

Carlos Lopez-Otin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

417
papers

70,028
citations

105
h-index

260
g-index

437
ext. papers

82,406
ext. citations

11.5
avg, IF

8.1
L-index

#	Paper	IF	Citations
417	ATG4D is the main ATG8 delipidating enzyme in mammalian cells and protects against cerebellar neurodegeneration. <i>Cell Death and Differentiation</i> , 2021 , 28, 2651-2672	12.7	2
416	Old Paradoxes and New Opportunities for Appetite Control in Obesity. <i>Trends in Endocrinology and Metabolism</i> , 2021 , 32, 264-294	8.8	7
415	Hallmarks of Health. <i>Cell</i> , 2021 , 184, 33-63	56.2	94
414	Autophagy in major human diseases. <i>EMBO Journal</i> , 2021 , 40, e108863	13	79
413	Circulating tumor cells for comprehensive and multiregional non-invasive genetic characterization of multiple myeloma. <i>Leukemia</i> , 2020 , 34, 3007-3018	10.7	7
412	Ubiquitin-specific proteases as targets for anticancer drug therapies 2020 , 73-120		1
411	Pan-cancer analysis of whole genomes. <i>Nature</i> , 2020 , 578, 82-93	50.4	840
410	Loss of mitochondrial ClpP, Lonp1, and Tfam triggers transcriptional induction of Rnf213, a susceptibility factor for moyamoya disease. <i>Neurogenetics</i> , 2020 , 21, 187-203	3	6
409	Mitochondrial Safeguard: a stress response that offsets extreme fusion and protects respiratory function via flickering-induced Oma1 activation. <i>EMBO Journal</i> , 2020 , 39, e105074	13	5
408	Immunosuppression by Mutated Calreticulin Released from Malignant Cells. <i>Molecular Cell</i> , 2020 , 77, 748-760.e9	17.6	45
407	Identification of common cardiometabolic alterations and deregulated pathways in mouse and pig models of aging. <i>Aging Cell</i> , 2020 , 19, e13203	9.9	6
406	The proliferative history shapes the DNA methylome of B-cell tumors and predicts clinical outcome. <i>Nature Cancer</i> , 2020 , 1, 1066-1081	15.4	11
405	Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples. <i>Nature Communications</i> , 2020 , 11, 4748	17.4	10
404	Sex differences in oncogenic mutational processes. <i>Nature Communications</i> , 2020 , 11, 4330	17.4	23
403	Cross-reactivity between tumor MHC class I-restricted antigens and an enterococcal bacteriophage. <i>Science</i> , 2020 , 369, 936-942	33.3	74
402	Partial Loss of USP9X Function Leads to a Male Neurodevelopmental and Behavioral Disorder Converging on Transforming Growth Factor β Signaling. <i>Biological Psychiatry</i> , 2020 , 87, 100-112	7.9	19
401	The U1 spliceosomal RNA is recurrently mutated in multiple cancers. <i>Nature</i> , 2019 , 574, 712-716	50.4	79

