

Keynote talk - An yeast GFP-based platform for functional and structures investigation of SLC transporters

Tuesday, 25 May 2021 14:00 (40)

Recombinant expression screening of eukaryotic membrane proteins for functional and structural investigation is still a trial-and-error process. We have found that cloning gene-strings by homologous recombination into a 2u vector *S. cerevisiae* expression vector and then detecting membrane protein expression and stability by working with GFP-fusions, enables many constructs to be rapidly tested. We have found an excellent correlation between the best-behaving membrane proteins in yeast to those produced by transient transfection in mammalian HEK293 cells. Here, I will outline these GFP-based methods with a focus on ion and sugar SLC transporters.

Presenter(s) : DREW, David (Stockholm University, Sweden)

Session Classification : Session 2 - Chair: Susanna Horsefield