

Ghislain Opdenakker

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448
papers

26,302
citations

84
h-index

144
g-index

475
ext. papers

29,017
ext. citations

6.6
avg, IF

6.72
L-index

| # | Paper | IF | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 448 | Microglia emerge from erythromyeloid precursors via Pu.1- and Irf8-dependent pathways. <i>Nature Neuroscience</i> , 2013 , 16, 273-80 | 25.5 | 875 |
| 447 | Biochemistry and molecular biology of gelatinase B or matrix metalloproteinase-9 (MMP-9). <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2002 , 37, 375-536 | 8.7 | 663 |
| 446 | Identification of the human 26-kD protein, interferon beta 2 (IFN-beta 2), as a B cell hybridoma/plasmacytoma growth factor induced by interleukin 1 and tumor necrosis factor. <i>Journal of Experimental Medicine</i> , 1987 , 165, 914-9 | 16.6 | 618 |
| 445 | Matrix metalloproteinase inhibitors as therapy for inflammatory and vascular diseases. <i>Nature Reviews Drug Discovery</i> , 2007 , 6, 480-98 | 64.1 | 577 |
| 444 | Neutrophil gelatinase B potentiates interleukin-8 tenfold by aminoterminal processing, whereas it degrades CTAP-III, PF-4, and GRO- α and leaves RANTES and MCP-2 intact. <i>Blood</i> , 2000 , 96, 2673-2681 | 2.2 | 554 |
| 443 | Concepts and principles of O-linked glycosylation. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 1998 , 33, 151-208 | 8.7 | 532 |
| 442 | Biochemistry and molecular biology of gelatinase B or matrix metalloproteinase-9 (MMP-9): the next decade. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2013 , 48, 222-72 | 8.7 | 465 |
| 441 | Dystroglycan is selectively cleaved at the parenchymal basement membrane at sites of leukocyte extravasation in experimental autoimmune encephalomyelitis. <i>Journal of Experimental Medicine</i> , 2006 , 203, 1007-19 | 16.6 | 424 |
| 440 | Gelatinase B: a tuner and amplifier of immune functions. <i>Trends in Immunology</i> , 2001 , 22, 571-9 | 14.4 | 337 |
| 439 | Structural and functional identification of two human, tumor-derived monocyte chemotactic proteins (MCP-2 and MCP-3) belonging to the chemokine family. <i>Journal of Experimental Medicine</i> , 1992 , 176, 59-65 | 16.6 | 312 |
| 438 | Molecular mechanisms of NET formation and degradation revealed by intravital imaging in the liver vasculature. <i>Nature Communications</i> , 2015 , 6, 6673 | 17.4 | 302 |
| 437 | Glycoforms modify the dynamic stability and functional activity of an enzyme. <i>Biochemistry</i> , 1994 , 33, 17-22 | 3.2 | 296 |
| 436 | A novel, NH2-terminal sequence-characterized human monokine possessing neutrophil chemotactic, skin-reactive, and granulocytosis-promoting activity. <i>Journal of Experimental Medicine</i> , 1988 , 167, 1364-76 | 16.6 | 286 |
| 435 | The biochemical, biological, and pathological kaleidoscope of cell surface substrates processed by matrix metalloproteinases. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2007 , 42, 113-85 | 8.7 | 282 |
| 434 | Molecular cloning of a novel human CC chemokine liver and activation-regulated chemokine (LARC) expressed in liver. Chemotactic activity for lymphocytes and gene localization on chromosome 2. <i>Journal of Biological Chemistry</i> , 1997 , 272, 5846-53 | 5.4 | 280 |
| 433 | Gelatinase in the cerebrospinal fluid of patients with multiple sclerosis and other inflammatory neurological disorders. <i>Journal of Neuroimmunology</i> , 1992 , 41, 29-34 | 3.5 | 264 |
| 432 | Plasminogen activators and matrix metalloproteases, mediators of extracellular proteolysis in inflammatory demyelination of the central nervous system. <i>Journal of Neuroimmunology</i> , 1999 , 94, 1-14 | 3.5 | 241 |

