

# Welcome to LinkOut

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LinkOut is a service of Entrez that allows you to link directly from PubMed and other Entrez databases to a wide range of information and services extending beyond the Entrez system. LinkOut aims to facilitate access to relevant online resources to extend, clarify, and supplement information found in the Entrez databases.

LinkOut provides access to a variety of relevant online resources, including full-text publications, biological databases, consumer health information, and research tools, directly from PubMed and other Entrez databases. All links are specially assigned to specific citations and database records. When accessing a link through LinkOut, no additional searching will be necessary to access the relevant resource that has been linked to the citation or database record.

Links are supplied by LinkOut resource providers. LinkOut resource providers are responsible for supplying and maintaining their links. We work with the providers to minimize errors. Please report broken links to [linkout@ncbi.nlm.nih.gov](mailto:linkout@ncbi.nlm.nih.gov) for repair.

Information about LinkOut is also available on the LinkOut website [<http://www.ncbi.nlm.nih.gov/projects/linkout/doc/linkout.html>].

For additional information about the various types of links found in Entrez, please see Databases [[http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helpentrez.section.EntrezHelp.The\\_Databases](http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helpentrez.section.EntrezHelp.The_Databases)] in Entrez Help [<http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=helpentrez.chapter.EntrezHelp>].

## Examples of LinkOut Resources

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Click the links to see examples of LinkOut resources.

### From the PubMed database:

Online full text [[http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&list\\_uids=11857108&dopt=Abstract](http://www.ncbi.nlm.nih.gov/sites/entrez?cmd=Retrieve&db=PubMed&list_uids=11857108&dopt=Abstract)]

– Links to online full text from publishers and from PubMed Central appear in PubMed's Abstract and Citation displays.

Library holdings [[http://www.ncbi.nlm.nih.gov/sites/entrez?holding=psrmlib&cmd=Retrieve&db=PubMed&list\\_uids=12204079&dopt=Abstract](http://www.ncbi.nlm.nih.gov/sites/entrez?holding=psrmlib&cmd=Retrieve&db=PubMed&list_uids=12204079&dopt=Abstract)]

– Library holdings may be online full text available from the library's provider or a record of print holdings.

Consumer health information [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=PubMed&term=LoProvMEDPLUS%5bSB%5d+NOT+full+text%5bsb%5d+AND+%22Asperger+Syndrome%22%5bmajr:noexp%5d>]

– This example shows articles with links to the MedlinePlus consumer health resource.

Commentaries on articles [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=PubMed&term=LoProv1000%5bSB%5d%20+NOT+full+text%5bsb%5d>]

– Links to commentaries or discussion to extend/continue the topic discussed in the article cited in a PubMed citation. Commentaries appear under "Other Literature Sources".

Supplemental materials [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=PubMed&term=LoProvfrmridc%5bsb%5d>] – Supplemental materials are the materials directly supporting the research discussed in the cited article, including data sets from experiments/studies, accessory graphics, images, and sound and multimedia files related to the article.

Practice guidelines [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=PubMed&term=LoProvNGC%5bSB%5d+NOT+full+text%5bsb%5d>] – This example shows citations with links to the National Guideline Clearinghouse.

#### **From the Nucleotide and Protein databases:**

Genome databases, for example, FlyBase [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=Nucleotide&term=LoProvflybase%5bSB%5d>]

Links to suppliers of research materials - RZPD German Resource Center for Genome Research [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=Nucleotide&term=LoProvRZPD%5bSB%5d>]

Research tools - UCSC Genome Browser [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=External-Link&cmd=Search&db=Nucleotide&term=LoProvUCSCgb%5bsb%5d>]

#### **From the OMIM database:**

Diagnostic tools - University of Washington GeneClinics [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=OMIM&term=LoProvGT%5bSB%5d>] – Some resources, like this diagnostic tool, link from several NCBI databases.

Molecular biology databases - Low Density Lipoprotein Receptor Mutation Database [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=OMIM&term=LoProvLDLR%5bSB%5d>]

Genome databases - Jackson Laboratory Mouse Genome Database [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=OMIM&term=LoProvMGD%5bSB%5d>]

#### **From the Taxonomy database:**

Links from the Taxonomy database provide a variety of information about the entry term, for example:

Resources related to *Ginkgo biloba*, including toxicity, medicinal value, and a picture of the plant [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=taxonomy&term=ginkgo+biloba>]

Biological information about fish species in FishBase [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=taxonomy&term=LoProvFishBase%5bSB%5d+AND+species%5brank%5d>]

Images of plants, animals, fossils, people, and landscapes from CalPhotos [<http://www.ncbi.nlm.nih.gov/sites/entrez?doptcmdl=ExternalLink&cmd=Search&db=taxonomy&term=LoProvCalPhotos%5bSB%5d>]

#### **Other databases:**

LinkOut resources are also available in other Entrez databases. See Databases Available for Linking for a complete list of database that may have LinkOut resources.

## **Additional Assistance**

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Your local librarian will be best equipped to help you discover LinkOut resources available through your institution or library. Please talk to your librarian about using LinkOut.

Send comments and suggestions about LinkOut and report broken links to [linkout@ncbi.nlm.nih.gov](mailto:linkout@ncbi.nlm.nih.gov).