Figures and Preliminary results
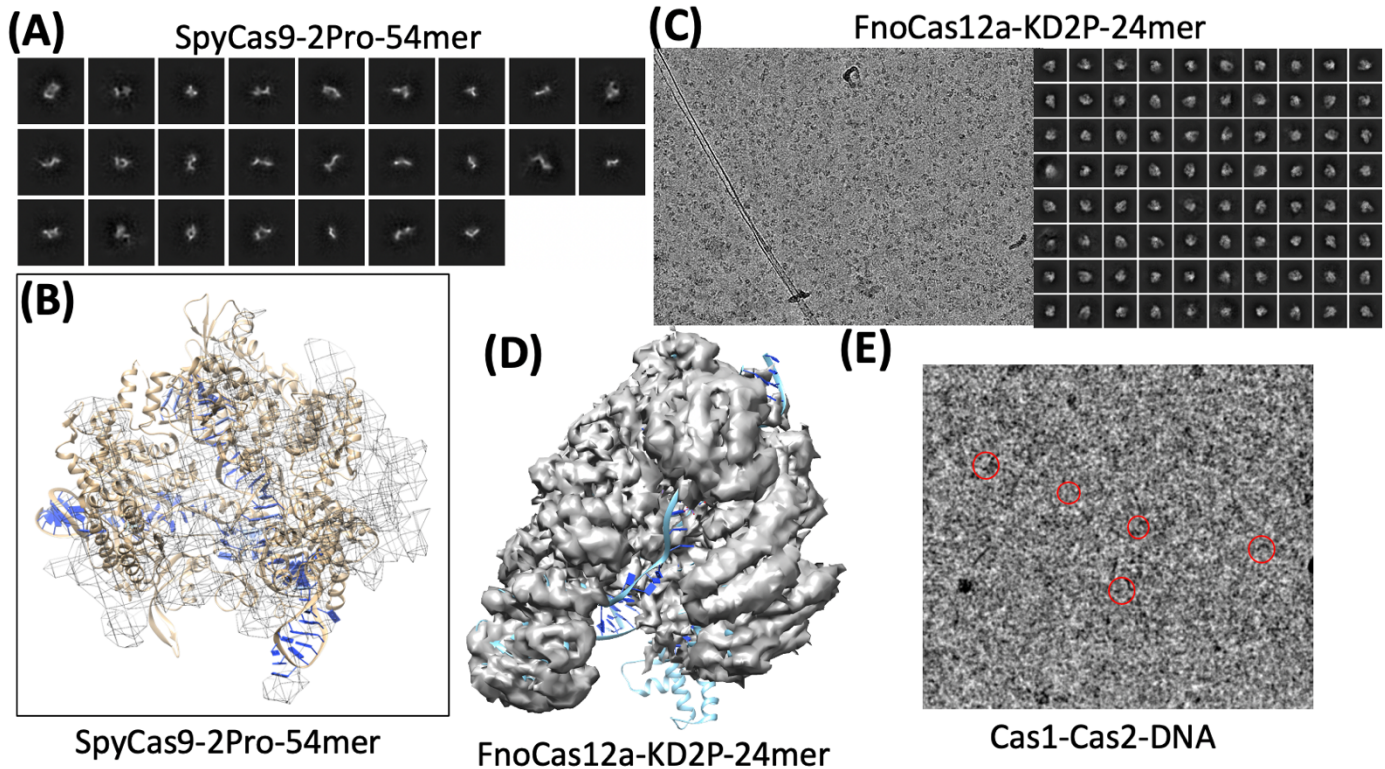

(A) SpyCas9-2Pro-54mer

(C) FnoCas12a-KD2P-24mer

(B) SpyCas9-2Pro-54mer

(D) FnoCas12a-KD2P-24mer

(E) Cas1-Cas2-DNA

Figure 1. Preliminary results. (A) Representative 2D classes for the SpyCas9-2Pro[1,2]-gRNA-54-mer DNA data collected during the NCCAT-TP1 visit. **(B)** Initial map volume fit with a model (PDB ID: 4OO8)[3]. **(C)** Micrograph showing distribution of FnoCas12a-KD2P[4]-gRNA-DNA complex on GO-coated quantifoil grid. 2D classification of FnoCas12a-KD2P[4]-crRNA-DNA particles is also shown. Data was collected at SLAC. **(D)** The *ab-initio* volume map generated for the complex fit with PDB ID: 5NFV,[5] and it exhibits the expected crab-claw feature. **(E)** Micrographs showing the distribution of Cas1-Cas2-DNA complex purified using our established methods[6] on a quantifoil grid. The particles possess elongated morphology similar to an available structure from an ortholog (e.g., PDB ID: 5XVN)[7].

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