

Supplementary Table 1: The current list of locus symbols for hereditary parkinsonism.<sup>1, 2</sup>

<b>Symbol</b>	<b>Gene locus</b>	<b>Gene</b>	<b>Inheri- tance</b>	<b>Status and remarks</b>
<i>PARK1</i>	4q21-22	<i>SNCA</i>	AD	Confirmed
<i>PARK2</i>	6q25.2-q27	<i>PARK2</i> <i>encoding</i> <i>Parkin</i>	AR	Confirmed
<i>PARK3</i>	2p13	Unknown	AD	Unconfirmed;  May represent a risk factor; Gene not found since first described in 1998
<i>PARK4</i>	4q21-q23	<i>SNCA</i>	AD	Erroneous locus (identical to <i>PARK1</i> )
<i>PARK5</i>	4p13	<i>UCHL1</i>	AD	Unconfirmed (not replicated since described in 1998)
<i>PARK6</i>	1p35-p36	<i>PINK1</i>	AR	Confirmed

<i>PARK7</i>	1p36	<i>PARK7</i> <i>encoding</i> <i>DJ-1</i>	AR	Confirmed
<i>PARK8</i>	12q12	<i>LRRK2</i>	AD	Confirmed;  Variations in <i>LRRK2</i> gene include risk-conferring variants and disease-causing mutations.
<i>PARK9</i>	1p36	<i>ATP13A2</i>	AR	Confirmed
<i>PARK10</i>	1p32	Unknown	Risk factor	N/A
<i>PARK11</i>	2q36-27	Unknown	AD	Initially described mutations in the GIGYF2 gene later found also in controls; no replication studies confirmed GIGYF2 as causative of PD
<i>PARK12</i>	Xq21-q25	Unknown	Risk	N/A

			factor	
<i>PARK13</i>	2p12	<i>HTRA2</i>	AD or risk factor	Unconfirmed
<i>PARK14</i>	22q13.1	<i>PLA2G6</i>	AR	Confirmed;  The majority of cases do not include parkinsonism
<i>PARK15</i>	22q12-q13	<i>FBX07</i>	AR	Confirmed
<i>PARK16</i>	1q32	Unknown	Risk factor	N/A
<i>PARK17*</i>	4p16	<i>VPS35</i>	AD	Confirmed
<i>PARK18*</i>	6p21.3	<i>EIF4G1</i>	AD	Unconfirmed
<i>PARK19*</i>	1p31.3	<i>DNAJC6</i>	AR	Confirmed
<i>PARK20*</i>	21q22.11	<i>SYNJ1</i>	AR	Confirmed

AD, autosomal dominant; AR, autosomal recessive.

\*Not approved by HGNC

Supplementary Table 2: The list of locus symbols for hereditary dystonias<sup>3</sup>

<b>Symbol</b>	<b>Locus</b>	<b>Gene</b>	<b>Inheritance</b>	<b>Comments</b>
<i>DYT1</i>	9q32-q34	<i>TOR1A</i>	AD	Confirmed
<i>DYT2</i>	Missing	Unknown	AR	Unconfirmed; Missing locus, cases are being lumped on the basis of inheritance pattern alone
<i>DYT3</i>	Xq13.1	<i>TAF1?</i>	XR	The pathogenicity of TAF1 gene mutations remains unconfirmed.
<i>DYT4</i>	19p13.3	<i>TUBB4a</i>	AD	Unconfirmed; (but found in the same family by two independent groups) Missing locus
<i>DYT5a</i>	14q22.1-22.2	<i>GCH1</i>	AD	Confirmed
<i>DYT5b</i>	11p15.5	<i>TH</i>	AR	Confirmed
	2p14-p12	<i>SPR</i>	AR	Not listed
<i>DYT6</i>	8p11.1	<i>THAP1</i>	AD	Confirmed
<i>DYT7</i>	18p	Unknown	AD	Unconfirmed (not replicated since first described in 1996)*
<i>DYT8</i>	2q35	<i>MR1</i>	AD	Confirmed
<i>DYT9</i>	1p31	<i>SLC2A1</i>	AD	Confirmed

