

# Adrenoleukodystrophy

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Adrenoleukodystrophy is a rare inherited disorder that leads to progressive brain damage, failure of the adrenal gland and eventually death. ALD is one of a group of inherited disorders called Leukodystrophies progressively damaging the myelin, a complex fatty neural tissue that insulates many nerves of the central and peripheral nervous systems. Without myelin, nerves are unable to conduct an impulse, leading to increasing disability as myelin destruction increases and intensifies. An essential protein, called a transporter protein, is missing in sufferers. This protein is needed to carry an enzyme which is used to break down long chain fatty acids found in the normal diet. A build up of these long chain fatty acids in the body due to this can cause damage to the brain and the adrenal gland. The victims of ALD are nearly always male, with about one in five women carrying the disease developing a milder form in adult life. There are several different types of the disease which can be inherited in two different ways. It is more commonly inherited as an X-linked condition. Although this disorder affects the growth and/or development of myelin, Leukodystrophies are different from demyelinating disorders such as multiple sclerosis where myelin is formed normally but is lost by immunologic dysfunction or for other reasons. ([From the Wikipedia article Adrenoleukodystrophy](#).)

## Recent Publications on Adrenoleukodystrophy:



- [Clinical profile of adrenoleukodystrophy.](#)  
*X-linked Adrenoleukodystrophy (ALD) is the most common of the peroxisomal...* 13th November, 2009  
Department of Endocrinology, Seth GS Medical College and KEM Hospital,- Indian J Pediatr. 2009 Oct;76(10):1045-7. Epub 2009 Nov 12. ([DOI Direct Link](#))
- [Hematopoietic stem cell gene therapy with a lentiviral vector in X-linked adrenoleukodystrophy.](#)  
*X-linked adrenoleukodystrophy (ALD) is a severe brain demyelinating...* 7th November, 2009  
INSERM UMR745, University Paris-Descartes, 75279 Paris, France.- Science. 2009 Nov 6;326(5954):818-23. ([DOI Direct Link](#))
- [Manifestation of neurofibromatosis 1 in a patient with X-linked adrenoleukodystrophy.](#)  
*A patient with X-linked adrenoleukodystrophy exhibited a phenotype of...* 27th October, 2009  
Department of Pediatrics and Child Neurology, Oita University, 1-1- Pediatr Neurol. 2009 Sep;41(3):211-4. ([DOI Direct Link](#))
- [Twenty years of dysuria in a patient with Addison's disease: a case report.](#)  
*X-linked adrenoleukodystrophy is an X-linked recessive disorder affecting...* 16th October, 2009  
Department of Internal Medicine, Atlanta Medical Center 303 Parkway Drive- Cases J. 2009 Jun 15;2:7995. ([DOI Direct Link](#))
- [Peroxisomal and mitochondrial status of two murine oligodendrocytic cell lines \(158N, 158JP\): potential models for the study of peroxisomal disorders associated with dysmyelination processes.](#)  
*In some neurodegenerative disorders (leukodystrophies) characterized by...* 10th October, 2009  
Centre de Recherche INSERM, Dijon, France.- J Neurochem. 2009 Oct;111(1):119-31. Epub 2009 Jul

