

# Peter O Bauer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8527070/publications.pdf>

Version: 2024-02-01

57  
papers

3,012  
citations

218677

26  
h-index

161849

54  
g-index

59  
all docs

59  
docs citations

59  
times ranked

6592  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>C9ORF72</i> repeat expansions in mice cause TDP-43 pathology, neuronal loss, and behavioral deficits. <i>Science</i> , 2015, 348, 1151-1154.	12.6	332
2	Discovery of a Biomarker and Lead Small Molecules to Target r(GGGGCC)-Associated Defects in c9FTD/ALS. <i>Neuron</i> , 2014, 83, 1043-1050.	8.1	289
3	Reduced <i>C9orf72</i> gene expression in c9FTD/ALS is caused by histone trimethylation, an epigenetic event detectable in blood. <i>Acta Neuropathologica</i> , 2013, 126, 895-905.	7.7	263
4	Association between repeat sizes and clinical and pathological characteristics in carriers of <i>C9ORF72</i> repeat expansions (Xpansize-72): a cross-sectional cohort study. <i>Lancet Neurology</i> , The, 2013, 12, 978-988.	10.2	232
5	Harnessing chaperone-mediated autophagy for the selective degradation of mutant huntingtin protein. <i>Nature Biotechnology</i> , 2010, 28, 256-263.	17.5	215
6	The pathogenic mechanisms of polyglutamine diseases and current therapeutic strategies. <i>Journal of Neurochemistry</i> , 2009, 110, 1737-1765.	3.9	163
7	(Patho)physiological relevance of PINK1-dependent ubiquitin phosphorylation. <i>EMBO Reports</i> , 2015, 16, 1114-1130.	4.5	147
8	Blocking acid-sensing ion channel 1 alleviates Huntington's disease pathology via an ubiquitin-proteasome system-dependent mechanism. <i>Human Molecular Genetics</i> , 2008, 17, 3223-3235.	2.9	117
9	RNA-binding Protein TLS Is a Major Nuclear Aggregate-interacting Protein in Huntingtin Exon 1 with Expanded Polyglutamine-expressing Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 6489-6500.	3.4	109
10	Targeted manipulation of the sortilin-progranulin axis rescues progranulin haploinsufficiency. <i>Human Molecular Genetics</i> , 2014, 23, 1467-1478.	2.9	96
11	Inhibition of Rho Kinases Enhances the Degradation of Mutant Huntingtin. <i>Journal of Biological Chemistry</i> , 2009, 284, 13153-13164.	3.4	87
12	Characterization of DNA hypermethylation in the cerebellum of c9FTD/ALS patients. <i>Brain Research</i> , 2014, 1584, 15-21.	2.2	70
13	Acidic mammalian chitinase is a proteases-resistant glycosidase in mouse digestive system. <i>Scientific Reports</i> , 2016, 6, 37756.	3.3	58
14	Chitin digestibility is dependent on feeding behaviors, which determine acidic chitinase mRNA levels in mammalian and poultry stomachs. <i>Scientific Reports</i> , 2018, 8, 1461.	3.3	58
15	Expanded polyglutamines impair synaptic transmission and ubiquitin-proteasome system in <i>Caenorhabditis elegans</i> . <i>Journal of Neurochemistry</i> , 2006, 98, 576-587.	3.9	53
16	Gastric and intestinal proteases resistance of chicken acidic chitinase nominates chitin-containing organisms for alternative whole edible diets for poultry. <i>Scientific Reports</i> , 2017, 7, 6662.	3.3	51
17	Epigenetics DNA methylation in the core ataxin-2 gene promoter: novel physiological and pathological implications. <i>Human Genetics</i> , 2012, 131, 625-638.	3.8	45
18	The extreme N-terminus of TDP-43 mediates the cytoplasmic aggregation of TDP-43 and associated toxicity in vivo. <i>Brain Research</i> , 2016, 1647, 57-64.	2.2	44

