Johannes Berger

List of Publications by Year
in descending order

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114 papers	5,557 citations	66315 42 h-index	88593 70 g-index
115 all docs	115 docs citations	115 times ranked	5546 citing authors

#	Article	IF	Citations
1	X-linked adrenoleukodystrophy: Clinical, metabolic, genetic and pathophysiological aspects. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1465-1474.	1.8	217
2	Proteomics Characterization of Mouse Kidney Peroxisomes by Tandem Mass Spectrometry and Protein Correlation Profiling. Molecular and Cellular Proteomics, 2007, 6, 2045-2057.	2.5	210
3	The Difference in Recognition of Terminal Tripeptides as Peroxisomal Targeting Signal 1 between Yeast and Human Is Due to Different Affinities of Their Receptor Pex5p to the Cognate Signal and to Residues Adjacent to It. Journal of Biological Chemistry, 1998, 273, 33635-33643.	1.6	192
4	Peroxisome-derived lipids are self antigens that stimulate invariant natural killer T cells in the thymus. Nature Immunology, 2012, 13, 474-480.	7.0	183
5	Targeted inactivation of the X-linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	1.3	181
6	Peroxisomal alterations in Alzheimerâ€™s disease. Acta Neuropathologica, 2011, 122, 271-283.	3.9	176
7	Pathophysiology of X-linked adrenoleukodystrophy. Biochimie, 2014, 98, 135-142.	1.3	169
8	X-linked adrenoleukodystrophy: Clinical, biochemical and pathogenetic aspects. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1721-1732.	1.9	159
9	Dysferlin Is a New Marker for Leaky Brain Blood Vessels in Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 2006, 65, 855-865.	0.9	144
10	Revised nomenclature for the mammalian long-chain acyl-CoA synthetase gene family. Journal of Lipid Research, 2004, 45, 1958-1961.	2.0	142
11	Adrenoleukodystrophy-Related Protein Can Compensate Functionally for Adrenoleukodystrophy Protein Deficiency (X-ALD): Implications for Therapy. Human Molecular Genetics, 1999, 8, 907-913.	1.4	135
12	Peroxisomes in brain development and function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 934-955.	1.9	135
13	Comparative Biochemical Studies of the Murine Fatty Acid Transport Proteins (FATP) Expressed in Yeast. Journal of Biological Chemistry, 2005, 280, 16829-16837.	1.6	119
14	Impaired Very Long-chain Acyl-CoA Î²-Oxidation in Human X-linked Adrenoleukodystrophy Fibroblasts Is a Direct Consequence of ABCD1 Transporter Dysfunction. Journal of Biological Chemistry, 2013, 288, 19269-19279.	1.6	114
15	X-Linked Adrenoleukodystrophy (ALD): A Novel Mutation of the ALD Gene in 6 Members of a Family Presenting with 5 Different Phenotypes. Biochemical and Biophysical Research Communications, 1994, 205, 1638-1643.	1.0	110
16	Late-onset metachromatic leukodystrophy: Genotype strongly influences phenotype. Neurology, 2006, 67, 859-863.	1.5	106
17	Brain neutral lipids mass is increased in Î±-synuclein gene-ablated mice. Journal of Neurochemistry, 2006, 101, 132-141.	2.1	99
18	From peroxisomal disorders to common neurodegenerative diseases â€“ the role of ether phospholipids in the nervous system. FEBS Letters, 2017, 591, 2761-2788.	1.3	97

