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Identification of a novel multiprotein complex in cargo sorting that preserves metabolic pathways in the liver

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Propositions
Belonging to the PhD Thesis

Identification of a novel multiprotein complex in cargo sorting that preserves metabolic pathways in the liver

1. Conservation of COMMD proteins throughout evolution from lower organisms to vertebrates shows that individual family members have unique and non-redundant functions. /This thesis/
2. The COMM domain is sufficient for the assembly of the CCC complex. /This thesis/
3. COMMD proteins form an extra platform for selective cargo recognition in WASH mediated endosomal cargo sorting. /This thesis/
4. Unique amino acids within the COMMD proteins are responsible for selective cargo recognition of the CCC complex. /This thesis/
5. The COMMDs are moonlighting proteins; in addition to their role in endosomal cargo sorting they also regulate the activity of transcription factors in the nucleus. / This thesis/
6. The identification of proteins involved in vesicular transport pathways will advance therapeutic research to treat cholesterol and copper disorders. /This thesis/
7. Scaffold proteins can serve as targets for many forms of regulatory modulation, thereby allowing the cell to achieve a wide range of behaviors from a limited set of components. / Matthew Good et al, Science 2011; 332:680-6/
8. Truth in science can be defined as the working hypothesis best suited to open the way to the next better one. /Konrad Lorenz, On Aggression /
9. The human brain's habit of finding what it wants to find is a key problem for research. / Nature 2015; 526, 163/
10. If you only read the books that everyone else is reading, you can only think what everyone else is thinking. /Haruki Murakami, Norwegian Wood/

Alina Fedoseienko
Groningen September 19th, 2016