#	ARTICLE	IF	CITATIONS
19	Loss and Gain of Human Acidic Mammalian Chitinase Activity by Nonsynonymous SNPs. <i>Molecular Biology and Evolution</i> , 2016, 33, 3183-3193.	8.9	35
20	Gliomagenesis Arising from Pten- and Ink4a/Arf-Deficient Neural Progenitor Cells Is Mediated by the p53-Fbxw7/Cdc4 Pathway, Which Controls c-Myc. <i>Cancer Research</i> , 2012, 72, 6065-6075.	0.9	32
21	ROCK-phosphorylated vimentin modifies mutant huntingtin aggregation via sequestration of IRBIT. <i>Molecular Neurodegeneration</i> , 2012, 7, 43.	10.8	31
22	A novel form of ciliopathy underlies hyperphagia and obesity in Ankrd26 knockout mice. <i>Brain Structure and Function</i> , 2015, 220, 1511-1528.	2.3	31
23	LRRK2 contributes to monocyte dysregulation in Parkinson's disease. <i>Acta Neuropathologica Communications</i> , 2016, 4, 123.	5.2	29
24	Protease resistance of porcine acidic mammalian chitinase under gastrointestinal conditions implies that chitin-containing organisms can be sustainable dietary resources. <i>Scientific Reports</i> , 2017, 7, 12963.	3.3	29
25	Enhanced degradation of mutant huntingtin by rho kinase inhibition is mediated through activation of proteasome and macroautophagy. <i>Autophagy</i> , 2009, 5, 747-748.	9.1	28
26	De Novo Mutations in Ataxin-2 Gene and ALS Risk. <i>PLoS ONE</i> , 2013, 8, e70560.	2.5	28
27	Improved fluorescent labeling of chitin oligomers: Chitinolytic properties of acidic mammalian chitinase under somatic tissue pH conditions. <i>Carbohydrate Polymers</i> , 2017, 164, 145-153.	10.2	24
28	2-Aminoethyl diphenylborinate (2-APB) analogues: Regulation of Ca <sup>2+</sup> signaling. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 286-290.	2.1	23
29	Functional Properties of the Catalytic Domain of Mouse Acidic Mammalian Chitinase Expressed in <i>Escherichia coli</i> . <i>International Journal of Molecular Sciences</i> , 2015, 16, 4028-4042.	4.1	22
30	Genetic ablation and chemical inhibition of IP3R1 reduce mutant huntingtin aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 13-17.	2.1	21
31	Methylation of C9orf72 expansion reduces RNA foci formation and dipeptide-repeat proteins expression in cells. <i>Neuroscience Letters</i> , 2016, 612, 204-209.	2.1	21
32	Involvement of microRNA families in cancer. <i>Nucleic Acids Research</i> , 2012, 40, 8219-8226.	14.5	18
33	High expression of acidic chitinase and chitin digestibility in the stomach of common marmoset ( <i>Callithrix jacchus</i> ), an insectivorous nonhuman primate. <i>Scientific Reports</i> , 2019, 9, 159.	3.3	18
34	Absence of spinocerebellar ataxia type 3/Machado-Joseph disease within ataxic patients in the Czech population. <i>European Journal of Neurology</i> , 2005, 12, 851-857.	3.3	16
35	Residues of acidic chitinase cause chitinolytic activity degrading chitosan in porcine pepsin preparations. <i>Scientific Reports</i> , 2019, 9, 15609.	3.3	15
36	Large de novo expansion of CAG repeats in patient with sporadic spinocerebellar ataxia type 7. <i>Journal of Neurology</i> , 2004, 251, 1023-4.	3.6	12

