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## Therapeutics development for pantothenate kinase-associated neurodegeneration (PKAN)

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# STELLINGEN

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## Therapeutics Development for Pantothenate Kinase-Associated Neurodegeneration (PKAN)

1. Coenzyme A synthesis is more complex than textbooks suggest
2. Globus pallidus has a distinctive requirement for pantothenate kinase 2
3. Defective pantothenate kinase 2 causes biochemical sequelae that can be explained by a decrease in activated mitochondrial acyl carrier protein and recovered by 4'-phosphopantetheine [*This thesis*]
4. Mitochondrial fatty acid synthesis is required to maintain normal basal ganglia function [*This thesis*]
5. Animal models are tools to inform our thinking about human diseases and must be framed with an understanding of their limitations
6. PKAN disease models can be revealing, confusing, and distracting
7. The greatest obstacle to discovery is not ignorance - it is the illusion of knowledge [*Daniel Boorstin*]
8. With time, people become more hardened in their views unless they work to actively keep their mind open to new ideas and information
9. A purpose-driven life that is continually re-focused on what is most important at any given time is full of riches

Susan J. Hayflick

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