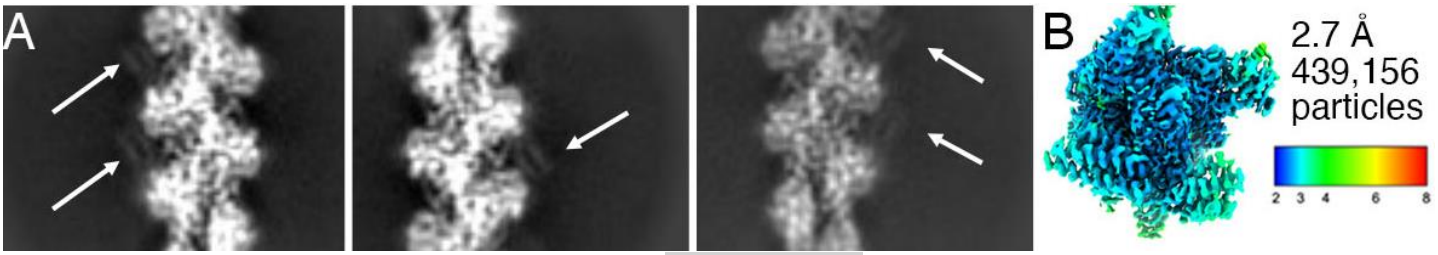

Fig. 1. A, 2D classes of talin ABS2 bound to F-actin (to be published). We processed a preliminary data set and already found decoration of F-actin by talin ABS2 (white arrows). **B**, local and global resolution estimates for talin **(Nature Comm, in press)**.

