

University of Groningen

## 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