

PublisherInfo		
PublisherName	:	BioMed Central
PublisherLocation	:	London
PublisherImprintName	:	BioMed Central

## Neuroferritinopathy

ArticleInfo		
ArticleID	:	4159
ArticleDOI	:	10.1186/gb-spotlight-20010726-01
ArticleCitationID	:	spotlight-20010726-01
ArticleSequenceNumber	:	230
ArticleCategory	:	Research news
ArticleFirstPage	:	1
ArticleLastPage	:	2
ArticleHistory	:	RegistrationDate : 2001-07-26 OnlineDate : 2001-07-26
ArticleCopyright	:	BioMed Central Ltd2001
ArticleGrants	:	
ArticleContext	:	130592211

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In the Advance Online issue of [Nature Genetics](#), Andrew Curtis and colleagues from the [Institute of Human Genetics](#) in Newcastle, UK, describe a new genetic disease that they have named 'neuroferritinopathy'. The neurological disease is characterized by adult-onset degeneration of the basal ganglia and extrapyramidal dysfunction. Affected individuals live within a 40km radius of the home of the earliest founder, a member of a local family from Cumbria, UK. Curtis *et al.* performed linkage analysis to map the disease gene to chromosome 19q13.3. The disease locus contains the gene encoding ferritin light polypeptide (FTL). In six local patients they found a mutation causing an adenine insertion at position 460, which changes the carboxy-terminal residues of the protein. They found that patients had low serum ferritin levels and ferritin-positive inclusions in the basal ganglia and the brain. Mutations in the iron-responsive element of the *FTL* gene have been described in hereditary [hyperferritemia cataract syndrome](#) and iron metabolism has been linked to neurodegenerative disease in mice.

## References

1. *Nature Genetics* , [<http://genetics.nature.com>]
2. Institute of Human Genetics , [<http://www.ncl.ac.uk/sbg/humgen.html>]
3. Hyperferritemia cataract syndrome, [<http://www.ncbi.nlm.nih.gov:80/entrez/dispomim.cgi?id=600886>]
4. Targeted deletion of the gene encoding iron regulatory protein-2 causes misregulation of iron metabolism and neurodegenerative disease in mice.