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 431 | The MCP/eotaxin subfamily of CC chemokines. <i>Cytokine and Growth Factor Reviews</i> , 1999 , 10, 61-86 | 17.9 | 236 |
| 430 | Resistance of young gelatinase B-deficient mice to experimental autoimmune encephalomyelitis and necrotizing tail lesions. <i>Journal of Clinical Investigation</i> , 1999 , 104, 1507-15 | 15.9 | 224 |
| 429 | Gelatinase B/MMP-9 and neutrophil collagenase/MMP-8 process the chemokines human GCP-2/CXCL6, ENA-78/CXCL5 and mouse GCP-2/LIX and modulate their physiological activities. <i>FEBS Journal</i> , 2003 , 270, 3739-49 | | 217 |
| 428 | VEGF-A recruits a proangiogenic MMP-9-delivering neutrophil subset that induces angiogenesis in transplanted hypoxic tissue. <i>Blood</i> , 2012 , 120, 4653-62 | 2.2 | 215 |
| 427 | Purification and identification of 91-kDa neutrophil gelatinase. Release by the activating peptide interleukin-8. <i>FEBS Journal</i> , 1991 , 198, 391-8 | | 213 |
| 426 | Intracellular substrate cleavage: a novel dimension in the biochemistry, biology and pathology of matrix metalloproteinases. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010 , 45, 351-423 | 8.7 | 212 |
| 425 | On the dual roles and polarized phenotypes of neutrophils in tumor development and progression. <i>Critical Reviews in Oncology/Hematology</i> , 2012 , 82, 296-309 | 7 | 211 |
| 424 | Amino-terminal truncation of chemokines by CD26/dipeptidyl-peptidase IV. Conversion of RANTES into a potent inhibitor of monocyte chemotaxis and HIV-1-infection. <i>Journal of Biological Chemistry</i> , 1998 , 273, 7222-7 | 5.4 | 211 |
| 423 | Zymography methods for visualizing hydrolytic enzymes. <i>Nature Methods</i> , 2013 , 10, 211-20 | 21.6 | 209 |
| 422 | Prevention of interleukin-8-induced mobilization of hematopoietic progenitor cells in rhesus monkeys by inhibitory antibodies against the metalloproteinase gelatinase B (MMP-9). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 10863-8 | 11.5 | 208 |
| 421 | Amino-terminal truncation of CXCR3 agonists impairs receptor signaling and lymphocyte chemotaxis, while preserving antiangiogenic properties. <i>Blood</i> , 2001 , 98, 3554-61 | 2.2 | 202 |
| 420 | The expression of tissue-type plasminogen activator, matrix metalloproteinases and endogenous inhibitors in the central nervous system in multiple sclerosis: comparison of stages in lesion evolution. <i>Journal of Neuropathology and Experimental Neurology</i> , 1996 , 55, 1194-204 | 3.1 | 201 |
| 419 | Homogeneous interferon-inducing 22K factor is related to endogenous pyrogen and interleukin-1. <i>Nature</i> , 1985 , 314, 266-8 | 50.4 | 201 |
| 418 | Matrix metalloproteinase-9 facilitates remyelination in part by processing the inhibitory NG2 proteoglycan. <i>Journal of Neuroscience</i> , 2003 , 23, 11127-35 | 6.6 | 201 |
| 417 | Cytokine-regulated proteases in autoimmune diseases. <i>Trends in Immunology</i> , 1994 , 15, 103-7 | | 191 |
| 416 | Concepts and principles of glycobiology. <i>FASEB Journal</i> , 1993 , 7, 1330-7 | 0.9 | 189 |
| 415 | Role of C-X-C chemokines as regulators of angiogenesis in lung cancer. <i>Journal of Leukocyte Biology</i> , 1995 , 57, 752-62 | 6.5 | 180 |
| 414 | Inhibition of enzymatic degradation of adhesive-dentin interfaces. <i>Journal of Dental Research</i> , 2009 , 88, 1101-6 | 8.1 | 178 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 413 | Gelatinase B is present in the cerebrospinal fluid during experimental autoimmune encephalomyelitis and cleaves myelin basic protein. <i>Journal of Neuroscience Research</i> , 1993 , 36, 432-40 | 4.4 | 174 |
