**Supplementary Table IV. Association of DCD-predicted genes with movement disorders.**

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| **DCD-predicted gene** | **Movement disorder(s) which this gene is linked to** |
| *ATCAY* | Early- and late-onset ataxia |
| *ATP1A3* | Early- and late-onset ataxia, dystonia |
| *CACNA1A* | Early- and late-onset myoclonus, early- and late-onset ataxia, dystonia, paroxysmal movement disorders |
| *CHRNA4* | Dystonia |
| *EEF1A2* | Myoclonus |
| *KIF1A* | Early-onset ataxia, spastic paraplegia |
| *L1CAM* | Spastic paraplegia |
| *MAPT* | Late-onset myoclonus |
| *RTN2* | Spastic paraplegia |
| *SCN2A* | Early- and late-onset myoclonus |
| *SEMA6B* | Early- and late-onset myoclonus |
| *STXBP1* | Early-onset ataxia, early- and late-onset myoclonus |

**Footnote.** Table showing the association of 12 DCD-predicted genes with movement disorders. The 12 abovementioned genes are part of the 200 genes predicted to be functionally similar to the DCD-associated genes based on the network function of the program Metabrain (https://network.metabrain.nl). We compared these genes with genes known to be linked to movement disorders based on gene lists from our hospital (https://www.umcg.nl/-/afdeling/genetica/aanvragen-genoomdiagnostiek) as well as from the Task Force on Genetic Nomenclature in Movement Disorders (Lange LM, et al., Mov Disord. 2022;37(5):905-935). The 12 DCD-predicted genes were mainly associated with ataxia and myoclonus.