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	Neurofilament light chain as a potential biomarker for monitoring neurodegeneration in X-linked adrenoleukodystrophy. Nature Communications, 2021, 12, 1816.	5.8	33
2	Metabolic rerouting via SCD1 induction impacts X-linked adrenoleukodystrophy. Journal of Clinical Investigation, 2021, 131, .	3.9	17
3	The brain penetrant PPARÎ³ agonist leriglitazone restores multiple altered pathways in models of X-linked adrenoleukodystrophy. Science Translational Medicine, 2021, 13, .	5.8	24
4	Plasmalogens, platelet-activating factor and beyond â€“ Ether lipids in signaling and neurodegeneration. Neurobiology of Disease, 2020, 145, 105061.	2.1	76
5	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
6	Vorinostat in the acute neuroinflammatory form of Xâ€linked adrenoleukodystrophy. Annals of Clinical and Translational Neurology, 2020, 7, 639-652.	1.7	19
7	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
8	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
9	Potential Involvement of Peroxisome in Multiple Sclerosis and Alzheimerâ€™s Disease. Advances in Experimental Medicine and Biology, 2020, 1299, 91-104.	0.8	10
10	Dysregulated hepcidin response to dietary iron in male mice with reduced Gnpat expression. Bioscience Reports, 2020, 40, .	1.1	0
11	Nestlet Shredding and Nest Building Tests to Assess Features of Psychiatric Disorders in Mice. Bio-protocol, 2020, 10, .	0.2	10
12	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
13	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
14	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
15	Impaired plasmalogen synthesis dysregulates liver X receptor-dependent transcription in cerebellum. Journal of Biochemistry, 2019, 166, 353-361.	0.9	14
16	Disturbed neurotransmitter homeostasis in ether lipid deficiency. Human Molecular Genetics, 2019, 28, 2046-2061.	1.4	47
17	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
18	Impaired plasticity of macrophages in X-linked adrenoleukodystrophy. Brain, 2018, 141, 2329-2342.	3.7	52

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19	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
20	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
21	ABCA8 Regulates Cholesterol Efflux and High-Density Lipoprotein Cholesterol Levels. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 2147-2155.	1.1	55
22	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
23	Peroxisomes in brain development and function. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 934-955.	1.9	135
24	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
25	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
26	The genetic landscape of X-linked adrenoleukodystrophy: inheritance, mutations, modifier genes, and diagnosis. The Application of Clinical Genetics, 2015, 8, 109.	1.4	96
27	Ether Lipid Deficiency Does Not Cause Neutropenia or Leukopenia in Mice and Men. Cell Metabolism, 2015, 21, 650-651.	7.2	14
28	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
29	Mechanistic Insights into PTS2-mediated Peroxisomal Protein Import. Journal of Biological Chemistry, 2015, 290, 4928-4940.	1.6	32
30	Dietary magnesium restriction reduces amygdalaâ€“hypothalamic GluN1 receptor complex levels in mice. Brain Structure and Function, 2015, 220, 2209-2221.	1.2	16
31	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
32	LXR antagonists induce ABCD2 expression. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2014, 1841, 259-266.	1.2	12
33	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
34	Pathophysiology of X-linked adrenoleukodystrophy. Biochimie, 2014, 98, 135-142.	1.3	169
35	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
36	Abcd2 Is a Strong Modifier of the Metabolic Impairments in Peritoneal Macrophages of Abcd1-Deficient Mice. PLoS ONE, 2014, 9, e108655.	1.1	21

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37	Single Peroxisomal Enzyme and Transporter Deficiencies in Human Diseases and Mouse Models. , 2014, , 153-184.		2
38	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
39	Very Long-Chain Acyl-CoA Synthetase 3: Overexpression and Growth Dependence in Lung Cancer. PLoS ONE, 2013, 8, e69392.	1.1	18
40	Involvement of Human Peroxisomes in Biosynthesis and Signaling of Steroid and Peptide Hormones. Sub-Cellular Biochemistry, 2013, 69, 101-110.	1.0	7
41	Impaired neurotransmission in ether lipid-deficient nerve terminals. Human Molecular Genetics, 2012, 21, 2713-2724.	1.4	44
42	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
43	X-linked adrenoleukodystrophy: Clinical, metabolic, genetic and pathophysiological aspects. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2012, 1822, 1465-1474.	1.8	217
44	CD1 Gene Polymorphisms and Phenotypic Variability in X-Linked Adrenoleukodystrophy. PLoS ONE, 2012, 7, e29872.	1.1	14
45	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
46	Peroxisomal alterations in Alzheimerâ€™s disease. Acta Neuropathologica, 2011, 122, 271-283.	3.9	176
47	Structural Requirements for Interaction of Peroxisomal Targeting Signal 2 and Its Receptor PEX7. Journal of Biological Chemistry, 2011, 286, 45048-45062.	1.6	49
48	Current and Future Pharmacological Treatment Strategies in Xâ€Linked Adrenoleukodystrophy. Brain Pathology, 2010, 20, 845-856.	2.1	80
49	Peroxisomal Localization of the Proopiomelanocortin-Derived Peptides Î²-Lipotropin and Î²-Endorphin. Endocrinology, 2010, 151, 4801-4810.	1.4	9
50	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
51	X-linked adrenoleukodystrophy phenotype is independent of ABCD2 genotype. Biochemical and Biophysical Research Communications, 2008, 377, 176-180.	1.0	25
52	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
53	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
54	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