| 412 | Leukocyte gelatinase B cleavage releases encephalitogens from human myelin basic protein. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 192, 1175-81 | 3.4 | 169 |
| 411 | Successful treatment of a squamous papilloma of the hypopharynx-esophagus by local injections of (S)-1-(3-hydroxy-2-phosphonyl-methoxypropyl)cytosine. <i>Journal of Medical Virology</i> , 1995 , 45, 230-5 | 19.7 | 165 |
| 410 | Matrix metalloproteinase expression in an experimentally-induced DTH model of multiple sclerosis in the rat CNS. <i>Journal of Neuroimmunology</i> , 1998 , 87, 62-72 | 3.5 | 161 |
| 409 | Cell-type-specific and site-specific N-glycosylation of type I and type II human tissue plasminogen activator. <i>Biochemistry</i> , 1989 , 28, 7644-62 | 3.2 | 161 |
| 408 | Interleukin 1 and poly(rI).poly(rC) induce production of a hybridoma growth factor by human fibroblasts. <i>European Journal of Immunology</i> , 1987 , 17, 1-7 | 6.1 | 161 |
| 407 | Identification of biologically active chemokine isoforms from ascitic fluid and elevated levels of CCL18/pulmonary and activation-regulated chemokine in ovarian carcinoma. <i>Journal of Biological Chemistry</i> , 2002 , 277, 24584-93 | 5.4 | 157 |
| 406 | Induction of a 26-kDa-protein mRNA in human cells treated with an interleukin-1-related, leukocyte-derived factor. <i>FEBS Journal</i> , 1985 , 152, 253-7 | | 152 |
| 405 | Crosstalk between sentinel and helper macrophages permits neutrophil migration into infected uroepithelium. <i>Cell</i> , 2014 , 156, 456-68 | 56.2 | 147 |
| 404 | Murine CXCR1 is a functional receptor for GCP-2/CXCL6 and interleukin-8/CXCL8. <i>Journal of Biological Chemistry</i> , 2007 , 282, 11658-66 | 5.4 | 147 |
| 403 | Neutrophils are indispensable for hematopoietic stem cell mobilization induced by interleukin-8 in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6228-33 | 11.5 | 147 |
| 402 | Citrullination of CXCL8 by peptidylarginine deiminase alters receptor usage, prevents proteolysis, and dampens tissue inflammation. <i>Journal of Experimental Medicine</i> , 2008 , 205, 2085-97 | 16.6 | 145 |
| 401 | The hemopexin and O-glycosylated domains tune gelatinase B/MMP-9 bioavailability via inhibition and binding to cargo receptors. <i>Journal of Biological Chemistry</i> , 2006 , 281, 18626-37 | 5.4 | 145 |
| 400 | Cytokines and proteases in invasive processes: molecular similarities between inflammation and cancer. <i>Cytokine</i> , 1992 , 4, 251-8 | 4 | 141 |
| 399 | Granulocyte-derived elastase and gelatinase B are required for dermal-epidermal separation induced by autoantibodies from patients with epidermolysis bullosa acquisita and bullous pemphigoid. <i>Journal of Pathology</i> , 2004 , 204, 519-27 | 9.4 | 140 |
| 398 | Oligosaccharide sequencing technology. <i>Nature</i> , 1997 , 388, 205-7 | 50.4 | 134 |
| 397 | Cleavage of denatured natural collagen type II by neutrophil gelatinase B reveals enzyme specificity, post-translational modifications in the substrate, and the formation of remnant epitopes in rheumatoid arthritis. <i>FASEB Journal</i> , 2002 , 16, 379-89 | 0.9 | 132 |
| 396 | Functional comparison of two human monocyte chemotactic protein-2 isoforms, role of the amino-terminal pyroglutamic acid and processing by CD26/dipeptidyl peptidase IV. <i>Biochemistry</i> , 1998 , 37, 12672-80 | 3.2 | 130 |