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19	The genetic landscape of X-linked adrenoleukodystrophy: inheritance, mutations, modifier genes, and diagnosis. The Application of Clinical Genetics, 2015, 8, 109.	1.4	96
20	The similarity between N-terminal targeting signals for protein import into different organelles and its evolutionary relevance. Frontiers in Physiology, 2015, 6, 259.	1.3	92
21	The four murine peroxisomal ABC-transporter genes differ in constitutive, inducible and developmental expression. FEBS Journal, 1999, 265, 719-727.	0.2	91
22	cDNA Cloning and mRNA Expression of the Human Adrenoleukodystrophy Related Protein (ALDRP), a Peroxisomal ABC Transporter. Biochemical and Biophysical Research Communications, 1997, 239, 261-264.	1.0	87
23	Human leukocyte antigens and cytokine expression in cerebral inflammatory demyelinative lesions of X-linked adrenoleukodystrophy and multiple sclerosis. Journal of Neuroimmunology, 1997, 75, 174-182.	1.1	82
24	Current and Future Pharmacological Treatment Strategies in Xâ€Linked Adrenoleukodystrophy. Brain Pathology, 2010, 20, 845-856.	2.1	80
25	The TMEM189 gene encodes plasmanylethanolamine desaturase which introduces the characteristic vinyl ether double bond into plasmalogens. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7792-7798.	3.3	79
26	Acyl-CoA Synthetase Activity Links Wild-Type but Not Mutant Î±-Synuclein to Brain Arachidonate Metabolism. Biochemistry, 2006, 45, 6956-6966.	1.2	76
27	Homeostasis of phospholipids â€" The level of phosphatidylethanolamine tightly adapts to changes in ethanolamine plasmalogens. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2015, 1851, 117-128.	1.2	76
28	Plasmalogens, platelet-activating factor and beyond â€" Ether lipids in signaling and neurodegeneration. Neurobiology of Disease, 2020, 145, 105061.	2.1	76
29	Occurrence, distribution, and phenotype of arylsulfatase A mutations in patients with metachromatic leukodystrophy. American Journal of Medical Genetics Part A, 1997, 69, 335-340.	2.4	73
30	Mouse Very Long-chain Acyl-CoA Synthetase 3/Fatty Acid Transport Protein 3 Catalyzes Fatty Acid Activation but Not Fatty Acid Transport in MA-10 Cells. Journal of Biological Chemistry, 2004, 279, 54454-54462.	1.6	71
31	Fibrate induction of the adrenoleukodystrophy-related gene (ABCD2). FEBS Journal, 2001, 268, 3490-3500.	0.2	63
32	Leukodystrophies: recent developments in genetics, molecular biology, pathogenesis and treatment*. Current Opinion in Neurology, 2001, 14, 305-312.	1.8	60
33	Mutational analysis of functional domains in the HIV-1 rev trans-regulatory protein. Virology, 1991, 183, 630-635.	1.1	55
34	ABCA8 Regulates Cholesterol Efflux and High-Density Lipoprotein Cholesterol Levels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2147-2155.	1.1	55
35	Impaired plasticity of macrophages in X-linked adrenoleukodystrophy. Brain, 2018, 141, 2329-2342.	3.7	52
36	Cholesterol regulates ABCD2 expression: implications for the therapy of X-linked adrenoleukodystrophy. Human Molecular Genetics, 2002, 11, 2701-2708.	1.4	51

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37	A new paraclinical CSF marker for hypoxiaâ€like tissue damage in multiple sclerosis lesions. Brain, 2003, 126, 1347-1357.	3.7	51
38	Structural Requirements for Interaction of Peroxisomal Targeting Signal 2 and Its Receptor PEX7. Journal of Biological Chemistry, 2011, 286, 45048-45062.	1.6	49
39	Microvascularization and expression of VEGF and its receptors in recurring meningiomas: pathobiological data in favor of anti-angiogenic therapy approaches. , 2012, 31, 352-360.		49
40	Alterations in the Plasma Levels of Specific Choline Phospholipids in Alzheimerâ€™s Disease Mimic Accelerated Aging. Journal of Alzheimer's Disease, 2018, 62, 841-854.	1.2	48
41	Distribution and cellular localization of adrenoleukodystrophy protein in human tissues: Implications for X-linked adrenoleukodystrophy. Neurobiology of Disease, 2007, 28, 165-174.	2.1	47
42	Disturbed neurotransmitter homeostasis in ether lipid deficiency. Human Molecular Genetics, 2019, 28, 2046-2061.	1.4	47
43	X-linked adrenoleukodystrophy: very long-chain fatty acid metabolism is severely impaired in monocytes but not in lymphocytes. Human Molecular Genetics, 2014, 23, 2542-2550.	1.4	46
44	Impaired neurotransmission in ether lipid-deficient nerve terminals. Human Molecular Genetics, 2012, 21, 2713-2724.	1.4	44
45	A Novel Relative of the Very-Long-Chain Acyl-CoA Synthetase and Fatty Acid Transporter Protein Genes with a Distinct Expression Pattern. Biochemical and Biophysical Research Communications, 1998, 247, 255-260.	1.0	43
46	Thyroid Hormone Induction of the Adrenoleukodystrophy-Related Gene (ABCD2). Molecular Pharmacology, 2003, 63, 1296-1303.	1.0	41
47	Liver X Receptor Î± Interferes with SREBP1c-mediated Abcd2 Expression. Journal of Biological Chemistry, 2005, 280, 41243-41251.	1.6	37
48	cDNA cloning and mRNA distribution of a mouse very long-chain acyl-CoA synthetase. FEBS Letters, 1998, 425, 305-309.	1.3	33
49	Neurofilament light chain as a potential biomarker for monitoring neurodegeneration in X-linked adrenoleukodystrophy. Nature Communications, 2021, 12, 1816.	5.8	33
50	Hidden localization motifs: naturally occurring peroxisomal targeting signals in non-peroxisomal proteins. Genome Biology, 2004, 5, R97.	13.9	32
51	Accumulation of very long-chain fatty acids does not affect mitochondrial function in adrenoleukodystrophy protein deficiency. Human Molecular Genetics, 2005, 14, 1127-1137.	1.4	32
52	Lack of adrenoleukodystrophy protein enhances oligodendrocyte disturbance and microglia activation in mice with combined Abcd1/Mag deficiency. Acta Neuropathologica, 2007, 114, 573-586.	3.9	32
53	Mechanistic Insights into PTS2-mediated Peroxisomal Protein Import. Journal of Biological Chemistry, 2015, 290, 4928-4940.	1.6	32
54	cDNA cloning and analysis of tissue-specific expression of mouse peroxisomal straight-chain acyl-CoA oxidase. FEBS Journal, 2000, 267, 1254-1260.	0.2	31