29. ([DOI Direct Link](#))
- [Fast diffusion of very long chain saturated fatty acids across a bilayer membrane and their rapid extraction by cyclodextrins: Implications for adrenoleukodystrophy.](#)  
*Abnormalities in the transport of saturated very long chain fatty acids...*6th October, 2009  
Boston University School of Medicine, United States;- J Biol Chem. 2009 Sep 28. ([DOI Direct Link](#))
  - [Metachromatic Leukodystrophy: A Scoring System for Brain MR Imaging Observations.](#)  
*BACKGROUND AND PURPOSE: Metachromatic leukodystrophy (MLD) is a...*3rd October, 2009  
From Department of Neurology, Massachusetts General Hospital, Harvard- AJNR Am J Neuroradiol. 2009 Oct 1. ([DOI Direct Link](#))
  - [\[Primary adrenal insufficiency as the form of onset of adrenoleukodystrophy in a 4-year-old boy\]](#)  
*X-linked adrenoleukodystrophy is an inherited metabolic disease caused by...*3rd October, 2009  
Servicio de Pediatria, Hospital Universitario Virgen Macarena, Av. Dr.- Endocrinol Nutr. 2009 Jan;56(1):40-2. Epub 2009 Mar 1. ([DOI Direct Link](#))
  - [Downregulation of ABCD1 in human renal cell carcinoma.](#)  
*Renal cell carcinoma (RCC) is the most common malignant tumor of the...*30th September, 2009  
Institute of Biochemistry, Kaohsiung Medical University, Kaohsiung,- Int J Biol Markers. 2009 Jul-Sep;24(3):171-8.
  - [Novel human pathological mutations. Gene symbol: ABCD1. Disease: Adrenoleukodystrophy.](#)  
*COMATOSE (CTS), the plant homologue of Adrenoleukodystrophy protein, is a...*9th September, 2009  
Department of Biochemistry, VP Chest Institute, Delhi, India.- Hum Genet. 2009 Aug;126(2):344.
  - [Novel human pathological mutations. Gene symbol: ABCD1. Disease: Adrenoleukodystrophy.](#)  
*COMATOSE (CTS), the plant homologue of Adrenoleukodystrophy protein, is a...*9th September, 2009  
Pediatrics (Genetic unit), All India Institute of Medical Sciences, New- Hum Genet. 2009 Aug;126(2):335-6.
  - [Insulin-like growth factor-1 and neurotrophin-3 gene therapy prevents motor decline in an X-linked adrenoleukodystrophy mouse model.](#)  
*X-linked adrenoleukodystrophy (X-ALD) is the most common inherited...*5th September, 2009  
Brain Mind Institute, Ecole Polytechnique Federale de Lausanne, Lausanne,- Ann Neurol. 2009 Jul;66(1):117-22. ([DOI Direct Link](#))
  - [The NBDs that wouldn't die: A cautionary tale of the use of isolated nucleotide binding domains of ABC transporters.](#)  
*COMATOSE (CTS), the plant homologue of Adrenoleukodystrophy protein, is a...*26th August, 2009  
Centre for Plant Sciences; University of Leeds; Leeds, UK.- Commun Integr Biol. 2009 Mar;2(2):97-9.
  - [Pre-symptomatic molecular diagnosis of X-linked adrenoleukodystrophy in Chinese families.](#)  
*OBJECTIVE: To identify asymptomatic males with X-linked...*8th August, 2009  
- Neurol Res. 2009 Aug 5. ([DOI Direct Link](#))
  - [Peroxisomal dysfunction in inflammatory childhood white matter disorders: an unexpected contributor to neuropathology.](#)  
*The peroxisome, an ubiquitous subcellular organelle, plays an important...*17th July, 2009  
Department of Pediatrics, Division of Developmental Neurogenetics, Charles- J Child Neurol. 2009 Sep;24(9):1147-57. Epub 2009 Jul 15. ([DOI Direct Link](#))

## BioNews Results for Adrenoleukodystrophy

- [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Reuters: Nov 12 2009 5:38PM Matching: adrenoleukodystrophy*
- [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Street Insider: Nov 12 2009 5:29PM Matching: adrenoleukodystrophy*
- [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)

- FinanzNachrichten.de: Nov 12 2009 5:17PM Matching: adrenoleukodystrophy*
- [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Globe Investor: Nov 12 2009 5:11PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Yahoo! Canada: Nov 12 2009 5:47PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\) Gene Therapy Techn](#)  
*CNBC: Nov 12 2009 5:27PM Matching: adrenoleukodystrophy*
  - [French scientists appear to halt rare brain disease in 2 boys with new gene therapy approach](#)  
*Medbroadcast: Nov 12 2009 10:08AM Matching: adrenoleukodystrophy*
  - [French scientists appear to halt rare brain disease in 2 boys with new gene therapy approach](#)  
*Canada East: Nov 10 2009 6:30AM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Pharma Live: Nov 9 2009 4:41PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans To Treat Adrenoleukodystrophy \(ALD\)](#)  
*Medical News Today: Nov 9 2009 12:45PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy](#)  
*Genomics News: Nov 9 2009 2:05PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals develops a gene therapy product to treat ALD](#)  
*News-Medical.Net: Nov 7 2009 5:18AM Matching: adrenoleukodystrophy*
  - [New gene therapy halts brain disease in 2 boys](#)  
*Mainichi Daily News: Nov 7 2009 3:14AM Matching: adrenoleukodystrophy*
  - [Medical News: 2 Children Suffering From Adrenoleukodystrophy Saved Thanks To The ELA Association](#)  
*BioFind: Nov 6 2009 4:50PM Matching: adrenoleukodystrophy*
  - [Genetix Pharmaceuticals Announces Global Clinical Plans to Treat Adrenoleukodystrophy \(ALD\)](#)  
*Individual.com: Nov 6 2009 2:24PM Matching: adrenoleukodystrophy*

#### Adrenoleukodystrophy Clinical Trials:



- [A Phase III Trial of Lorenzo's Oil in Adrenomyeloneuropathy](#)

