

24-25 November 2022 *Protein aggregation disorders*: an overall concept for protein aggregation and pathological conditions: similarities and variations between condition (spectrum of conditions, genetics, causes) and the path to therapeutics.

## **24- NOV**

### **09:00-09:15 Registration and coffee/tea: (Restaurant building 2 – ground floor)**

Molecular Mechanism regulating protein accumulation and folding: molecular regulators of protein aggregation.

**09:30** Lecture 1: Mitochondrial dysfunction - *Pier Mastroberardino* (Erasmus)

**10:15** Lecture 2: The UPS - *Monique Mulder* (LUMC)

**11:00-11:15** coffee/tea

**11:15** Lecture 4: Autophagy - *Mario Mauthe* (UMCG)

**12:30-13:30** Lunch

**13:30- 15:00** *Protein aggregation structure and single molecule dynamics*

Alireza Mashaghi Tabari (LACDR)– Single molecule approaches for protein aggregation analysis

Patrick van der Wal (Groningen)– structural analysis of aggregated proteins using NMR

Thom Sharp (LUMC)– Imaging the molecular details of protein aggregation with cryoEM

**15:00-15:15** coffee/tea

*Protein aggregation disease models*

**15:15** Spinocerebellar Ataxia - *Ronald Buijsen* (LUMC)

**16:00** Protein aggregation in the clinic: neurologist + patient

**16:45 drinks and meet with the speakers.**

## **25-Nov**

**9:00-10:00** Lecture 5: Dutch ALS centre, from clinics, genetics, disease mechanism, therapeutical approaches and clinical trials. *Pavol Zelina* (Utrecht Medical Centre)

**10:00-10:30** coffee/tea

*Translational session - examples of therapeutic developments:*

**10:30** Lecture 6: Gene therapy development in the lab (AON?) - *Willeke van Roon-Mom* (LUMC)

**11:00** Lecture 7: Vectorized antibodies anti-aggregation as potential therapeutics (*Vered*)

**11:45** Lecture 8: small molecules therapy *Monique Mulder* (LUMC)

**12:30-13:15** Lunch

**13:15-15:30** *Translational development: an interactive session*

**15:30 drinks**