



	Experiment title: Tetanus neurotoxin in complex with two Fab human	Experiment number: MX-2121
Beamline: CM01	Date of experiment: from: 19/10/2018 to: 22/10/2018	Date of report: 10/09/2019
Shifts: 9	Local contact(s): Eaazhisai Kandiah	<i>Received at ESRF:</i>

Names and affiliations of applicants (* indicates experimentalists):

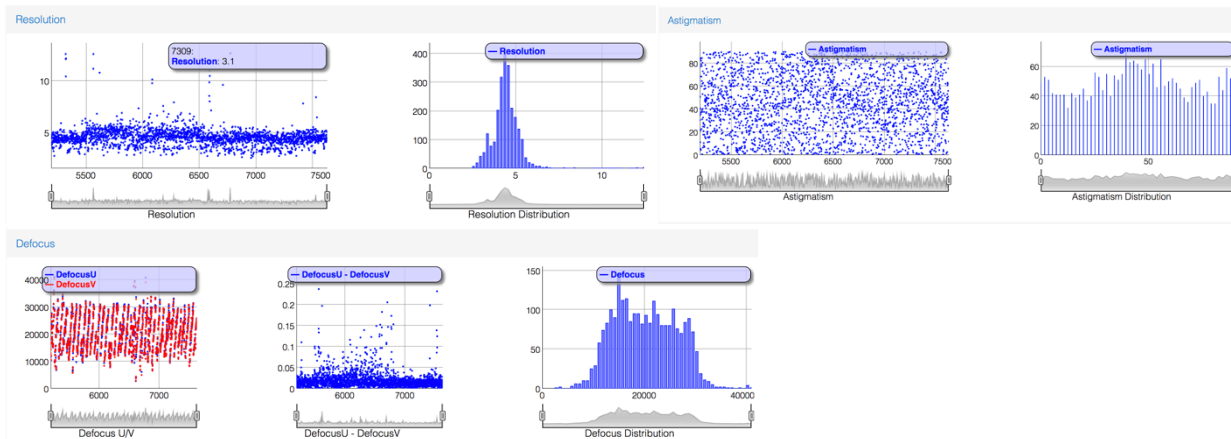
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Report:

The project aimed to reconstruct the 3D structure of tetanus toxin in complex with two human fabs. The allocated beamtime was used to screen over some different condition and collect a dataset of 4364 movies (40 frames, dose of 1.21 e-/Å² per frames, magnification: 130000, pixel size: 1.067 Å/pixel). No inconvenience happened during the acquisitions that gave us a good quality dataset. Data collection was monitored using the ExiMX interface and preliminary data processing (motion correction and CTF estimation) was done simultaneously as the data was collected (**fig. 1**). The resulting aligned micrographs were used for the 2D classification in Relion-3. The 2D classes (**fig. 2**) show promising 2D classes were high-resolution features and fab densities are visible. Unfortunately, due to the preferential orientation of the sample, these classes cover only a few projections not enough to obtain a reliable 3D model.



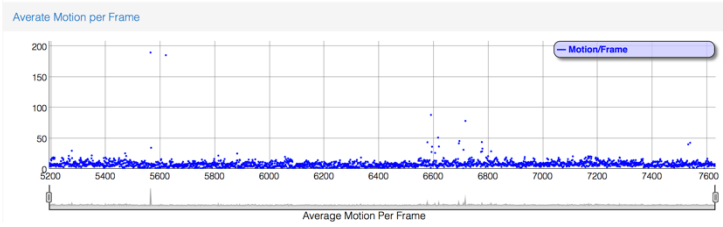


Fig 1 acquisition statistics

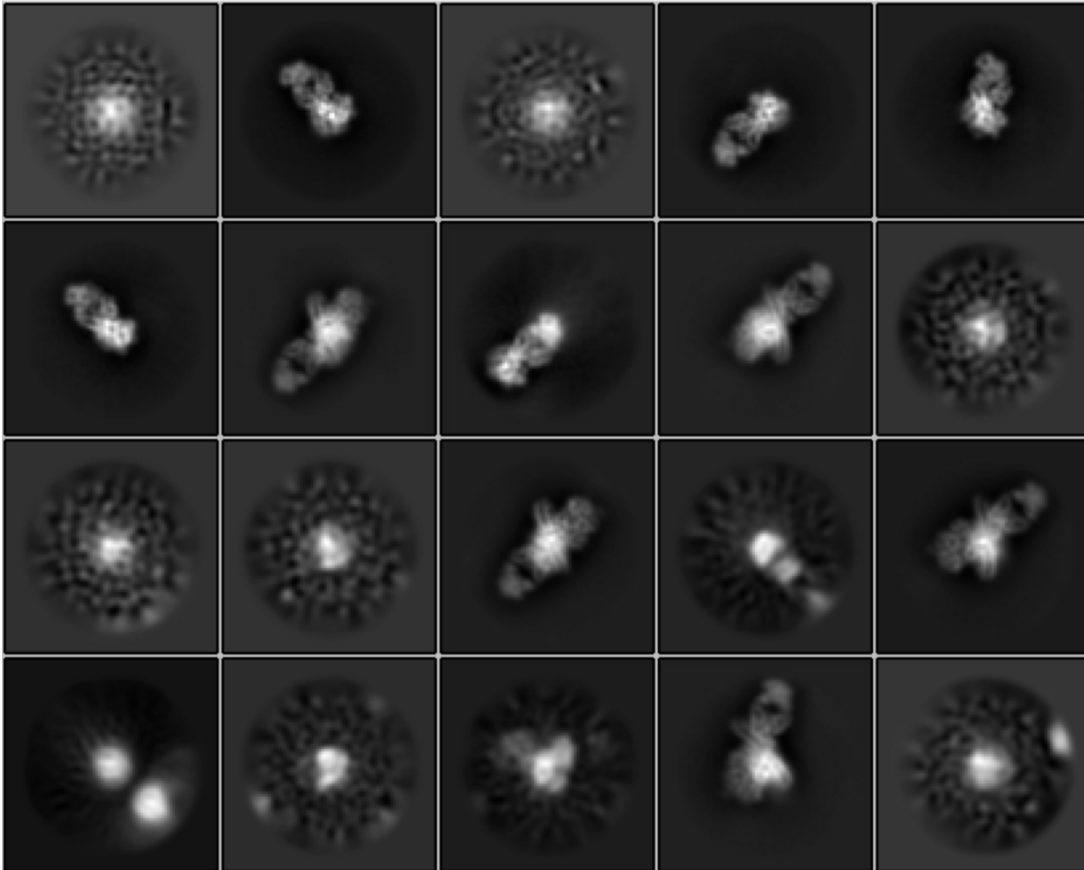


Fig2 2D classes