<i>DYT10</i>	16p11.2- q12.1	Unknown	AD	Confirmed
<i>DYT11</i>	7q21.3	<i>SGCE</i>	AD	Confirmed
<i>DYT12</i>	19q13.2	<i>ATP1A3</i>	AD	Confirmed;  Not represented in the 'PARK' list
<i>DYT13</i>	1p36	Unknown	AD	Unconfirmed (not replicated since first described in 2001)
<i>DYT14</i>	11p15.5	<i>GCH1</i>	AD	Erroneous locus (identical to <i>DYT5a</i> )
<i>DYT15</i>	18p11	Unknown	AD	Unconfirmed (not replicated since first described in 2002)
<i>DYT16</i>	2q31.2	<i>PRKRA</i>	AR	Confirmed <sup>4</sup>
<i>DYT17</i>	20p11.22 -q13.12	Unknown	AR	Unconfirmed (not replicated since symbol in 2008)
<i>DYT18</i>	1p34.2	<i>SLC2A1</i>	AD	Identical to <i>DYT9</i>
<i>DYT19**</i>	16q	<i>PRRT2</i>	AD	Identical to <i>DYT10</i>
<i>DYT20**</i>	2q	Unknown	AD	Unconfirmed (clinical overlap with <i>PNKD1</i> ; locus very close to <i>DYT8</i> )
<i>DYT21**</i>	2q14.3- q21.3	Unknown	AD	Unconfirmed

<i>DYT22</i>	None	None		Symbol officially accepted by HGNC but no associated locus or gene recorded.
<i>DYT23</i>	9q34	<i>CIZ1</i>	AD	Unconfirmed
<i>DYT24</i> **	11p14.2	<i>ANO3</i>	AD	Unconfirmed
<i>DYT25</i> **	18p11.21	<i>GNAL</i>	AD	Confirmed

AD, autosomal dominant; AR, autosomal recessive; XR, X-linked recessive

\*Unconfirmed but supported by the description of several patients with an 18p deletion syndrome and co-occurrence of dystonia.

\*\*Not approved by HGNC.

Supplementary Table 3: The current list of episodic ataxias <sup>5</sup>

Symbol	Locus	Gene	Inheri-tance	Status or comments
EA-1	12p13	<i>KCNA1</i>	AD	Confirmed
EA-2	19p13	<i>CACNA1A</i>	AD	Confirmed
EA-3	Unconfirmed	Unknown	AD	Linkage to 1q42 proposed <sup>6</sup>
EA-4	Unknown	Unknown	AD	
EA-5	2q22-q23	<i>CACNB4</i> *	AD	Unconfirmed
EA-6	5p13	<i>SLC1A3</i>	AD	Confirmed
EA-7	Unconfirmed	Unknown	AD	Candidate region 19q13 identified <sup>7</sup>

\*Allelic to juvenile myoclonic epilepsy



Supplementary Table 4: Current list of SCA loci and genes<sup>8, 9</sup>

	<b>Locus</b>	<b>Gene</b>	<b>Inheritance</b>	<b>Status or comments</b>
<b>SCA1</b>	6p23	<i>ATXN1</i>	AD	Confirmed
<b>SCA2</b>	12q24.1	<i>ATXN2</i>	AD	Confirmed
<b>SCA3</b>	14q21	<i>ATXN3</i>	AD	Confirmed
<b>SCA4</b>	16q22.1	-	AD	Unconfirmed
<b>SCA5</b>	11q13	<i>SPTBN2</i>	AD	Confirmed
<b>SCA6</b>	19p13	<i>CACNA1A</i>	AD	Confirmed
<b>SCA7</b>	3p21.1-p12	<i>ATXN7</i>	AD	Confirmed
<b>SCA8</b>	13q21	<i>ATXN8OS</i>	AD	Confirmed
<b>SCA9</b>	-	-	AD	Unconfirmed, no locus
<b>SCA10</b>	22q13.31	<i>ATXN10</i>	AD	Confirmed
<b>SCA11</b>	15q15.2	<i>TTBK2</i>	AD	Confirmed
<b>SCA12</b>	5q32	<i>PPP2R2B</i>	AD	Confirmed
<b>SCA13</b>	19q13.33	<i>KCNC3</i>	AD	Confirmed