390	Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. <i>Cell Research</i> , 2019 , 29, 804-819	24.7	26
399	Global Proteome of Mouse Embryonal Fibroblasts Reveals Impact on Respiratory Chain, but No Interdependence between Era1 and Mitochondria. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
398	Decelerating ageing and biological clocks by autophagy. <i>Nature Reviews Molecular Cell Biology</i> , 2019 , 20, 385-386	48.7	16
397	Moving Frailty Toward Clinical Practice: NIA Intramural Frailty Science Symposium Summary. <i>Journal of the American Geriatrics Society</i> , 2019 , 67, 1559-1564	5.6	74
396	Progerin accelerates atherosclerosis by inducing endoplasmic reticulum stress in vascular smooth muscle cells. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	47
395	Insight into genetic predisposition to chronic lymphocytic leukemia from integrative epigenomics. <i>Nature Communications</i> , 2019 , 10, 3615	17.4	19
394	Acyl-CoA-Binding Protein Is a Lipogenic Factor that Triggers Food Intake and Obesity. <i>Cell Metabolism</i> , 2019 , 30, 754-767.e9	24.6	40
393	Remodeling of Bone Marrow Hematopoietic Stem Cell Niches Promotes Myeloid Cell Expansion during Premature or Physiological Aging. <i>Cell Stem Cell</i> , 2019 , 25, 407-418.e6	18	114
392	Healthspan and lifespan extension by fecal microbiota transplantation into progeroid mice. <i>Nature Medicine</i> , 2019 , 25, 1234-1242	50.5	164
391	Differential mechanisms of tolerance to extreme environmental conditions in tardigrades. <i>Scientific Reports</i> , 2019 , 9, 14938	4.9	6
390	Circulating Tumor Cells (CTCs) for Comprehensive and Multiregional Non-Invasive Genetic Characterization of Multiple Myeloma (MM). <i>Blood</i> , 2019 , 134, 3064-3064	2.2	1
389	Development of a CRISPR/Cas9-based therapy for Hutchinson-Gilford progeria syndrome. <i>Nature Medicine</i> , 2019 , 25, 423-426	50.5	62
388	Association of the POT1 Germline Missense Variant p.I78T With Familial Melanoma. <i>JAMA Dermatology</i> , 2019 , 155, 604-609	5.1	15
387	and hijack immunoglobulin light-chain enhancers in cyclin D1 mantle cell lymphoma. <i>Blood</i> , 2019 , 133, 940-951	2.2	48
386	Mitochondrial LonP1 protects cardiomyocytes from ischemia/reperfusion injury in vivo. <i>Journal of Molecular and Cellular Cardiology</i> , 2019 , 128, 38-50	5.8	34
385	Genome Sequencing and Analysis Methods in Chronic Lymphocytic Leukemia. <i>Methods in Molecular Biology</i> , 2019 , 1881, 319-325	1.4	
384	Methionine restriction for improving progeria: another autophagy-inducing anti-aging strategy?. <i>Autophagy</i> , 2019 , 15, 558-559	10.2	12
383	Giant tortoise genomes provide insights into longevity and age-related disease. <i>Nature Ecology and Evolution</i> , 2019 , 3, 87-95	12.3	43

382	Mutations in the RAS-BRAF-MAPK-ERK pathway define a specific subgroup of patients with adverse clinical features and provide new therapeutic options in chronic lymphocytic leukemia. <i>Haematologica</i> , 2019 , 104, 576-586	6.6	28
381	Changes at the nuclear lamina alter binding of pioneer factor Foxa2 in aged liver. <i>Aging Cell</i> , 2018 , 17, e12742	9.9	14
380	Vascular Smooth Muscle-Specific Progerin Expression Accelerates Atherosclerosis and Death in a Mouse Model of Hutchinson-Gilford Progeria Syndrome. <i>Circulation</i> , 2018 , 138, 266-282	16.7	61
379	Matriptase-2 deficiency protects from obesity by modulating iron homeostasis. <i>Nature Communications</i> , 2018 , 9, 1350	17.4	17
378	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , 2018 , 25, 486-541	12.7	2160
377	Loss of the deubiquitinase USP36 destabilizes the RNA helicase DHX33 and causes preimplantation lethality in mice. <i>Journal of Biological Chemistry</i> , 2018 , 293, 2183-2194	5.4	16
376	Ablation of the stress protease OMA1 protects against heart failure in mice. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	41
375	Clinical impact of the subclonal architecture and mutational complexity in chronic lymphocytic leukemia. <i>Leukemia</i> , 2018 , 32, 645-653	10.7	64
374	The Relevance of Induced Pluripotent Stem Cells for the Study of Physiological and Premature Aging 2018 , 311-334		
373	Methionine Restriction Extends Lifespan in Progeroid Mice and Alters Lipid and Bile Acid Metabolism. <i>Cell Reports</i> , 2018 , 24, 2392-2403	10.6	72
372	Progeria Mouse Models 2018 , 689-701		2
371	Prelamin A causes aberrant myonuclear arrangement and results in muscle fiber weakness. <i>JCI Insight</i> , 2018 , 3,	9.9	9
370	Aging of Bone Marrow Microenvironment Promotes Myeloid Bias of Hematopoietic Progenitors and Is a Target in Age-Related Myeloproliferative Neoplasms. <i>Blood</i> , 2018 , 132, 3842-3842	2.2	2
369	An Epigenetic Mitotic Score Tracks the Proliferative History and Capacity of CLL Samples at Diagnosis and Is Associated with Clinical Outcome. <i>Blood</i> , 2018 , 132, 1842-1842	2.2	
368	The mutational landscape of small lymphocytic lymphoma compared to non-early stage chronic lymphocytic leukemia. <i>Leukemia and Lymphoma</i> , 2018 , 59, 2318-2326	1.9	2
367	The microRNA-29/PGC1 β regulatory axis is critical for metabolic control of cardiac function. <i>PLoS Biology</i> , 2018 , 16, e2006247	9.7	22
366	Specific combinations of biallelic variants cause Wiedemann-Rautenstrauch syndrome. <i>Journal of Medical Genetics</i> , 2018 , 55, 837-846	5.8	31
365	Carbotoxicity-Noxious Effects of Carbohydrates. <i>Cell</i> , 2018 , 175, 605-614	56.2	57