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| 395 | Expression of monocyte chemotactic protein (MCP)-1, MCP-2, and MCP-3 by human airway smooth-muscle cells. Modulation by corticosteroids and T-helper 2 cytokines. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1999 , 21, 528-36 | 5.7 | 130 |
| 394 | The chemotactic activity for granulocytes produced by virally infected fibroblasts is identical to monocyte-derived interleukin 8. <i>European Journal of Immunology</i> , 1989 , 19, 1189-94 | 6.1 | 128 |
| 393 | Matrix metalloproteinase-9 promotes chronic lymphocytic leukemia b cell survival through its hemopexin domain. <i>Cancer Cell</i> , 2010 , 17, 160-72 | 24.3 | 124 |
| 392 | Alpha4beta1 integrin and 190-kDa CD44v constitute a cell surface docking complex for gelatinase B/MMP-9 in chronic leukemic but not in normal B cells. <i>Blood</i> , 2008 , 112, 169-78 | 2.2 | 124 |
| 391 | The molecular basis of leukocytosis. <i>Trends in Immunology</i> , 1998 , 19, 182-9 | | 122 |
| 390 | 1;17 translocations and other chromosome 17 rearrangements in human primary neuroblastoma tumors and cell lines. <i>Genes Chromosomes and Cancer</i> , 1994 , 10, 103-14 | 5 | 122 |
| 389 | STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters. <i>Nature Communications</i> , 2020 , 11, 5838 | 17.4 | 122 |
| 388 | Hemopexin domains as multifunctional liganding modules in matrix metalloproteinases and other proteins. <i>Journal of Leukocyte Biology</i> , 2007 , 81, 870-92 | 6.5 | 121 |
| 387 | GCP-2/CXCL6 synergizes with other endothelial cell-derived chemokines in neutrophil mobilization and is associated with angiogenesis in gastrointestinal tumors. <i>Experimental Cell Research</i> , 2005 , 303, 331-42 | 4.2 | 121 |
| 386 | Focal MMP-2 and MMP-9 activity at the blood-brain barrier promotes chemokine-induced leukocyte migration. <i>Cell Reports</i> , 2015 , 10, 1040-54 | 10.6 | 119 |
| 385 | Truncation of macrophage-derived chemokine by CD26/ dipeptidyl-peptidase IV beyond its predicted cleavage site affects chemotactic activity and CC chemokine receptor 4 interaction. <i>Journal of Biological Chemistry</i> , 1999 , 274, 3988-93 | 5.4 | 117 |
| 384 | Anti-interferon-gamma antibody treatment, growth of Lewis lung tumours in mice and tumour-associated cachexia. <i>European Journal of Cancer & Clinical Oncology</i> , 1991 , 27, 182-7 | | 116 |
| 383 | Structure and Expression of Different Serum Amyloid A (SAA) Variants and their Concentration-Dependent Functions During Host Insults. <i>Current Medicinal Chemistry</i> , 2016 , 23, 1725-55 | 4.3 | 108 |
| 382 | Minocycline protects against permanent cerebral ischemia in wild type but not in matrix metalloprotease-9-deficient mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, 460-7 | 7.3 | 107 |
| 381 | Plasma and brain matrix metalloproteinase-9 after acute focal cerebral ischemia in rats. <i>Stroke</i> , 2009 , 40, 2836-42 | 6.7 | 103 |
| 380 | Insights into the structure and domain flexibility of full-length pro-matrix metalloproteinase-9/gelatinase B. <i>Structure</i> , 2007 , 15, 1227-36 | 5.2 | 103 |
| 379 | A YAC contig of the human CC chemokine genes clustered on chromosome 17q11.2. <i>Genomics</i> , 1996 , 34, 236-40 | 4.3 | 102 |
| 378 | Cytokine profiles in aqueous humor of patients with different clinical entities of endogenous uveitis. <i>Clinical Immunology</i> , 2011 , 139, 177-84 | 9 | 100 |

