeast two-hybrid system. *Annals of the New York Academy of Sciences*, **1999**, 878, 747-53	6.5	9
38	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
37	Activation of neutrophil collagenase in periodontitis. *Infection and Immunity*, **1999**, 67, 2319-26	3.7	107
36	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
35	A novel organ culture method to study the function of human odontoblasts in vitro: gelatinase expression by odontoblasts is differentially regulated by TGF-beta1. *Journal of Dental Research*, **1998**, 77, 1486-96	8.1	71
34	The involvement of the fibronectin type II-like modules of human gelatinase A in cell surface localization and activation. *Journal of Biological Chemistry*, **1998**, 273, 20622-8	5.4	73

33	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
32	The hemopexin-like domain (C domain) of human gelatinase A (matrix metalloproteinase-2) requires Ca2+ for fibronectin and heparin binding. Binding properties of recombinant gelatinase A C domain to extracellular matrix and basement membrane components. *Journal of Biological Chemistry*, **1997**, 272, 7473-81	5.4	93
31	A myoglobin variant with a polar substitution in a conserved hydrophobic cluster in the heme binding pocket. *BBA - Proteins and Proteomics*, **1997**, 1341, 1-13		92
30	Expression of 72-kDa gelatinase (matrix metalloproteinase-2) in the developing mouse craniofacial complex. *Archives of Oral Biology*, **1996**, 41, 1109-19	2.8	23
29	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
28	Repression of tissue inhibitor of matrix metalloproteinase expression by all-trans-retinoic acid in rat bone cell populations: comparison with transforming growth factor-beta 1. *Journal of Cellular Physiology*, **1995**, 164, 17-25	7	18
27	Regulation of tissue inhibitor of matrix metalloproteinase expression. *Annals of the New York Academy of Sciences*, **1994**, 732, 51-64	6.5	73
26	Specific alterations in the expression of alpha 3 beta 1 and alpha 6 beta 4 integrins in highly invasive and metastatic variants of human prostate carcinoma cells selected by in vitro invasion through reconstituted basement membrane. *Clinical and Experimental Metastasis*, **1993**, 11, 391-400	4.7	114
25	Reciprocal regulation of collagenase, 72 kDa-gelatinase, and TIMP gene expression and protein synthesis in human fibroblasts induced by concanavalin A. *Matrix Supplement*, **1992**, 1, 209-11		3
24	Matrix metalloproteinases in periodontal tissue remodelling. *Matrix Supplement*, **1992**, 1, 352-62		31
23	Induction of formative and resorptive cellular phenotypes in human gingival fibroblasts by TGF-beta 1 and concanavalin A: regulation of matrix metalloproteinases and TIMP. *Journal of Periodontal Research*, **1991**, 26, 279-82	4.3	20
22	Collagenase activity in recurrent periodontitis: relationship to disease progression and doxycycline therapy. *Journal of Periodontal Research*, **1991**, 26, 479-85	4.3	55
21	Regulation of the expression of a secreted acidic protein rich in cysteine (SPARC) in human fibroblasts by transforming growth factor beta. Comparison of transcriptional and post-transcriptional control with fibronectin and type I collagen. *FEBS Journal*, **1991**, 197, 519-28		99
20	Differential regulation of the 55 and 44 kDa forms of secreted phosphoprotein 1 (SPP-1, osteopontin) in normal and transformed rat bone cells by osteotropic hormones, growth factors and a tumor promoter. *Bone and Mineral*, **1991**, 13, 235-50		67
19	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
18	Evidence for polymorphonuclear leukocyte collagenase and 92-kilodalton gelatinase in gingival crevicular fluid. *Infection and Immunity*, **1991**, 59, 4687-92	3.7	50
17	Identification of polymorphonuclear leukocyte collagenase and gelatinase activities in mouthrinse samples: correlation with periodontal disease activity in adult and juvenile periodontitis. *Journal of Periodontal Research*, **1990**, 25, 257-67	4.3	93
16	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

15	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
14	Transforming growth factor-beta regulation of collagenase, 72 kDa-progelatinase, TIMP and PAI-1 expression in rat bone cell populations and human fibroblasts. *Connective Tissue Research*, **1989**, 20, 289-94	3.3	76
13	Antisense RNA-induced reduction in murine TIMP levels confers oncogenicity on Swiss 3T3 cells. *Science*, **1989**, 243, 947-50	33.3	404
12	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
11	Measurements of probing velocity with an automated periodontal probe and the relationship with experimental periodontitis in the Cynomolgus monkey (Macaca fascicularis). *Archives of Oral Biology*, **1989**, 34, 793-801	2.8	15
10	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
9	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
8	Identification of matrix metalloendoproteinase inhibitor (TIMP) in human parotid and submandibular saliva: partial purification and characterization. *Journal of Periodontal Research*, **1988**, 23, 370-7	4.3	35
7	Biochemical comparison of fibroblast populations from different periodontal tissues: characterization of matrix protein and collagenolytic enzyme synthesis. *Biochemistry and Cell Biology*, **1988**, 66, 167-76	3.6	35
6	Identification and characterization of enamel proteinases isolated from developing enamel. Amelogeninolytic serine proteinases are associated with enamel maturation in pig. *Biochemical Journal*, **1988**, 256, 965-72	3.8	112
5	Initial characterization of a neutral metalloproteinase, active on native 3/4-collagen fragments, synthesized by ROS 17/2.8 osteoblastic cells, periodontal fibroblasts, and identified in gingival crevicular fluid. *Journal of Dental Research*, **1987**, 66, 1271-82	8.1	74
4	A microtechnique for dialysis of small volume solutions with quantitative recoveries. *Analytical Biochemistry*, **1987**, 165, 208-14	3.1	53
3	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
2	Quantitation and optimization of enzymatic and mechanical procedures to procedures to produce high-yield single cell suspensions from human gingiva. *Journal of Periodontal Research*, **1987**, 22, 41-9	4.3	3
1	DIPPER: a spatiotemporal proteomics atlas of human intervertebral discs for exploring ageing and degeneration dynamics		1