<b>SCA14</b>	19q13.4	<i>PRKCG</i>	AD	Confirmed
<b>SCA15</b>	3p26.1	<i>ITPR1</i>	AD	Confirmed  SCA15 and SCA16 are allelic
<b>SCA16</b>	3p26.1	<i>ITPR1</i>	AD	Confirmed  SCA15 and SCA16 are allelic
<b>SCA17</b>	6q27	<i>TBP</i>	AD	Confirmed
<b>SCA18</b>	7q22-32	-	AD	Unconfirmed
<b>SCA19</b>	1p21-q21	<i>KCND3</i>	AD	Confirmed  SCA19 and SCA22 are allelic
<b>SCA20</b>	11q12		AD	Unconfirmed
<b>SCA21</b>	7p21.3-p15.1	<i>TMEM240</i>	AD	Confirmed
<b>SCA22</b>	1p21-q21	<i>KCND3</i>	AD	Confirmed  SCA19 and SCA22 are allelic
<b>SCA23</b>	20p13	<i>PDYN</i>	AD	Confirmed

<b>SCA24</b>	1p36	-	AR	Autosomal recessive (SCAR4)
<b>SCA25</b>	2p21-p13	-	AD	Unconfirmed
<b>SCA26</b>	19p13.3	<i>eEF2</i>	AD	Unconfirmed
<b>SCA27</b>	13q34	<i>FGF14</i>	AD	Confirmed
<b>SCA28</b>	18p11	<i>AFG3L2</i>	AD	Confirmed
<b>SCA29</b>	3p26	<i>ITPR1</i>	AD	Congenital ataxia
<b>SCA30</b>	4q34.3-q35.1	-	AD	Unconfirmed
<b>SCA31</b>	16q21	<i>BEAN1</i>	AD	Confirmed  Previously referred to as SCA4
<b>SCA32</b>	7q32-33	-	AD	Unconfirmed
<b>SCA34</b>	6p12.3-q16.2	-	AD	Unconfirmed
<b>SCA35</b>	20p13	<i>TGM6</i>	AD	Confirmed
<b>SCA36</b>	20p13	<i>NOP56</i>	AD	Confirmed
<b>SCA37</b>	1p32	-	AD	Unconfirmed
<b>SCA38</b>	6p	<i>ELOVL5</i>	AD	Confirmed <sup>10</sup>

<b>SCA40</b>	14q32	<i>CCDC88C</i>	AD	Unconfirmed <sup>11</sup>
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Supplementary Table 5: The current list of HD/HDL loci and genes<sup>12</sup>

Locus Symbol	Locus	Gene	Inheritance	Status and remarks
Huntington's disease (HD)	4p16.3	<i>HTT</i>	AD	Confirmed
HDL 1	20.p13	<i>PRNP</i>	AD	Confirmed
HDL 2	16q24.2	<i>JPH3</i>	AD	Confirmed
HDL 3	4p15.3	Unknown	AR	No known gene
HDL 4	6q27	<i>TBD</i>	AD	Confirmed. Also known as SCA17;

Supplementary Table 6: Monogenic forms of hereditary spastic paraplegias (HSPs) <sup>13</sup>,

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<b>Symbol</b>	<b>Gene locus</b>	<b>Inheritance</b>	<b>Gene</b>	<b>status and remarks</b>
SPG1	Xq28	XR	<i>L1CAM</i>	confirmed
SPG2	Xq21	XR	<i>PLP1</i>	confirmed
SPG3A	14q11-q21	AD/AR	<i>ATL1</i>	confirmed
SPG4	2p22	AD	<i>SPAST</i>	confirmed
SPG5A	8q12-q13	AR	<i>CYP7B1</i>	confirmed
SPG5B	Linkage to chromosome 8	AR	<i>Unknown</i>	unconfirmed
SPG6	15q11.1	AD	<i>NIPA1</i>	confirmed
SPG7	16q24.3	AR/AD	<i>SPG7</i>	confirmed
SPG8	8q24.13	AD	<i>KIAA0196</i>	confirmed

