

## University of Groningen

### Sorting out cholesterol metabolism

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## Propositions belonging to the PhD thesis

### Sorting out cholesterol metabolism: Novel insights into the mechanism of endosomal trafficking of lipoprotein receptors

1. To understand the complexity of the endosomal sorting machinery requires the complexity of an *in vivo* model – This thesis
2. Components of the endosomal sorting machinery act in various compositions, enabling the fine-tuning of biological processes, including lipid metabolism – This thesis
3. Individuals with superior endocytic recycling might have lower cardiovascular risk due to improved plasma LDL cholesterol clearance – This thesis
4. Proper lysosomal architecture is not requisite to maintain intracellular cholesterol transport – This thesis
5. Somatic gene editing technology is a versatile and powerful tool to decipher the molecular organization and the physiological role of the endosomal sorting machinery, allowing us to bring research on the endo-lysosomal system to the next level- This thesis
6. Upon suppression or ablation of retromer, retriever, the WASH complex, or the CCC complex, cargos are degraded in lysosomes, suggesting that cargo degradation may be the default pathway –James McNally, trends in biology
7. Our understanding of endosomal sorting has been restricted by a tendency to focus on individual model cargos, and the isolated characterization of protein complexes that define individual sorting events - Peter J Cullen
8. Progress in science depends on new techniques, new discoveries and new ideas, probably in that order – Sydney Brenner
9. If we will only allow that, as we progress, we remain unsure, we will leave opportunities for alternatives – Richard Feynman

Melinde Wijers, November 20<sup>th</sup>, 2019