



Special Seminar

Date: Thursday 22 January 2026

Time: 13:00 to 14:00

Place: Y55-L-12

“Gaining mechanistic insights in chaperone regulation of FG- Nucleoporins”

Tessa Bergsma is a final-year PhD researcher studying the interplay between nuclear pore complex biology, biomolecular phase separation, and chaperone regulation. Her work focused on intrinsically disordered FG-nucleoporins (FG-Nups), which form the selective permeability barrier of the nuclear pore complex, responsible for all transport between the cytosol and nucleus. Using a combination of in vitro reconstitution, quantitative microscopy and image-based analysis, biochemical assays, and yeast cell models, she investigated how chaperones surveil FG-Nup phase transitions and prevent aberrant aggregation, providing insight into the molecular mechanisms that safeguard nuclear pore complex assembly.

Speaker: Tessa Bergsma

Host: Lucas Pelkmans



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