INTRODUCTION

Inspired by viral packaging signals, we harness the programmability of CRISPR-Cas12a to direct the nucleation and growth of a self-assembling synthetic polypeptide into virus-like particles on specific DNA molecules.

RESULTS

C-S_{10}·B condenses DNA into rod-like particles

- C: collagen-like domain
- S_{10}: silk-like self-assembling domain
- B: DNA binding Lys_{12} domain

DNA-bound dCas12a triggers C-S_{10}·B clustering and accelerates condensation

- dCas12a + C-S_{10}·B

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- Non-cognate DNA (20 kb)
- Cognate DNA (28.5 kb)

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