The role of impaired de novo Coenzyme A biosynthesis in pantothenate kinase-associated neurodegeneration

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LIST OF PUBLICATIONS

1. Rana A, Erwin Seinen, Katarzyna Siudeja, Remco Muntendam, Balaji Srinivasan, Johannes J. van der Want, Susan Hayflick, Dirk-Jan Reijngoud, Oliver Kayser and Ody C.M. Sibon. Pantethine rescues a *Drosophila* model for Pantothenate Kinase-Associated Neurodegeneration, **PNAS 2010** Apr 13; 107(15):6988-93.

2. Bosveld F, Rana A, van der Wouden PE, Lemstra W, Ritsema M, Kampinga HH, Sibon OC. *De novo* CoA biosynthesis is required to maintain DNA integrity during development of the *Drosophila* nervous system. **Hum Mol Genet. 2008** Jul 1;17 (13):2058-69.

3. Bosveld F, Rana A, Lemstra W, Kampinga HH, Sibon OC. *Drosophila* phosphopantothenoylcysteine synthetase is required for tissue morphogenesis during oogenesis. **BMC Res Notes. 2008** Aug 29;1:75.

4. Yi X, de Vries HI, Siudeja K, Rana A, Lemstra W, Brunsting JF, Kok RM, Smulders YM, Schaefer M, Dijk F, Shang Y, Eggen BJ, Kampinga HH, Sibon OC. Stwl modifies chromatin compaction and is required to maintain DNA integrity in the presence of perturbed DNA replication. **Mol Biol Cell. 2009** Feb;20(3):983-94.

5. Serena Carra, Alessandra Boncoraglio, Bart Kanon, Jeanette F. Brunsting, Melania Minoia, Rana A, Michel J. Vos, Ody C.M. Sibon and Harm H. Kampinga. Identification of the *Drosophila melanogaster* functional homolog of human HspB8: implications of a loss of function mechanism for HspB8-associated peripheral neuropathy. Accepted in **JBC 2010**.

6. Rana A, Verhaag E, Ody C.M. Sibon. The role of impaired Coenzyme A biosynthesis in Pantothenate kinase-associated neurodegeneration. **Manuscript in preparation**.

7. Rana A, Ody C.M. Sibon. Effects of various doses of pantethine in healthy mice. **Manuscript in preparation**.