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| 377 | Endoscopic and histologic evidence of persistent mucosal healing and correlation with clinical improvement following sustained infliximab treatment for Crohn's disease. <i>Current Medical Research and Opinion</i> , 2005 , 21, 1741-54 | 2.5 | 100 |
| 376 | Human monocyte chemotactic protein-3 (MCP-3): molecular cloning of the cDNA and comparison with other chemokines. <i>Biochemical and Biophysical Research Communications</i> , 1993 , 191, 535-42 | 3.4 | 99 |
| 375 | Functional roles and therapeutic targeting of gelatinase B and chemokines in multiple sclerosis. <i>Lancet Neurology</i> , 2003 , 2, 747-56 | 24.1 | 94 |
| 374 | The gelatinase inhibitory activity of tetracyclines and chemically modified tetracycline analogues as measured by a novel microtiter assay for inhibitors. <i>Biochemical Pharmacology</i> , 1996 , 52, 105-11 | 6 | 94 |
| 373 | Neutrophil MMP-9 proenzyme, unencumbered by TIMP-1, undergoes efficient activation in vivo and catalytically induces angiogenesis via a basic fibroblast growth factor (FGF-2)/FGFR-2 pathway. <i>Journal of Biological Chemistry</i> , 2009 , 284, 25854-66 | 5.4 | 92 |
| 372 | Glycosylation of natural human neutrophil gelatinase B and neutrophil gelatinase B-associated lipocalin. <i>Biochemistry</i> , 1999 , 38, 13937-50 | 3.2 | 92 |
| 371 | Constitutional translocation t(1;17)(p36;q12-21) in a patient with neuroblastoma. <i>Genes Chromosomes and Cancer</i> , 1990 , 2, 252-4 | 5 | 90 |
| 370 | Microbial Toll-like receptor ligands differentially regulate CXCL10/IP-10 expression in fibroblasts and mononuclear leukocytes in synergy with IFN-gamma and provide a mechanism for enhanced synovial chemokine levels in septic arthritis. <i>European Journal of Immunology</i> , 2003 , 33, 3146-53 | 6.1 | 88 |
| 369 | Carboxyterminal cleavage of the chemokines MIG and IP-10 by gelatinase B and neutrophil collagenase. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 310, 889-96 | 3.4 | 87 |
| 368 | Gelatinase B/matrix metalloproteinase-9 cleaves interferon-beta and is a target for immunotherapy. <i>Brain</i> , 2003 , 126, 1371-81 | 11.2 | 87 |
| 367 | The effects of variable glycosylation on the functional activities of ribonuclease, plasminogen and tissue plasminogen activator. <i>BBA - Proteins and Proteomics</i> , 1995 , 1248, 1-10 | | 87 |
| 366 | Granulocyte chemotactic protein-2 and related CXC chemokines: from gene regulation to receptor usage. <i>Journal of Leukocyte Biology</i> , 1997 , 62, 563-9 | 6.5 | 85 |
| 365 | CXCR3 determines strain susceptibility to murine cerebral malaria by mediating T lymphocyte migration toward IFN-gamma-induced chemokines. <i>European Journal of Immunology</i> , 2008 , 38, 1082-95 | 6.1 | 85 |
| 364 | TLR ligands and cytokines induce CXCR3 ligands in endothelial cells: enhanced CXCL9 in autoimmune arthritis. <i>Laboratory Investigation</i> , 2006 , 86, 902-16 | 5.9 | 82 |
| 363 | Immunopathology and dexamethasone therapy in a new model for malaria-associated acute respiratory distress syndrome. <i>Malaria Journal</i> , 2010 , 9, | 3.6 | 78 |
| 362 | The CXC chemokine GCP-2/CXCL6 is predominantly induced in mesenchymal cells by interleukin-1beta and is down-regulated by interferon-gamma: comparison with interleukin-8/CXCL8. <i>Laboratory Investigation</i> , 2003 , 83, 23-34 | 5.9 | 78 |
| 361 | Chemotactic factors, passive invasion and metastasis of cancer cells. <i>Trends in Immunology</i> , 1992 , 13, 463-4 | | 78 |
| 360 | Simultaneous production of interleukin 6, interferon-beta and colony-stimulating activity by fibroblasts after viral and bacterial infection. <i>European Journal of Immunology</i> , 1989 , 19, 163-8 | 6.1 | 78 |

