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Molecular genetics of monogenic movement disorders

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Propositions accompanying the thesis of Kai Yu Ma

- Distinct familial disease genes that cause the same disease act in common biological pathways (this thesis)
 - Familial disease genes provide key insights in pathological mechanisms leading to disease (this thesis)
 - The mere presence of a variant in familial disease genes does not automatically imply pathogenicity (this thesis)
 - Variations in one gene may cause vastly distinct disease phenotypes (this thesis)
 - Developmental abnormalities in the cerebellum may contribute to late-onset neurodegeneration (this thesis)
 - CRISPR-Cas9-mediated genome editing is becoming the golden standard in functional studies for modeling disease-related variants (this thesis)
 - The possibility of off-target effects is a major limitation of CRISPR-Cas9-mediated genome editing (this thesis)
 - Functional (laboratory) studies are essential to validate big-data-generating *-omics* studies (this thesis)
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- Science would be ruined if it were to put competition above everything else (Benoit Mandelbrot)
- That all men (PhD's) are equal is a proposition which at ordinary times no sane individual has ever given his assent (Aldous Huxley, modified)
- Money it's a crime. Share it fairly, but don't take a slice of my pie (Pink Floyd)
- It is what it is till it ain't (Mac Miller)