

DATE

3' ————— 5' Aptamer

5' ————— 3' Complementary strand

- Achieve successful competition between the complementary nucleotides of the aptamer sequence and the complementary strand

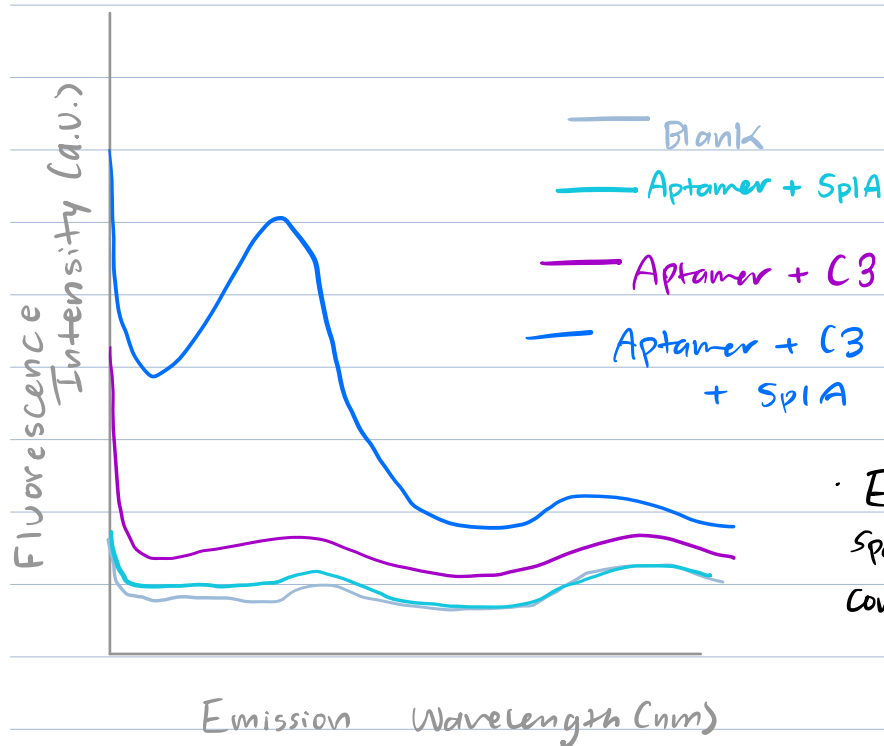
DATE

Aptamer	Complementary Strand (C4)	Complementary Strand (C3)	Aptamer + C4	Aptamer + C3

- Agarose gel electrophoresis :
forming of a double-strand complex.

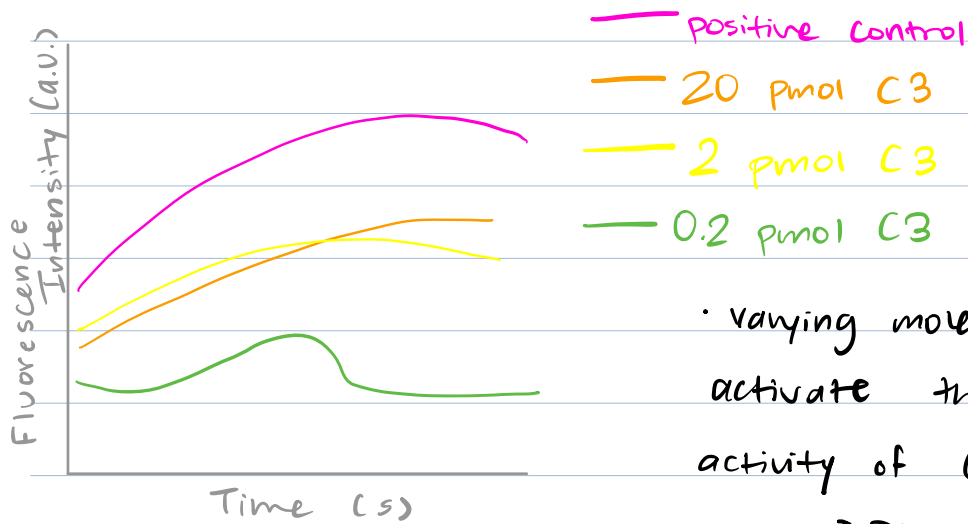
— free complementary strand

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- Emission spectrum after competition reaction

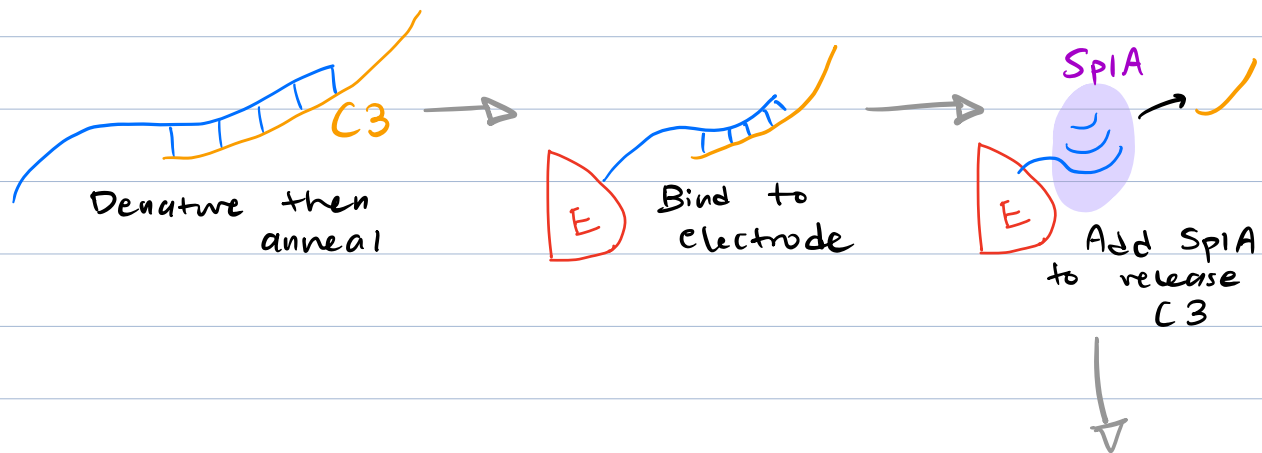
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• Varying moles of C3 to activate the trans-cleavage activity of Cas12a

→ DNase I used for positive control

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• Trigger trans-cleavage

• Measure fluorescence intensity

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