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| 359 | Angiostatic and chemotactic activities of the CXC chemokine CXCL4L1 (platelet factor-4 variant) are mediated by CXCR3. <i>Blood</i> , 2011 , 117, 480-8 | 2.2 | 77 |
| 358 | O-glycan analysis of natural human neutrophil gelatinase B using a combination of normal phase-HPLC and online tandem mass spectrometry: implications for the domain organization of the enzyme. <i>Biochemistry</i> , 2000 , 39, 15695-704 | 3.2 | 77 |
| 357 | Immunopathology and dexamethasone therapy in a new model for malaria-associated acute respiratory distress syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010 , 181, 957-68 | 10.2 | 76 |
| 356 | Monoclonal antibodies specific for natural human neutrophil gelatinase B used for affinity purification, quantitation by two-site ELISA and inhibition of enzymatic activity. <i>FEBS Journal</i> , 1995 , 234, 759-65 | | 76 |
| 355 | Matrix metalloproteinases as therapeutic targets in protozoan parasitic infections. <i>Pharmacology & Therapeutics</i> , 2012 , 133, 257-79 | 13.9 | 75 |
| 354 | Gelatinase B deficiency protects against endotoxin shock. <i>European Journal of Immunology</i> , 2002 , 32, 2163-71 | 6.1 | 75 |
| 353 | Mouse gelatinase B. cDNA cloning, regulation of expression and glycosylation in WEHI-3 macrophages and gene organisation. <i>FEBS Journal</i> , 1993 , 218, 129-41 | | 75 |
| 352 | Enzymatic degradation of adhesive-dentin interfaces produced by mild self-etch adhesives. <i>European Journal of Oral Sciences</i> , 2010 , 118, 494-501 | 2.3 | 74 |
| 351 | Matrix remodelling enzymes, the protease cascade and glycosylation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001 , 1528, 61-73 | 4 | 74 |
| 350 | A single-dose live-attenuated YF17D-vectored SARS-CoV-2 vaccine candidate. <i>Nature</i> , 2021 , 590, 320-325 | 50.4 | 74 |
| 349 | Chemokines synergize in the recruitment of circulating neutrophils into inflamed tissue. <i>European Journal of Immunology</i> , 2005 , 35, 1583-91 | 6.1 | 73 |
| 348 | Proteases in cancer drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2016 , 97, 144-55 | 18.5 | 71 |
| 347 | Multidimensional degradomics identifies systemic autoantigens and intracellular matrix proteins as novel gelatinase B/MMP-9 substrates. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 404-26 | 3.7 | 71 |
| 346 | Synergistic induction of CXCL9 and CXCL11 by Toll-like receptor ligands and interferon-gamma in fibroblasts correlates with elevated levels of CXCR3 ligands in septic arthritis synovial fluids. <i>Journal of Leukocyte Biology</i> , 2004 , 75, 777-84 | 6.5 | 70 |
| 345 | Imaging matrix metalloproteinase activity in multiple sclerosis as a specific marker of leukocyte penetration of the blood-brain barrier. <i>Science Translational Medicine</i> , 2016 , 8, 364ra152 | 17.5 | 68 |
| 344 | Human and bovine granulocyte chemotactic protein-2: complete amino acid sequence and functional characterization as chemokines. <i>Biochemistry</i> , 1993 , 32, 10170-7 | 3.2 | 68 |
| 343 | Hemozoin induces lung inflammation and correlates with malaria-associated acute respiratory distress syndrome. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 48, 589-600 | 5.7 | 66 |
| 342 | A monoclonal antibody inhibits gelatinase B/MMP-9 by selective binding to part of the catalytic domain and not to the fibronectin or zinc binding domains. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007 , 1770, 178-86 | 4 | 66 |