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55	Acyl-CoA Synthetase Activity Links Wild-Type but Not Mutant Î±-Synuclein to Brain Arachidonate Metabolism. Biochemistry, 2006, 45, 6956-6966.	1.2	76
56	Proteome Profiling in the Rat Harderian Gland. Journal of Proteome Research, 2006, 5, 1751-1762.	1.8	5
57	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
58	Peroxisomal cholesterol biosynthesis and Smith-Lemli-Opitz syndrome. Biochemical and Biophysical Research Communications, 2006, 345, 205-209.	1.0	12
59	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
60	Brain neutral lipids mass is increased in Î±-synuclein gene-ablated mice. Journal of Neurochemistry, 2006, 101, 132-141.	2.1	99
61	X-linked adrenoleukodystrophy: Clinical, biochemical and pathogenetic aspects. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 1721-1732.	1.9	159
62	Late-onset metachromatic leukodystrophy: Genotype strongly influences phenotype. Neurology, 2006, 67, 859-863.	1.5	106
63	Molecular and phenotypic characteristics of metachromatic leukodystrophy patients from Poland. Clinical Genetics, 2005, 68, 48-54.	1.0	16
64	Liver X Receptor Î± Interferes with SREBP1c-mediated Abcd2 Expression. Journal of Biological Chemistry, 2005, 280, 41243-41251.	1.6	37
65	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
66	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
67	X-linked adrenoleukodystrophy mice demonstrate abnormalities in cholesterol metabolism. FEBS Letters, 2005, 579, 5512-5516.	1.3	25
68	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
69	Revised nomenclature for the mammalian long-chain acyl-CoA synthetase gene family. Journal of Lipid Research, 2004, 45, 1958-1961.	2.0	142
70	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
71	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
72	Hidden localization motifs: naturally occurring peroxisomal targeting signals in non-peroxisomal proteins. Genome Biology, 2004, 5, R97.	13.9	32

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73	Murine bubblegum orthologue is a microsomal very long-chain acyl-CoA synthetase. Biochemical Journal, 2004, 377, 85-93.	1.7	25
74	Evaluation of the therapeutic potential of PPARÎ± agonists for X-linked adrenoleukodystrophy. Molecular Genetics and Metabolism, 2003, 80, 398-407.	0.5	22
75	Thyroid Hormone Induction of the Adrenoleukodystrophy-Related Gene (ABCD2). Molecular Pharmacology, 2003, 63, 1296-1303.	1.0	41
76	A new paraclinical CSF marker for hypoxiaâ€like tissue damage in multiple sclerosis lesions. Brain, 2003, 126, 1347-1357.	3.7	51
77	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
78	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
79	Pharmacological Induction of Redundant Genes for a Therapy of X-ALD. Advances in Experimental Medicine and Biology, 2003, 544, 281-291.	0.8	6
80	Cholesterol regulates ABCD2 Gene Expression: implications for X-linked Adrenoleukodstrophy. Advances in Experimental Medicine and Biology, 2003, 544, 331-332.	0.8	0
81	Cholesterol regulates ABCD2 expression: implications for the therapy of X-linked adrenoleukodystrophy. Human Molecular Genetics, 2002, 11, 2701-2708.	1.4	51
82	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
83	High prevalence of I179S mutation in patients with late-onset metachromatic leukodystrophy. Clinical Genetics, 2002, 61, 389-390.	1.0	8
84	Leukodystrophies: recent developments in genetics, molecular biology, pathogenesis and treatment*. Current Opinion in Neurology, 2001, 14, 305-312.	1.8	60
85	Fibrate induction of the adrenoleukodystrophy-related gene (ABCD2). FEBS Journal, 2001, 268, 3490-3500.	0.2	63
86	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
87	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
88	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
89	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
90	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

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91	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
92	Prevalence of Arylsulfatase A Pseudodeficiency Allele in Metachromatic Leukodystrophy Patients from Poland. European Neurology, 2000, 44, 104-107.	0.6	5
93	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
94	The four murine peroxisomal ABC-transporter genes differ in constitutive, inducible and developmental expression. FEBS Journal, 1999, 265, 719-727.	0.2	91
95	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
96	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
97	Development of HIV encephalitis in AIDS and TNF-Î± regulatory elements. Journal of Neuroimmunology, 1998, 91, 89-92.	1.1	21
98	cDNA cloning and mRNA distribution of a mouse very long-chain acyl-CoA synthetase. FEBS Letters, 1998, 425, 305-309.	1.3	33
99	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
100	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
101	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
102	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
103	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
104	False polymerase chain reaction-based diagnosis: Is it avoidable?. American Journal of Medical Genetics Part A, 1997, 72, 241-241.	2.4	0
105	Targeted inactivation of the X-linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	1.3	181
106	Elevated sulfatide excretion in compound heterozygotes of metachromatic leukodystrophy and ASA-pseudodeficiency allele. Clinical Biochemistry, 1997, 30, 325-331.	0.8	23
107	Targeted inactivation of the Xâ€linked adrenoleukodystrophy gene in mice. Journal of Neuroscience Research, 1997, 50, 829-843.	1.3	1
108	A new polymorphism of arylsulfatase A within the coding region. Human Genetics, 1996, 98, 348-350.	1.8	7

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109	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
110	Association of X-Linked Adrenoleukodystrophy with HLA DRB1 Alleles. Biochemical and Biophysical Research Communications, 1995, 216, 447-451.	1.0	10
111	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
112	Simultaneous detection of the two most frequent metachromatic leukodystrophy mutations. Human Genetics, 1993, 92, 421-423.	1.8	17
113	Mutational analysis of functional domains in the HIV-1 rev trans-regulatory protein. Virology, 1991, 183, 630-635.	1.1	55
114	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