#### Adrenoleukodystrophy Patents:



- 7438910- [Therapeutic human anti-IL1-R1 monoclonal antibody](#)
- 7498171- [Modulation of stem and progenitor cell differentiation, assays, and uses thereof](#)
- 7501123- [Human G-protein chemokine receptor \(CCR5\) HDGNR10](#)

- 7504489- [Inhibitors of ADP-ribosyl transferases, cyclases, and hydrolases, and uses thereof](#)
- 7507413- [Albumin fusion proteins](#)
- 7507414- [Albumin fusion proteins](#)
- 7511052- [Pyrimidinyl amide compounds which inhibit leukocyte adhesion mediated by VLA-4](#)
- 7514099- [Lipid nanoparticle based compositions and methods for the delivery of biologically active molecules](#)
- 7517864- [RNA interference mediated inhibition of vascular endothelial growth factor and vascular endothelial growth factor receptor gene expression using short interfering nucleic acid \(siNA\)](#)
- 7521424- [Albumin fusion proteins](#)
- 7534439- [Nucleic sequence and deduced protein sequence family with human endogenous retroviral motifs, and their uses](#)
- 7498047- [Methods for treatment of thiol-containing compound deficient conditions](#)
- 7485414- [Modulators of angiogenesis](#)
- 7485308- [26199, 33530, 33949, 47148, 50226, 58764, 62113, 32144, 32235, 23565, 13305, 14911, 86216, 25206, and 8843 molecules and uses therefor](#)
- 7442506- [Methods for detection of genetic disorders](#)
- 7446098- [Combination therapy for treating protein deficiencies](#)
- 7446176- [12 human secreted proteins](#)
- 7456158- [4-dedimethylaminotetracycline derivatives](#)
- 7459531- [50 Human secreted proteins](#)
- 7462595- [Methods for treating cancer-related fatigue](#)
- 7468276- [Placental stem cells](#)
- 7470718- [Method for treating a demyelinating condition](#)
- 7482013- [Albumin fusion proteins](#)
- 7482147- [Ubiquitin protease](#)
- 7534606- [Placental stem cell and methods thereof](#)
- 7534765- [Pregnancy-induced oligodendrocyte precursor cell proliferation regulated by prolactin](#)
- 7592010- [Albumin fusion proteins](#)
- 7592321- [Methods of treating lysosomal storage related diseases by gene therapy](#)
- 7595318- [Polyethylene glycol conjugates of heterocycloalkyl carboxamido propanoic acids](#)
- 7598031- [Method for the detection of gene transcripts in blood and uses thereof](#)
- 7598060- [Rapid analysis of variations in a genome](#)
- 7604990- [Methods of regulating differentiation in stem cells](#)
- 7605005- [Method of screening for agents that modulate Tysnd1 level or activity in a cell.](#)
- 7605239- [Skeletal-targeted radiation to treat bone-associated pathologies](#)
- 7611879- [27877, 18080, 14081, 32140, 50352, 16658, 14223, 16002, 50566, 65552 and 65577 molecules and uses therefor](#)
- 7612104- [Bicyclic aryl-sulfonic acid \[1,3,4\]-thiadiazol-2-yl-amides, processes for their preparation, pharmaceutical compositions and methods for their use](#)
- 7579372- [Histone deacetylase inhibitors based on alpha-ketoepoxide compounds](#)
- 7579188- [Oligodendrocytes derived from human embryonic stem cells for remyelination and treatment of spinal cord injury](#)
- 7578998- [Chimeric cytokine of IL-7 and beta-chain of HGF and methods of use](#)
- 7534803- [Method of treating demyelinating diseases or conditions](#)
- 7541464- [7-azaindoles, pharmaceutical compositions and their therapeutic applications](#)
- 7550286- [Docosahexaenoic acid producing strains of Yarrowia lipolytica](#)
- 7560449- [Methods and therapeutic combinations for the treatment of demyelination](#)
- 7563591- [Method for assaying the activity of lysosomal enzymes](#)
- 7569384- [Albumin fusion proteins](#)
- 7569385- [Multipotent amniotic fetal stem cells](#)
- 7569544- [Methods of increasing delivery of active agents to brain comprising administering receptor associated protein \(RAP\) fragments conjugated to active agents](#)
- 7576101- [Composition for and treatment of demyelinating diseases and paralysis by administration of](#)

[remyelinating agents](#)

- 7576109- [1,3,4-oxadiazol-2-ones as PPAR delta modulators and their use thereof](#)
- 7612107- [Treatment and inhibition of disease conditions using flexible heteroarotinoids](#)

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