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| 341 | Tumor angiogenesis induced by granulocyte chemotactic protein-2 as a countercurrent principle. <i>American Journal of Pathology</i> , 2001 , 159, 1405-14 | 5.8 | 66 |
| 340 | Cells regulate the activities of cytokines by glycosylation. <i>FASEB Journal</i> , 1995 , 9, 453-7 | 0.9 | 66 |
| 339 | Human hepatoma cells produce an 85 kDa gelatinase regulated by phorbol 12-myristate 13-acetate. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1990 , 1054, 317-25 | 4.9 | 66 |
| 338 | The immunological balance between host and parasite in malaria. <i>FEMS Microbiology Reviews</i> , 2016 , 40, 208-57 | 15.1 | 65 |
| 337 | PARC/CCL18 is a plasma CC chemokine with increased levels in childhood acute lymphoblastic leukemia. <i>American Journal of Pathology</i> , 2003 , 163, 2065-75 | 5.8 | 65 |
| 336 | Synergistic induction of MCP-1 and -2 by IL-1beta and interferons in fibroblasts and epithelial cells. <i>Journal of Leukocyte Biology</i> , 1998 , 63, 364-72 | 6.5 | 62 |
| 335 | High-resolution fluorescence mapping of 46 DNA markers to the short arm of human chromosome 1. <i>Genomics</i> , 1993 , 18, 71-8 | 4.3 | 62 |
| 334 | Biology of IL-8-induced stem cell mobilization. <i>Annals of the New York Academy of Sciences</i> , 1999 , 872, 71-82 | 6.5 | 61 |
| 333 | Evaluation of gelatinases and IL-6 in the cerebrospinal fluid of patients with optic neuritis, multiple sclerosis and other inflammatory neurological diseases. <i>European Journal of Neurology</i> , 1994 , 1, 55-63 | 6 | 61 |
| 332 | Cidofovir resistance in vaccinia virus is linked to diminished virulence in mice. <i>Journal of Virology</i> , 2006 , 80, 9391-401 | 6.6 | 60 |
| 331 | In vivo neutrophil recruitment by granulocyte chemotactic protein-2 is assisted by gelatinase B/MMP-9 in the mouse. <i>Journal of Interferon and Cytokine Research</i> , 2000 , 20, 667-74 | 3.5 | 60 |
| 330 | Direct visualization of protease action on collagen triple helical structure. <i>PLoS ONE</i> , 2010 , 5, e11043 | 3.7 | 59 |
| 329 | Gelatinase B deficiency impairs reproduction. <i>Journal of Clinical Investigation</i> , 2000 , 106, 627-8 | 15.9 | 58 |
| 328 | Pathogenesis of malaria-associated acute respiratory distress syndrome. <i>Trends in Parasitology</i> , 2013 , 29, 346-58 | 6.4 | 57 |
| 327 | Matrix metalloproteinases, tissue inhibitors of MMPs and TACE in experimental cerebral malaria. <i>Laboratory Investigation</i> , 2006 , 86, 873-88 | 5.9 | 57 |
| 326 | Chemokine-protease interactions in cancer. <i>Seminars in Cancer Biology</i> , 2004 , 14, 201-8 | 12.7 | 56 |
| 325 | Differential induction of monocyte chemotactic protein-3 in mononuclear leukocytes and fibroblasts by interferon-alpha/beta and interferon-gamma reveals MCP-3 heterogeneity. <i>European Journal of Immunology</i> , 1999 , 29, 678-85 | 6.1 | 55 |
| 324 | Interferons as gene activators: a cluster of six interferon-activatable genes is linked to the erythroid alpha-spectrin locus on murine chromosome 1. <i>Virology</i> , 1989 , 171, 568-78 | 3.6 | 55 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 323 | Myofibroblasts in proliferative diabetic retinopathy can originate from infiltrating fibrocytes and through endothelial-to-mesenchymal transition (EndoMT). <i>Experimental Eye Research</i> , 2015 , 132, 179-89 | 3.7 | 54 |