364	Altered patterns of global protein synthesis and translational fidelity in RPS15-mutated chronic lymphocytic leukemia. <i>Blood</i> , 2018 , 132, 2375-2388	2.2	31
363	Mouse Models to Disentangle the Hallmarks of Human Aging. <i>Circulation Research</i> , 2018 , 123, 905-924	15.7	44
362	The reference epigenome and regulatory chromatin landscape of chronic lymphocytic leukemia. <i>Nature Medicine</i> , 2018 , 24, 868-880	50.5	103
361	USP39 Deubiquitinase Is Essential for Oncogene-driven Cancer. <i>Journal of Biological Chemistry</i> , 2017 , 292, 4164-4175	5.4	25
360	Functional relevance of miRNAs in premature ageing. <i>Mechanisms of Ageing and Development</i> , 2017 , 168, 10-19	5.6	7
359	The role of matrix metalloproteinases in aging: Tissue remodeling and beyond. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 2015-2025	4.9	94
358	Molecular definitions of autophagy and related processes. <i>EMBO Journal</i> , 2017 , 36, 1811-1836	13	857
357	A single-copy Sleeping Beauty transposon mutagenesis screen identifies new PTEN-cooperating tumor suppressor genes. <i>Nature Genetics</i> , 2017 , 49, 730-741	36.3	34
356	Clonal evolution in leukemia. <i>Nature Medicine</i> , 2017 , 23, 1135-1145	50.5	66
355	A fruitful liaison of ZSCAN10 and ROS on the road to rejuvenation. <i>Nature Cell Biology</i> , 2017 , 19, 1012-1024	13.4	2
354	Physiological and Pathological Functions of Mitochondrial Proteases 2017 , 3-25		3
353	Functional Relevance of Deubiquitinases in Life and Disease 2017 , 355-382		1
352	Autophagy counteracts weight gain, lipotoxicity and pancreatic β cell death upon hypercaloric pro-diabetic regimens. <i>Cell Death and Disease</i> , 2017 , 8, e2970	9.8	53
351	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. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2017 , 1864, 2210-2219	4.9	25
350	Tagged ATG8-Coding Constructs for the In Vitro and In Vivo Assessment of ATG4 Activity. <i>Methods in Enzymology</i> , 2017 , 587, 189-205	1.7	3
349	Immune and inflammatory responses to DNA damage in cancer and aging. <i>Mechanisms of Ageing and Development</i> , 2017 , 165, 10-16	5.6	20
348	The Novel Evolution of the Sperm Whale Genome. <i>Genome Biology and Evolution</i> , 2017 , 9, 3260-3264	3.9	27
347	Genetic Predisposition to Chronic Lymphocytic Leukemia Is Mediated by a BMF Super-Enhancer Polymorphism. <i>Cell Reports</i> , 2016 , 16, 2061-2067	10.6	42

