

"Integrated structural studies of saccin using electron microscopy and crystallography"
Progress report - Gehring laboratory
24 November 2017

- 1) Expressed and purified three Saccin internal repeats fragments from Sf9 cells. Prepared baculovirus stock for expression of full-length saccin.
- 2) Received additional panel of 4 single-chain antibodies against Saccin from Structural Genomics Consortium (Susanne Gräslund, Karolinska Institute) for co-crystallization trials.
- 3) Modeled Saccin R272C mutation and measured stability of mutant proteins for publication in preparation by Brais laboratory.
- 4) Studied cultured Purkinje neurons isolated from mouse pups to study the ultrastructural and population changes between wild type and Saccin knock out mice in collaboration with McKinney and Watts groups. Studying cell populations in wild-type and Saccin knock out mice using single cell suspensions quantified by flow cytometry.
- 5) Provided purified Saccin fragments for study of effects on intermediate filament assembly and dynamics for manuscript in preparation by Durham laboratory.