SPG9	10q23.3- 24.1	AD	<i>Unknown</i>	confirmed
SPG10	12q13.3	AD	<i>KIF5A</i>	confirmed
SPG11	15q21	AR	<i>KIAA1840</i>  <i>Spatacsin</i>	confirmed
SPG12	19q13	AD	<i>RTN2</i>	confirmed
SPG13	2q33.1	AD	<i>HSPD1</i>	confirmed
SPG14	3q27-q28	AR	<i>Unknown</i>	unconfirmed
SPG15	14q22-q24	AR	<i>ZFYVE26</i>	confirmed
SPG16	Xq11.2	XR	Unknown	unconfirmed
SPG17	11q12.3	AD	<i>BSCL2</i>	confirmed
SPG18	8p11.23	AR	<i>ERLIN2</i>	confirmed
SPG19	9q33-q34	AD	Unknown	unconfirmed
SPG20	13q12.3	AR	<i>Spartin</i>	confirmed
SPG21	15q22.31	AR	<i>ACP33</i>	confirmed
SPG22	Xq13.2	XR	<i>SLC16A2</i>	confirmed
SPG23	1q24-q32	AR	Unknown	confirmed

SPG24	13q14	AR	Unknown	unconfirmed
SPG25	6q23.3- q24.1	AR	Unknown	unconfirmed
SPG26	12p11.1- q14	AR	<i>B4GALNT1</i>	confirmed
SPG27	10q22.1- q24.1	AR	Unknown	unconfirmed
SPG28	14q22.1	AR	<i>DDHD1</i>	confirmed
SPG29	1p31.1-21.1	AD	Unknown	unconfirmed
SPG30	2q37	AR	<i>KIF1A</i>	confirmed
SPG31	9p21	AD	<i>REEP1</i>	confirmed
SPG32	14q12-q21	AR	Unknown	unconfirmed
SPG33	10q24.2	AD	<i>ZFYVE27</i>	confirmed
SPG34	Xq25	XR	Unknown	unconfirmed
SPG35	16q23.1	AR	<i>FA2H</i>	confirmed
SPG36	12q23-24	AD	Unknown	unconfirmed
SPG37	8p21.1- q13.3	AD	Unknown	unconfirmed



SPG38	4p16-p15	AD	Unknown	unconfirmed
SPG39	19p13.2	AR	<i>PNPLA6/NT E</i>	confirmed
SPG40	Unknown, several loci excluded	AD	Unknown	unconfirmed
SPG41	11p14.1- p11.2	AD	Unknown	unconfirmed
SPG42	3q24-q26	AD	<i>SLC33A1</i>	unconfirmed
SPG43	19q12	AR	<i>C19orf12</i>	confirmed
SPG44	1q42.13	AR	<i>GJC2</i> or <i>GJA12</i>	unconfirmed
SPG45	10q24.3- q25.1	AR	<i>NT5C2</i>	confirmed
SPG46	9p13.3	AR	<i>GBA2</i>	confirmed
SPG47	1p13.2-	AR	<i>AP4B1</i>	confirmed
SPG48	7p22.1	AR	<i>KIAA0415</i>	confirmed
SPG49	14q32.31	AR	<i>TECPR2</i>	confirmed

SPG50	7q22.1	AR	<i>AP4M1</i>	confirmed
SPG51	15q21.2	AR	<i>AP4E1</i>	confirmed
SPG52	14q12	AR	<i>AP4S1</i>	unconfirmed
SPG53	8p22	AR	<i>Vps37A</i>	unconfirmed
SPG54	8p11.23	AR	<i>DDHD2<sup>15</sup></i>	confirmed
SPG55	12q24	AR	<i>C12orf65</i>	confirmed
SPG56	4q25	AR	<i>CYP2U1</i>	unconfirmed
SPG57	3q12.2	AR	<i>TFG<sup>16</sup></i>	unconfirmed
SPG58	17p13.2	AR	<i>KIF1C<sup>17</sup></i>	confirmed
SPG59	15q21.2	AR	<i>USP8<sup>17</sup></i>	unconfirmed
SPG60	3p22.2	AR	<i>WDR48<sup>17</sup></i>	unconfirmed
SPG61	16p12.3	AR	<i>ARL6IP1<sup>17</sup></i>	unconfirmed
SPG62	10q24.31	AR	<i>ERLIN1<sup>17</sup></i>	confirmed
SPG63	1p13.3	AR	<i>AMPD2<sup>17</sup></i>	unconfirmed
SPG64	10q24.1	AR	<i>ENTPD1<sup>17</sup></i>	unconfirmed
SPG65	10q24.32	AR	<i>NT5C2<sup>17</sup></i>	Also designated SPG45

SPG66	5q32	AR	<i>ARSI</i> <sup>17</sup>	unconfirmed
SPG67	2q33.1	AR	<i>PGAP1</i> <sup>17</sup>	unconfirmed
SPG68	11q13.1	AR	<i>FLRT1</i> <sup>17</sup>	unconfirmed
SPG69	1q41	AR	<i>RAB3GAP2</i> <sup>17</sup>	unconfirmed
SPG70	12q13.3	AR	<i>MARS</i> <sup>17</sup>	unconfirmed
SPG71	5p13.3	AR	<i>ZFR</i> <sup>17</sup>	unconfirmed
SPG72	5q31.2	AD/AR	<i>REEP2</i> <sup>18</sup>	unconfirmed

AD, autosomal dominant; AR, autosomal recessive, XR, X chromosome recessive.