346	Age-driven developmental drift in the pathogenesis of idiopathic pulmonary fibrosis. <i>European Respiratory Journal</i> , 2016 , 48, 538-52	13.6	74
345	Hallmarks of progeroid syndromes: lessons from mice and reprogrammed cells. <i>DMM Disease Models and Mechanisms</i> , 2016 , 9, 719-35	4.1	76
344	Cardiac electrical defects in progeroid mice and Hutchinson-Gilford progeria syndrome patients with nuclear lamina alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7250-E7259	11.5	34
343	NF- κ B signaling as a driver of ageing. <i>International Review of Cell and Molecular Biology</i> , 2016 , 326, 133-746		45
342	MMP-25 Metalloprotease Regulates Innate Immune Response through NF- κ B Signaling. <i>Journal of Immunology</i> , 2016 , 197, 296-302	5.3	24
341	iPSCs: On the Road to Reprogramming Aging. <i>Trends in Molecular Medicine</i> , 2016 , 22, 713-724	11.5	36
340	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
339	Loss of OMA1 delays neurodegeneration by preventing stress-induced OPA1 processing in mitochondria. <i>Journal of Cell Biology</i> , 2016 , 212, 157-66	7.3	84
338	Pharmacogenetics and pharmacogenomics as tools in cancer therapy. <i>Drug Metabolism and Personalized Therapy</i> , 2016 , 31, 25-34	2	18
337	Loss of the proteostasis factor AIRAPL causes myeloid transformation by deregulating IGF-1 signaling. <i>Nature Medicine</i> , 2016 , 22, 91-6	50.5	24
336	Chronic lymphocytic leukemia: looking into the dark side of the genome. <i>Cell Death and Differentiation</i> , 2016 , 23, 7-9	12.7	2
335	Interruption of progerin-lamin A/C binding ameliorates Hutchinson-Gilford progeria syndrome phenotype. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3879-3893	15.9	54
334	Barrier-to-autointegration factor (BAF) involvement in prelamin A-related chromatin organization changes. <i>Oncotarget</i> , 2016 , 7, 15662-77	3.3	35
333	Loss of OMA1 delays neurodegeneration by preventing stress-induced OPA1 processing in mitochondria. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2132OIA1	16.6	
332	Non-coding recurrent mutations in chronic lymphocytic leukaemia. <i>Nature</i> , 2016 , 534, S11-S12	50.4	0
331	Novel mutations cause an aggressive atypical neonatal progeria without progerin accumulation. <i>Journal of Medical Genetics</i> , 2016 , 53, 776-785	5.8	14
330	A genome-wide association scan in admixed Latin Americans identifies loci influencing facial and scalp hair features. <i>Nature Communications</i> , 2016 , 7, 10815	17.4	108
329	Extreme genomic erosion after recurrent demographic bottlenecks in the highly endangered Iberian lynx. <i>Genome Biology</i> , 2016 , 17, 251	18.3	85

328	Proteostasis alterations in myeloproliferative neoplasms: Oncogenic relevance and therapeutic opportunities. <i>Experimental Hematology</i> , 2016 , 44, 574-7	3.1	3
327	Congenital dilated cardiomyopathy caused by biallelic mutations in Filamin C. <i>European Journal of Human Genetics</i> , 2016 , 24, 1792-1796	5.3	28
326	Clinical impact of clonal and subclonal TP53, SF3B1, BIRC3, NOTCH1, and ATM mutations in chronic lymphocytic leukemia. <i>Blood</i> , 2016 , 127, 2122-30	2.2	188
325	Metabolic Control of Longevity. <i>Cell</i> , 2016 , 166, 802-821	56.2	429
324	Nonsense mutations in the shelterin complex genes ACD and TERF2IP in familial melanoma. <i>Journal of the National Cancer Institute</i> , 2015 , 107,	9.7	102
323	NF- κ B activation impairs somatic cell reprogramming in ageing. <i>Nature Cell Biology</i> , 2015 , 17, 1004-13	23.4	80
322	Non-coding recurrent mutations in chronic lymphocytic leukaemia. <i>Nature</i> , 2015 , 526, 519-24	50.4	565
321	Essential role for the ATG4B protease and autophagy in bleomycin-induced pulmonary fibrosis. <i>Autophagy</i> , 2015 , 11, 670-84	10.2	95
320	New roles for mitochondrial proteases in health, ageing and disease. <i>Nature Reviews Molecular Cell Biology</i> , 2015 , 16, 345-59	48.7	333
319	ADAMTS proteases and cancer. <i>Matrix Biology</i> , 2015 , 44-46, 77-85	11.4	79
318	A critical role for murine transferrin receptor 2 in erythropoiesis during iron restriction. <i>British Journal of Haematology</i> , 2015 , 168, 891-901	4.5	25
317	The β -secretase inhibitor PF-03084014 combined with fludarabine antagonizes migration, invasion and angiogenesis in NOTCH1-mutated CLL cells. <i>Leukemia</i> , 2015 , 29, 96-106	10.7	51
316	A B-cell epigenetic signature defines three biologic subgroups of chronic lymphocytic leukemia with clinical impact. <i>Leukemia</i> , 2015 , 29, 598-605	10.7	92
315	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , 2015 , 22, 58-73	12.7	643
314	Molecular mechanisms of normal and pathological aging. <i>Orphanet Journal of Rare Diseases</i> , 2015 , 10,	4.2	78
313	Mutations in CHD2 cause defective association with active chromatin in chronic lymphocytic leukemia. <i>Blood</i> , 2015 , 126, 195-202	2.2	38
312	Nuclear DICKKOPF-1 as a biomarker of chemoresistance and poor clinical outcome in colorectal cancer. <i>Oncotarget</i> , 2015 , 6, 5903-17	3.3	26
311	Loss of MT1-MMP causes cell senescence and nuclear defects which can be reversed by retinoic acid. <i>EMBO Journal</i> , 2015 , 34, 1875-88	13	54

