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Coenzyme A as a central player in cellular and tissue homeostasis

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STELLINGEN

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Coenzyme A as a central player in cellular and tissue homeostasis

Katarzyna Siudeja

1. The best model of a cat is another cat or, better, the cat itself. [*N. Wiener*]
2. Impaired Coenzyme A biosynthesis alters cell cycle progression [*This thesis*], thus it cannot be excluded that it affects actively cycling cells (stem cells) in an adult organism. This could influence negatively the plasticity and regenerative capacity of tissues.
3. Reduced levels of Coenzyme A coincide with reduced acetylation levels of histones and tubulin [*This thesis*], and it is of interest that abnormal acetylation of these "marker" proteins is associated with neurodegenerative conditions.
4. Impaired Coenzyme A metabolism influences actin associated cellular events, such as the regulation of the cell shape, via a conserved mechanism of cofilin inactivation in response to decreased Coenzyme A levels. [*This thesis*]
5. Our notions of family, population and race may need revising in the age of personal genomics. It is not inconceivable that studies investigating the genetic basis of diseases will reveal people's previously unknown cousins, siblings, half-siblings or even parents. [*A. Chakravarti (2009) Nature*]
6. The prospect of a society that entirely rejects the values of science and expertise is too awful to contemplate. [*H. Collins (2009) Nature*]
7. 2050 years ago Eratosthenes calculated (with an amazing precision) the circumference of the Earth and the tilt of the Earth's axis. Yet, even in the XXI century thousands of people have joined the Flat Earth Society created in 1956 to advocate against the idea of the spherical Globe. [*Wikipedia*] Unbelievable is the power of human ignorance.
8. While living in The Netherlands, you quickly learn to always carry your own sunshine. In fact, one should keep carrying it regardless of the geographical location or the weather forecast.
9. In order to obtain a successful scientist mix gently: a piece of an analytical mind, a large quantity of curiosity, spoonful of passion and determination, and a finishing touch of excellent political skills.
10. Happy is he who gets to know the reasons for things. [*Virgil*]