Supplementary Table 7: The previous list of locus symbols for primary familial brain calcification<sup>19, 20</sup>

Symbol	Gene locus	Inheritance	Gene symbol	Status and remarks
IBGC1	14q13	AD	-	Incorrect - Family later found to have a mutation in SLC20A2.
IBGC2	2q37	AD	-	Linkage to this locus found in one family. <sup>21</sup> Awaits independent confirmation.
IBGC3	8p21.1– 8q11.23	AD	<i>SLC20A2</i>	Confirmed
IBGC4	5q32	AD	<i>PDGFRB</i>	Mutations found in one family, segregating with phenotype and one sporadic case. <sup>22</sup> Awaits independent confirmation.
	22q13	AD	<i>PDGFB</i>	Mutations found in six families of varying ethnic origins. <sup>23</sup> Awaits independent confirmation.  No locus symbol assigned.
	1q25.1	AD	<i>XPR1</i>	Mutations found in one family <sup>24</sup>

				Awaits confirmation. No locus symbol assigned
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Supplementary Table 8: The current list of neurodegeneration with brain iron accumulation disorders<sup>25</sup>

<b>Symbol</b>	<b>Gene locus</b>	<b>Inheritance</b>	<b>Gene symbol</b>	<b>Status and remarks</b>
NBIA1	20p13	AR	<i>PANK2</i>	Confirmed, also called PKAN
NBIA2	22q12	AR	<i>PLA2G6</i>	Confirmed, also called PARK14, PLAN
NBIA3	19q13	AD	<i>FTL</i>	Confirmed, also called neuroferritinopathy
NBIA4	19q12	AR	<i>C19orf12</i>	Confirmed, also called SPG43 and MPAN
NBIA5	Xp11.23	X-linked dominant	<i>WDR45</i> (also known as WIPI4)	Confirmed also called SENDA and BPAN.
<b>Symbol</b>	<b>Gene locus</b>	<b>Inheritance</b>	<b>Gene symbol</b>	<b>Status and remarks</b>
NBIA1	20p13	AR	<i>PANK2</i>	Confirmed, also called

				PKAN
NBIA2	22q12	AR	<i>PLA2G6</i>	Confirmed, also called PARK14, PLAN
NBIA3	19q13	AD	<i>FTL</i>	Confirmed, also called neuroferritinopathy
NBIA4	19q12	AR	<i>C19orf12</i>	Confirmed, also called SPG43 and MPAN
NBIA5	Xp11.23	X-linked dominant	<i>WDR45</i> (also known as WIPI4)	Confirmed also called SENDA and BPAN.

FA2H = fatty acid 2-hydroxylase, FTL = ferritin light chain, MPAN – mitochondrial membrane-associated neurodegeneration; NBIA = Neurodegeneration with brain iron accumulation, PANK2 = Pantothenate kinase 2, PKAN = pantothenate kinase-associated neurodegeneration, PLA2G6 = phospholipase A2, PLAN = PLA2G2-associated neurodegeneration, SENDA = static encephalopathy of childhood with neurodegeneration in adulthood, BPAN = Beta-propeller protein-associated neurodegeneration ; SPG = spastic paraplegia.