310	The functional and pathologic relevance of autophagy proteases. <i>Journal of Clinical Investigation</i> , 2015 , 125, 33-41	15.9	70
309	Molecular pathogenesis of CLL and its evolution. <i>International Journal of Hematology</i> , 2015 , 101, 219-28	2.3	16
308	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , 2015 , 6, 10001	17.4	199
307	Regulatory Roles of miRNAs in Aging. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 887, 213-30	3.6	10
306	Insights into the evolution of longevity from the bowhead whale genome. <i>Cell Reports</i> , 2015 , 10, 112-22	10.6	203
305	Clinical Impact of Clonal and Subclonal TP53, SF3B1, BIRC3, and ATM Mutations in Chronic Lymphocytic Leukemia. <i>Blood</i> , 2015 , 126, 4138-4138	2.2	1
304	The splicing modulator sudemycin induces a specific antitumor response and cooperates with ibrutinib in chronic lymphocytic leukemia. <i>Oncotarget</i> , 2015 , 6, 22734-49	3.3	49
303	Progeria: a paradigm for translational medicine. <i>Cell</i> , 2014 , 156, 400-7	56.2	165
302	POT1 loss-of-function variants predispose to familial melanoma. <i>Nature Genetics</i> , 2014 , 46, 478-481	36.3	241
301	Regulation of autophagy by cytosolic acetyl-coenzyme A. <i>Molecular Cell</i> , 2014 , 53, 710-25	17.6	331
300	The miR-424(322)/503 cluster orchestrates remodeling of the epithelium in the involuting mammary gland. <i>Genes and Development</i> , 2014 , 28, 765-82	12.6	52
299	Matrix metalloprotease 1a deficiency suppresses tumor growth and angiogenesis. <i>Oncogene</i> , 2014 , 33, 2264-72	9.2	32
298	Mutations in filamin C cause a new form of familial hypertrophic cardiomyopathy. <i>Nature Communications</i> , 2014 , 5, 5326	17.4	109
297	Transcriptome characterization by RNA sequencing identifies a major molecular and clinical subdivision in chronic lymphocytic leukemia. <i>Genome Research</i> , 2014 , 24, 212-26	9.7	143
296	Comprehensive characterization of complex structural variations in cancer by directly comparing genome sequence reads. <i>Nature Biotechnology</i> , 2014 , 32, 1106-12	44.5	62
295	Mutations in TLR/MYD88 pathway identify a subset of young chronic lymphocytic leukemia patients with favorable outcome. <i>Blood</i> , 2014 , 123, 3790-6	2.2	82
294	The common marmoset genome provides insight into primate biology and evolution. <i>Nature Genetics</i> , 2014 , 46, 850-7	36.3	179
293	ATP-dependent Lon protease controls tumor bioenergetics by reprogramming mitochondrial activity. <i>Cell Reports</i> , 2014 , 8, 542-56	10.6	133