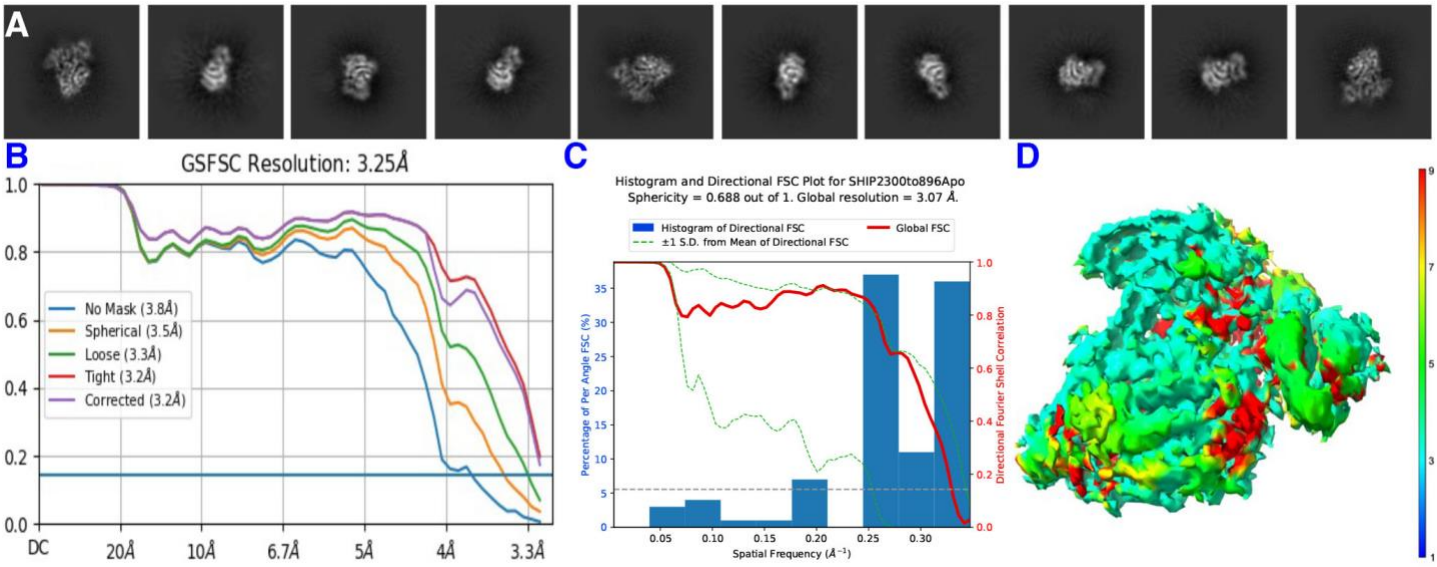

Fig. 2. **Preliminary cryoEM analyses of SHIP2 (to be published)**. **A**, representative 2D class averages for SHIP2. **B**, Gold Standard Fourier Shell Correlation (**GSFSC)** curve with an FSC cutoff of 0.143 is shown. **C**, The Directional Fourier shell correlation plot as obtained from 3dfsc.salk.edu. The red line shows the global Fourier shell correlation (**FSC**), the green lines show the directional resolution spread values defined according to ±1 standard deviation from the mean of the directional resolutions, and the blue bars represent a histogram of 100 directional resolutions evenly sampled over the 3D-FSC. **D**, The resolution of the map as determined based on local resolution estimation in cryoSPARC shown in two different views.

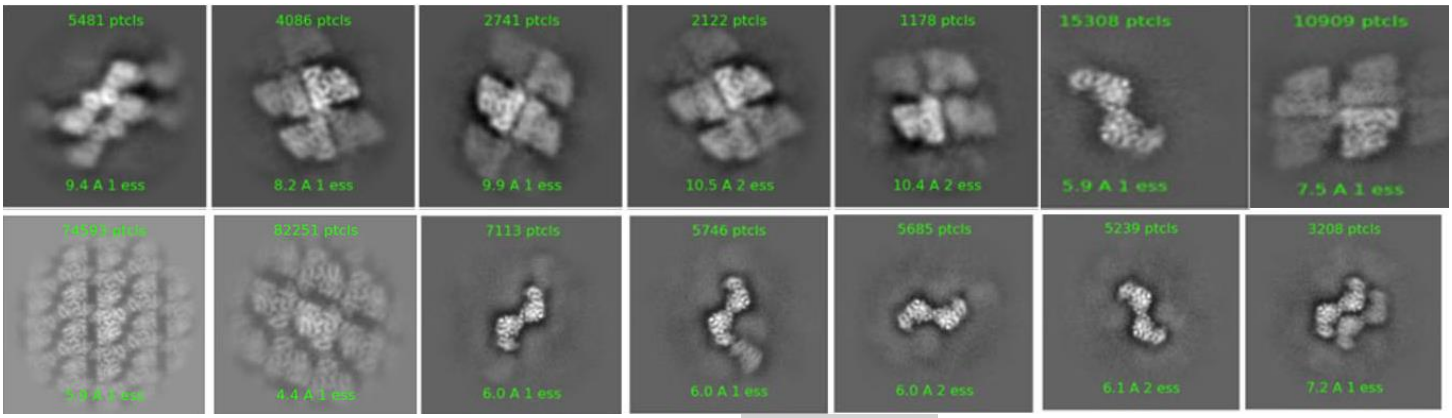

Fig. 3. Membrane-binding induced SHIP2 oligomerization (to be published). Dynamic light scattering analyses of the PHR-phosphatase-C2 domains of SHIP2 without (**A**) or with (**B**) soluble PI(3,4)P_2diC$_8$. A significantly increased hydrodynamic radius and higher polydispersity is seen in presence of lipid. **C**, Preliminary cryoEM analyses of the PHR-phosphatase-C2 domains of SHIP2 bound to a PI(3,4,5)P_3 monolayer show SHIP2 oligomerization upon membrane binding. Shown are representative 2D averages from various datasets collected from the same grid with an angle of -10˚ or -15˚ along the tilt axis, which showed distinct dimers and stacking of dimers indicating possible oligomerization on the lipid monolayer.