## References

1. Bonifati V. Genetics of Parkinson's disease--state of the art, 2013. *Parkinsonism & Related Disorders* 2014;20 Suppl 1:S23-28.
2. Trinh J, Farrer M. Advances in the genetics of Parkinson disease. *Nat Rev Neurol* 2013;9:445-454.
3. Klein C. Genetics in dystonia. *Parkinsonism & Related Disorders* 2014;20 Suppl 1:S137-142.
4. Zech M, Castrop F, Schormair B, et al. DYT16 revisited: exome sequencing identifies PRKRA mutations in a European dystonia family. *Mov Disord* 2014;29:1504-1510.
5. Jen JC. Hereditary episodic ataxias. *Annals of the New York Academy of Sciences* 2008;1142:250-253.
6. Cader MZ, Steckley JL, Dymont DA, McLachlan RS, Ebers GC. A genome-wide screen and linkage mapping for a large pedigree with episodic ataxia. *Neurology* 2005;65:156-158.
7. Kerber KA, Jen JC, Lee H, Nelson SF, Baloh RW. A new episodic ataxia syndrome with linkage to chromosome 19q13. *Archives of Neurology* 2007;64:749-752.
8. Verbeek DS, van de Warrenburg BP. The autosomal dominant cerebellar ataxias. *Seminars in Neurology* 2011;31:461-469.
9. Van Gaalen J, Giunti P, van de Warrenburg BP. Movement disorders in spinocerebellar ataxias. *Mov Disord* 2011;26:792-800.
10. Di Gregorio E, Borroni B, Giorgio E, et al. ELOVL5 mutations cause spinocerebellar ataxia 38. *American Journal of Human Genetics* 2014;95:209-217.
11. Tsoi H, Yu ACS, Chen ZS, et al. A novel missense mutation in CCDC88C activates the JNK pathway and causes a dominant form of spinocerebellar ataxia. *Journal of Medical Genetics* 2014.
12. Schneider SA, Walker RH, Bhatia KP. The Huntington's disease-like syndromes: what to consider in patients with a negative Huntington's disease gene test. *Nat Clin Pract Neurol* 2007;3:517-525.
13. Fink JK. Hereditary spastic paraplegia: clinico-pathologic features and emerging molecular mechanisms. *Acta Neuropathol (Berl)* 2013;126:307-328.
14. Salinas S, Proukakis C, Crosby A, Warner TT. Hereditary spastic paraplegia: clinical features and pathogenetic mechanisms. *Lancet Neurology* 2008;7:1127-1138.
15. Gonzalez M, Nampoothiri S, Kornblum C, et al. Mutations in phospholipase DDHD2 cause autosomal recessive hereditary spastic paraplegia (SPG54). *Eur J Hum Genet* 2013;21:1214-1218.
16. Beetz C, Johnson A, Schuh AL, et al. Inhibition of TFG function causes hereditary axon degeneration by impairing endoplasmic reticulum structure. *Proc Natl Acad Sci U S A* 2013;110:5091-5096.
17. Novarino G, Fenstermaker AG, Zaki MS, et al. Exome sequencing links corticospinal motor neuron disease to common neurodegenerative disorders. *Science* 2014;343:506-511.
18. Esteves T, Durr A, Mundwiller E, et al. Loss of association of REEP2 with membranes leads to hereditary spastic paraplegia. *American Journal of Human Genetics* 2014;94:268-277.



19. Hsu SC, Sears RL, Lemos RR, et al. Mutations in SLC20A2 are a major cause of familial idiopathic basal ganglia calcification. *Neurogenetics* 2013;14:11-22.
20. Wang C, Li Y, Shi L, et al. Mutations in SLC20A2 link familial idiopathic basal ganglia calcification with phosphate homeostasis. *Nature Genetics* 2012;44:254-256.
21. Volpato CB, De Grandi A, Buffone E, et al. 2q37 as a susceptibility locus for idiopathic basal ganglia calcification (IBGC) in a large South Tyrolean family. *Journal of Molecular Neuroscience* 2009;39:346-353.
22. Nicolas G, Pottier C, Maltete D, et al. Mutation of the PDGFRB gene as a cause of idiopathic basal ganglia calcification. *Neurology* 2013;80:181-187.
23. Keller A, Westenberger A, Sobrido MJ, et al. Mutations in the gene encoding PDGF-B cause brain calcifications in humans and mice. *Nature Genetics* 2013;45:1077-1082.
24. Giovannini D, Legati A, Sitbon M, Geschwind DH, Coppola G, Battini J-L. Identification of a mutation in the XPR1 gene associated with primary familial brain calcification. 7th SFB35 Symposium; 2014; Vienna: Medizinische Universität Wien.
25. Doorn JM, Kruer MC. Newly characterized forms of neurodegeneration with brain iron accumulation. *Current Neurology & Neuroscience Reports* 2013;13:413.