292	Exome sequencing identifies a novel mutation in PIK3R1 as the cause of SHORT syndrome. <i>BMC Medical Genetics</i> , 2014 , 15, 51	2.1	26
291	MT5-MMP regulates adult neural stem cell functional quiescence through the cleavage of N-cadherin. <i>Nature Cell Biology</i> , 2014 , 16, 629-38	23.4	64
290	Matriptase-2 is essential for hepcidin repression during fetal life and postnatal development in mice to maintain iron homeostasis. <i>Blood</i> , 2014 , 124, 441-4	2.2	20
289	Nuclear envelope lamin-A couples actin dynamics with immunological synapse architecture and T cell activation. <i>Science Signaling</i> , 2014 , 7, ra37	8.8	52
288	Lon protease: A key enzyme controlling mitochondrial bioenergetics in cancer. <i>Molecular and Cellular Oncology</i> , 2014 , 1, e968505	1.2	10
287	The prognostic impact of minimal residual disease in patients with chronic lymphocytic leukemia requiring first-line therapy. <i>Haematologica</i> , 2014 , 99, 873-80	6.6	28
286	OMA1 mediates OPA1 proteolysis and mitochondrial fragmentation in experimental models of ischemic kidney injury. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, F1318-26	4.3	72
285	Exosomes and autophagy: coordinated mechanisms for the maintenance of cellular fitness. <i>Frontiers in Immunology</i> , 2014 , 5, 403	8.4	275
284	The anti-metastatic activity of collagenase-2 in breast cancer cells is mediated by a signaling pathway involving decorin and miR-21. <i>Oncogene</i> , 2014 , 33, 3054-63	9.2	56
283	Functional Relevance of Autophagins in Life and Disease 2014 , 111-119		
282	Frequent somatic mutations in components of the RNA processing machinery in chronic lymphocytic leukemia. <i>Leukemia</i> , 2013 , 27, 1600-3	10.7	26
281	The genomic landscape of chronic lymphocytic leukemia: clinical implications. <i>BMC Medicine</i> , 2013 , 11, 124	11.4	26
280	Signatures of mutational processes in human cancer. <i>Nature</i> , 2013 , 500, 415-21	50.4	5895
279	Matriptase-2 2013 , 2975-2983		
278	Identification of mitochondrial dysfunction in Hutchinson-Gilford progeria syndrome through use of stable isotope labeling with amino acids in cell culture. <i>Journal of Proteomics</i> , 2013 , 91, 466-77	3.9	79
277	Supercomplex assembly determines electron flux in the mitochondrial electron transport chain. <i>Science</i> , 2013 , 340, 1567-70	33.3	528
276	Recurrent gene mutations in CLL. <i>Advances in Experimental Medicine and Biology</i> , 2013 , 792, 87-107	3.6	6
275	Next-generation sequencing in chronic lymphocytic leukemia. <i>Seminars in Hematology</i> , 2013 , 50, 286-95	4	14