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55	Drebrin depletion alters neurotransmitter receptor levels in protein complexes, dendritic spine morphogenesis and memoryâ€related synaptic plasticity in the mouse hippocampus. Journal of Neurochemistry, 2015, 134, 327-339.	2.1	31
56	Hippocampal proteoglycans brevican and versican are linked to spatial memory of Sprague–Dawley rats in the morris water maze. Journal of Neurochemistry, 2014, 130, 797-804.	2.1	30
57	Mutations c.459+1G>A and p.P426L in the ARSA gene: Prevalence in metachromatic leukodystrophy patients from European countries. Molecular Genetics and Metabolism, 2005, 86, 353-359.	0.5	27
58	Eight novelABCD1gene mutations and three polymorphisms in patients with X-linked adrenoleukodystrophy: The first polymorphism causing an amino acid exchange. Human Mutation, 2001, 18, 52-60.	1.1	26
59	Distinct modulatory roles for thyroid hormone receptors TRÎ± and TRÎ² in SREBP1-activated ABCD2 expression. European Journal of Cell Biology, 2008, 87, 933-945.	1.6	26
60	Murine bubblegum orthologue is a microsomal very long-chain acyl-CoA synthetase. Biochemical Journal, 2004, 377, 85-93.	1.7	25
61	X-linked adrenoleukodystrophy mice demonstrate abnormalities in cholesterol metabolism. FEBS Letters, 2005, 579, 5512-5516.	1.3	25
62	X-linked adrenoleukodystrophy phenotype is independent of ABCD2 genotype. Biochemical and Biophysical Research Communications, 2008, 377, 176-180.	1.0	25
63	Reduced muscle strength in ether lipidâ€deficient mice is accompanied by altered development and function of the neuromuscular junction. Journal of Neurochemistry, 2017, 143, 569-583.	2.1	25
64	Late juvenile metachromatic leukodystrophy (MLD) in three patients with a similar clinical course and identical mutation on one allele. Clinical Genetics, 1996, 50, 287-292.	1.0	24
65	Ether Lipid Deficiency in Mice Produces a Complex Behavioral Phenotype Mimicking Aspects of Human Psychiatric Disorders. International Journal of Molecular Sciences, 2019, 20, 3929.	1.8	24
66	The brain penetrant PPARÎ³ agonist leriglitazone restores multiple altered pathways in models of X-linked adrenoleukodystrophy. Science Translational Medicine, 2021, 13, .	5.8	24
67	Elevated sulfatide excretion in compound heterozygotes of metachromatic leukodystrophy and ASA-pseudodeficiency allele. Clinical Biochemistry, 1997, 30, 325-331.	0.8	23
68	Co-expression of mutated and normal adrenoleukodystrophy protein reduces protein function: implications for gene therapy of X-linked adrenoleukodystrophy. Human Molecular Genetics, 2000, 9, 2609-2616.	1.4	23
69	Evaluation of the therapeutic potential of PPARÎ± agonists for X-linked adrenoleukodystrophy. Molecular Genetics and Metabolism, 2003, 80, 398-407.	0.5	22
70	Development of HIV encephalitis in AIDS and TNF-Î± regulatory elements. Journal of Neuroimmunology, 1998, 91, 89-92.	1.1	21
71	Abcd2 Is a Strong Modifier of the Metabolic Impairments in Peritoneal Macrophages of Abcd1-Deficient Mice. PLoS ONE, 2014, 9, e108655.	1.1	21
72	Vorinostat in the acute neuroinflammatory form of Xâ€linked adrenoleukodystrophy. Annals of Clinical and Translational Neurology, 2020, 7, 639-652.	1.7	19