#	ARTICLE	IF	CITATIONS
37	Acidic Chitinase-Chitin Complex Is Dissociated in a Competitive Manner by Acetic Acid: Purification of Natural Enzyme for Supplementation Purposes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 362.	4.1	12
38	Large-Scale RNA Interference Screening in Mammalian Cells Identifies Novel Regulators of Mutant Huntingtin Aggregation. <i>PLoS ONE</i> , 2014, 9, e93891.	2.5	10
39	Functional Properties of Mouse Chitotriosidase Expressed in the Periplasmic Space of <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2016, 11, e0164367.	2.5	10
40	Quantitative Real-Time PCR Analysis of YKL-40 and Its Comparison with Mammalian Chitinase mRNAs in Normal Human Tissues Using a Single Standard DNA. <i>International Journal of Molecular Sciences</i> , 2015, 16, 9922-9935.	4.1	9
41	Mouse acidic mammalian chitinase exhibits transglycosylation activity at somatic tissue pH. <i>FEBS Letters</i> , 2017, 591, 3310-3318.	2.8	9
42	Direct comparison of chitinolytic properties and determination of combinatory effects of mouse chitotriosidase and acidic mammalian chitinase. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 882-890.	7.5	9
43	Can ataxin-2 be down-regulated by allele-specific de novo DNA methylation in SCA2 patients?. <i>Medical Hypotheses</i> , 2004, 63, 1018-1023.	1.5	8
44	Chitinase mRNA Levels Determined by QPCR in Crab-Eating Monkey ( <i>Macaca fascicularis</i> ) Tissues: Species-Specific Expression of Acidic Mammalian Chitinase and Chitotriosidase. <i>Genes</i> , 2018, 9, 244.	2.4	6
45	Robust chitinolytic activity of crab-eating monkey ( <i>Macaca fascicularis</i> ) acidic chitinase under a broad pH and temperature range. <i>Scientific Reports</i> , 2021, 11, 15470.	3.3	6
46	Large normal alleles and SCA2 prevalence: lessons from a nationwide study and analysis of the literature. <i>Clinical Genetics</i> , 2014, 86, 96-98.	2.0	5
47	Noninsect-Based Diet Leads to Structural and Functional Changes of Acidic Chitinase in Carnivora. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	5
48	Genotype/phenotype correlation in a SCA1 family: anticipation without CAG expansion. <i>Journal of Applied Genetics</i> , 2005, 46, 325-8.	1.9	5
49	Fluorescent Multiplex PCR: Fast Method for Autosomal Dominant Spinocerebellar Ataxias Screening. <i>Russian Journal of Genetics</i> , 2005, 41, 675-682.	0.6	3
50	Genome-wide associations of signaling pathways in glioblastoma multiforme. <i>BMC Medical Genomics</i> , 2013, 6, 11.	1.5	3
51	Quantification of chitooligosaccharides by FACE method: Determination of combinatory effects of mouse chitinases. <i>MethodsX</i> , 2020, 7, 100881.	1.6	3
52	Mouse Acidic Chitinase Effectively Degrades Random-Type Chitosan to Chitooligosaccharides of Variable Lengths under Stomach and Lung Tissue pH Conditions. <i>Molecules</i> , 2021, 26, 6706.	3.8	3
53	Important miRs of Pathways in Different Tumor Types. <i>PLoS Computational Biology</i> , 2013, 9, e1002883.	3.2	2
54	Neurons Induced From Fibroblasts of c9ALS/FTD Patients Reproduce the Pathology Seen in the Central Nervous System. <i>Frontiers in Neuroscience</i> , 2019, 13, 935.	2.8	2

#	ARTICLE	IF	CITATIONS
55	Comparative functional analysis between human and mouse chitotriosidase: Substitution at amino acid 218 modulates the chitinolytic and transglycosylation activity. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2895-2902.	7.5	2
56	Crab-Eating Monkey Acidic Chitinase (CHIA) Efficiently Degrades Chitin and Chitosan under Acidic and High-Temperature Conditions. <i>Molecules</i> , 2022, 27, 409.	3.8	1
57	Chaperone-Mediated Autophagy and Degradation of Mutant Huntingtin Protein. , 2014, , 369-382.		0