274	Defective extracellular pyrophosphate metabolism promotes vascular calcification in a mouse model of Hutchinson-Gilford progeria syndrome that is ameliorated on pyrophosphate treatment. <i>Circulation</i> , 2013 , 127, 2442-51	16.7	149
273	Prelamin A causes progeria through cell-extrinsic mechanisms and prevents cancer invasion. <i>Nature Communications</i> , 2013 , 4, 2268	17.4	55
272	POT1 mutations cause telomere dysfunction in chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2013 , 45, 526-30	36.3	199
271	Conquering cancer in our lifetime: new diagnostic and therapeutic trends. <i>Clinical Chemistry</i> , 2013 , 59, 1-3	5.5	19
270	Immune-dependent and independent antitumor activity of GM-CSF aberrantly expressed by mouse and human colorectal tumors. <i>Cancer Research</i> , 2013 , 73, 395-405	10.1	55
269	Matrix metalloproteinase 13 modulates intestinal epithelial barrier integrity in inflammatory diseases by activating TNF. <i>EMBO Molecular Medicine</i> , 2013 , 5, 1000-16	12	86
268	Genome-wide association study identifies multiple risk loci for chronic lymphocytic leukemia. <i>Nature Genetics</i> , 2013 , 45, 868-76	36.3	147
267	NOTCH1 mutations identify a genetic subgroup of chronic lymphocytic leukemia patients with high risk of transformation and poor outcome. <i>Leukemia</i> , 2013 , 27, 1100-6	10.7	135
266	The hallmarks of aging. <i>Cell</i> , 2013 , 153, 1194-217	56.2	7165
265	Cell-cell adhesion genes CTNNA2 and CTNNA3 are tumour suppressors frequently mutated in laryngeal carcinomas. <i>Nature Communications</i> , 2013 , 4, 2531	17.4	61
264	Landscape of somatic mutations and clonal evolution in mantle cell lymphoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18250-5	11.5	377
263	Genetic and epigenetic basis of chronic lymphocytic leukemia. <i>Current Opinion in Hematology</i> , 2013 , 20, 362-8	3.3	32
262	A novel family of soluble minimal scaffolds provides structural insight into the catalytic domains of integral membrane metalloproteinases. <i>Journal of Biological Chemistry</i> , 2013 , 288, 21279-21294	5.4	26
261	Functional analysis of sucrase-isomaltase mutations from chronic lymphocytic leukemia patients. <i>Human Molecular Genetics</i> , 2013 , 22, 2273-82	5.6	21
260	The Emergence of GeroMIRs: A Group of MicroRNAs Implicated in Aging 2013 , 77-89		
259	Matrix metalloproteinase Mmp-1a is dispensable for normal growth and fertility in mice and promotes lung cancer progression by modulating inflammatory responses. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14647-14656	5.4	41
258	ATG4B/autophagin-1 regulates intestinal homeostasis and protects mice from experimental colitis. <i>Autophagy</i> , 2013 , 9, 1188-200	10.2	60
257	New roles for OMA1 metalloprotease: From mitochondrial proteostasis to metabolic homeostasis. <i>Adipocyte</i> , 2013 , 2, 7-11	3.2	6

256 Aminopeptidase O **2013**, 438-442

255 Identification of novel tumor suppressor proteases by degradome profiling of colorectal carcinomas. *Oncotarget*, **2013**, 4, 1931-2 3.3 9

254 Identification of novel tumor suppressor proteases by degradome profiling of colorectal carcinomas. *Oncotarget*, **2013**, 4, 1919-1932 3.3 1

253 ADAMTS12 **2013**, 1194-1198

252 Cathepsin O **2013**, 1821-1823

251 Polyserases **2013**, 2990-2994

250 Matrix Metalloproteinase-19 **2013**, 830-835

249 Loss of mitochondrial protease OMA1 alters processing of the GTPase OPA1 and causes obesity and defective thermogenesis in mice. *EMBO Journal*, **2012**, 31, 2117-33 13 180

248 Matrix Proteases and the Degradome **2012**, 5-23

247 Matrix metalloproteinase-19 is a key regulator of lung fibrosis in mice and humans. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 186, 752-62 10.2 66

246 Matrix metalloproteinase 8-dependent extracellular matrix cleavage at the blood-CSF barrier contributes to lethality during systemic inflammatory diseases. *Journal of Neuroscience*, **2012**, 32, 9805-16 6.6 80

245 An immunosurveillance mechanism controls cancer cell ploidy. *Science*, **2012**, 337, 1678-84 33.3 299

244 Nuclear lamina defects cause ATM-dependent NF- κ B activation and link accelerated aging to a systemic inflammatory response. *Genes and Development*, **2012**, 26, 2311-24 12.6 181

243 Selective subversion of autophagy complexes facilitates completion of the Brucella intracellular cycle. *Cell Host and Microbe*, **2012**, 11, 33-45 23.4 228

242 Nondegradative role of Atg5-Atg12/ Atg16L1 autophagy protein complex in antiviral activity of interferon gamma. *Cell Host and Microbe*, **2012**, 11, 397-409 23.4 167

241 Epigenomic analysis detects widespread gene-body DNA hypomethylation in chronic lymphocytic leukemia. *Nature Genetics*, **2012**, 44, 1236-42 36.3 422

240 Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544.2 2783

239 Activation of AMP-activated protein kinase (AMPK) provides a metabolic barrier to reprogramming somatic cells into stem cells. *Cell Cycle*, **2012**, 11, 974-89 4.7 87

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