| 322 | Transduction of human MCP-3 by a parvoviral vector induces leukocyte infiltration and reduces growth of human cervical carcinoma cell xenografts. <i>Journal of Gene Medicine</i> , 2001 , 3, 326-37 | 3.5 | 54 |
| 321 | Human papillomavirus type 13 and pygmy chimpanzee papillomavirus type 1: comparison of the genome organizations. <i>Virology</i> , 1992 , 190, 587-96 | 3.6 | 54 |
| 320 | Analysis of gelatinases in complex biological fluids and tissue extracts. <i>Laboratory Investigation</i> , 2002 , 82, 1607-8 | 5.9 | 53 |
| 319 | Interleukin 1 preferentially stimulates the production of tissue-type plasminogen activator by human articular chondrocytes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987 , 924, 473-82 | 4 | 53 |
| 318 | Resistance of herpes simplex virus type 1 against different phosphonylmethoxyalkyl derivatives of purines and pyrimidines due to specific mutations in the viral DNA polymerase gene. <i>Journal of General Virology</i> , 2000 , 81, 639-48 | 4.9 | 53 |
| 317 | Endothelial Response to Glucocorticoids in Inflammatory Diseases. <i>Frontiers in Immunology</i> , 2016 , 7, 592 | 8.4 | 52 |
| 316 | Beta-hematin interaction with the hemopexin domain of gelatinase B/MMP-9 provokes autocatalytic processing of the propeptide, thereby priming activation by MMP-3. <i>Biochemistry</i> , 2008 , 47, 2689-99 | 3.2 | 51 |
| 315 | Avian papillomaviruses: the parrot <i>Psittacus erithacus</i> papillomavirus (PePV) genome has a unique organization of the early protein region and is phylogenetically related to the chaffinch papillomavirus. <i>BMC Microbiology</i> , 2002 , 2, 19 | 4.5 | 51 |
| 314 | Relationship between vitreous levels of matrix metalloproteinases and vascular endothelial growth factor in proliferative diabetic retinopathy. <i>PLoS ONE</i> , 2013 , 8, e85857 | 3.7 | 51 |
| 313 | Gelatin degradation assay reveals MMP-9 inhibitors and function of O-glycosylated domain. <i>World Journal of Biological Chemistry</i> , 2011 , 2, 14-24 | 3.8 | 51 |
| 312 | The countercurrent principle in invasion and metastasis of cancer cells. Recent insights on the roles of chemokines. <i>International Journal of Developmental Biology</i> , 2004 , 48, 519-27 | 1.9 | 49 |
| 311 | Selective induction of CCL18/PARC by staphylococcal enterotoxins in mononuclear cells and enhanced levels in septic and rheumatoid arthritis. <i>European Journal of Immunology</i> , 2001 , 31, 3755-62 | 6.1 | 49 |
| 310 | Effect of catechins and citrus flavonoids on invasion in vitro. <i>Clinical and Experimental Metastasis</i> , 1991 , 9, 13-25 | 4.7 | 49 |
| 309 | Serum amyloid A chemoattracts immature dendritic cells and indirectly provokes monocyte chemotaxis by induction of cooperating CC and CXC chemokines. <i>European Journal of Immunology</i> , 2015 , 45, 101-12 | 6.1 | 47 |
| 308 | Chemokine isoforms and processing in inflammation and immunity. <i>Journal of Autoimmunity</i> , 2017 , 85, 45-57 | 15.5 | 47 |
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