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73	Full Length cDNA Cloning, Promoter Sequence, and Genomic Organization of the Human Adrenoleukodystrophy Related (ALDR) Gene Functionally Redundant to the Gene Responsible for X-Linked Adrenoleukodystrophy. Biochemical and Biophysical Research Communications, 1999, 258, 436-442.	1.0	18
74	Rat adrenoleukodystrophy-related (ALDR) gene: full-length cDNA sequence and new insight in expression. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1517, 257-269.	2.4	18
75	Very Long-Chain Acyl-CoA Synthetase 3: Overexpression and Growth Dependence in Lung Cancer. PLoS ONE, 2013, 8, e69392.	1.1	18
76	Simultaneous detection of the two most frequent metachromatic leukodystrophy mutations. Human Genetics, 1993, 92, 421-423.	1.8	17
77	Metabolic rerouting via SCD1 induction impacts X-linked adrenoleukodystrophy. Journal of Clinical Investigation, 2021, 131, .	3.9	17
78	Molecular and phenotypic characteristics of metachromatic leukodystrophy patients from Poland. Clinical Genetics, 2005, 68, 48-54.	1.0	16
79	A novel mammalian bubblegum-related acyl-CoA synthetase restricted to testes and possibly involved in spermatogenesis. Archives of Biochemistry and Biophysics, 2006, 451, 23-33.	1.4	16
80	Dietary magnesium restriction reduces amygdalaâ€“hypothalamic GluN1 receptor complex levels in mice. Brain Structure and Function, 2015, 220, 2209-2221.	1.2	16
81	Oral batyl alcohol supplementation rescues decreased cardiac conduction in ether phospholipidâ€deficient mice. Journal of Inherited Metabolic Disease, 2020, 43, 1046-1055.	1.7	15
82	CD1 Gene Polymorphisms and Phenotypic Variability in X-Linked Adrenoleukodystrophy. PLoS ONE, 2012, 7, e29872.	1.1	14
83	Ether Lipid Deficiency Does Not Cause Neutropenia or Leukopenia in Mice and Men. Cell Metabolism, 2015, 21, 650-651.	7.2	14
84	Impaired plasmalogen synthesis dysregulates liver X receptor-dependent transcription in cerebellum. Journal of Biochemistry, 2019, 166, 353-361.	0.9	14
85	Expression of Hypoxia-related Tissue Factors Correlates with Diminished Survival of Adjuvantly Treated Patients with Chromosome 1p Aberrant Oligodendroglial Neoplasms and Therapeutic Implications. Clinical Cancer Research, 2004, 10, 6567-6571.	3.2	12
86	Peroxisomal cholesterol biosynthesis and Smith-Lemli-Opitz syndrome. Biochemical and Biophysical Research Communications, 2006, 345, 205-209.	1.0	12
87	LXR antagonists induce ABCD2 expression. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 259-266.	1.2	12
88	Formation of GABAA receptor complexes containing Î±1 and Î±5 subunits is paralleling a multiple T-maze learning task in mice. Brain Structure and Function, 2017, 222, 549-561.	1.2	12
89	Association of X-Linked Adrenoleukodystrophy with HLA DRB1 Alleles. Biochemical and Biophysical Research Communications, 1995, 216, 447-451.	1.0	10
90	Potential Involvement of Peroxisome in Multiple Sclerosis and Alzheimerâ€™s Disease. Advances in Experimental Medicine and Biology, 2020, 1299, 91-104.	0.8	10

