



PARKINSON'S DISEASE NEWS

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NEW GENETIC CAUSE OF PARKINSON'S DISEASE

A new genetic cause of Parkinson's Disease has been discovered called CHCHD2. CHCHD2 is associated with the development of Parkinson's Disease. Most genetic causes of Parkinson's Disease do not inevitably cause Parkinson's Disease but make the person affected more likely to develop Parkinson's Disease.



The full name of the genetic cause is : Coiled-coil-helix-coiled-coil-helixdomain containing 2. The gene is on the Chromosome 7p11.2. The function of the gene is to mediate oxygen-dependent expression of cytochrome c oxidase subunit 4-2 gene expression. The researchers do not know how this function inclines somebody towards Parkinson's Disease. The type of inheritance is autosomal dominant, which means that if the abnormal gene is inherited from only one parent you can get the disease. Often, one of the parents may also have the disease. This gene is associated with an increased likelihood of Parkinsons' Disease.

There are now at least 32 known genetic causes of Parkinson's Disease : PARK 1 to 3, PARK 4 to 20, Tyrosine Hydroxylase deficiency, Aromatic L-amino acid decarboxylase deficiency, CHCHD2, CYP2D6, DRD2, DRD3, GLIS1, LINGO1, MAPT, NRA42, PITX3, RIT2, STH. Details of individual genes can freely accessed at <http://www.ncbi.nlm.nih.gov/gene>

Reference : The Lancet Neurology [2015] 14 (3) : 274-282 (M.Funayama, K.Ohe, T.Amo, N.Furuya, J.Yamaguchi, S.Saiki, Y.Li, K.Ogaki, M.Ando, H.Yoshino, H.Tomiyama, K.Nishioka, K.Hasegawa, H.Saiki, W.Satake, K.Mogushi, R.Sasaki, Y.Kokubo, S.Kuzuhara, T.Toda, Y.Mizuno, Y.Uchiyama, K.Ohno, N.Hattori)

Complete abstract : <http://www.ncbi.nlm.nih.gov/pubmed/25662902>

<http://www.viartis.net/parkinsons.disease/news/150430.pdf>

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