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91	Nestlet Shredding and Nest Building Tests to Assess Features of Psychiatric Disorders in Mice. Bio-protocol, 2020, 10, .	0.2	10
92	Peroxisomal Localization of the Proopiomelanocortin-Derived Peptides Î²-Lipotropin and Î²-Endorphin. Endocrinology, 2010, 151, 4801-4810.	1.4	9
93	Coincidence of two novel arylsulfatase a alleles and mutation 459+1G>A within a family with metachromatic leukodystrophy: Molecular basis of phenotypic heterogeneity. Human Mutation, 1999, 13, 61-68.	1.1	8
94	High prevalence of I179S mutation in patients with late-onset metachromatic leukodystrophy. Clinical Genetics, 2002, 61, 389-390.	1.0	8
95	A Novel FRET Approach Quantifies the Interaction Strength of Peroxisomal Targeting Signals and Their Receptor in Living Cells. Cells, 2020, 9, 2381.	1.8	8
96	Targeting foam cell formation in inflammatory brain diseases by the histone modifier MSâ€275. Annals of Clinical and Translational Neurology, 2020, 7, 2161-2177.	1.7	8
97	A new polymorphism of arylsulfatase A within the coding region. Human Genetics, 1996, 98, 348-350.	1.8	7
98	Rolipram does not normalize very long-chain fatty acid levels in adrenoleukodystrophy protein-deficient fibroblasts and mice. Journal of Inherited Metabolic Disease, 2000, 23, 615-624.	1.7	7
99	Investigations of micro-organic brain damage (MOBD) in heterozygotes of metachromatic leukodystrophy. American Journal of Medical Genetics Part A, 2002, 110, 315-319.	2.4	7
100	Involvement of Human Peroxisomes in Biosynthesis and Signaling of Steroid and Peptide Hormones. Sub-Cellular Biochemistry, 2013, 69, 101-110.	1.0	7
101	Rare Human Missense Variants can affect the Function of Disease-Relevant Proteins by Loss and Gain of Peroxisomal Targeting Motifs. International Journal of Molecular Sciences, 2019, 20, 4609.	1.8	6
102	Pharmacological Induction of Redundant Genes for a Therapy of X-ALD. Advances in Experimental Medicine and Biology, 2003, 544, 281-291.	0.8	6
103	Evaluation of Retinoids for Induction of the Redundant Gene ABCD2 as an Alternative Treatment Option in X-Linked Adrenoleukodystrophy. PLoS ONE, 2014, 9, e103742.	1.1	6
104	A Pex7 Deficient Mouse Series Correlates Biochemical and Neurobehavioral Markers to Genotype Severityâ€"Implications for the Disease Spectrum of Rhizomelic Chondrodysplasia Punctata Type 1. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	6
105	Prevalence of Arylsulfatase A Pseudodeficiency Allele in Metachromatic Leukodystrophy Patients from Poland. European Neurology, 2000, 44, 104-107.	0.6	5
106	Proteome Profiling in the Rat Harderian Gland. Journal of Proteome Research, 2006, 5, 1751-1762.	1.8	5
107	A de novo adrenoleukodystrophy gene (ABCD1) mutation S636I without detectable ABCD1 protein and a R104C mutation with normal amounts of protein from an Austrian patient collective. Human Mutation, 2000, 16, 534-534.	1.1	4
108	Evidence against the Adrenoleukodystrophy-related Gene acting as a Modifier of X-adrenoleukodystrophy. Advances in Experimental Medicine and Biology, 2003, 544, 95-96.	0.8	3

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109	Lessons from Knockout Mice II: Mouse Models for Peroxisomal Disorders with Single Protein Deficiency. Advances in Experimental Medicine and Biology, 2003, 544, 123-134.	0.8	2
110	Single Peroxisomal Enzyme and Transporter Deficiencies in Human Diseases and Mouse Models. , 2014, , 153-184.		2
111	Targeted inactivation of the Xâ€linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	1.3	1
112	False polymerase chain reaction-based diagnosis: Is it avoidable?. American Journal of Medical Genetics Part A, 1997, 72, 241-241.	2.4	0
113	Cholesterol regulates ABCD2 Gene Expression: implications for X-linked Adrenoleukodstrophy. Advances in Experimental Medicine and Biology, 2003, 544, 331-332.	0.8	0
114	Dysregulated hepcidin response to dietary iron in male mice with reduced Gnpat expression. Bioscience Reports, 2020, 40, .	1.1	0