Application of pore-forming toxin in single-molecule sensors

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• **Rational design of engineered aerolysin nanopore**
  
  - Sensitivity
    The sensing ability of aerolysin are mostly controlled by the narrow diameter of the double β-barrel
  
  - Selectivity
    The selectivity of aerolysin are mostly controlled by the electrostatics of the double β-barrel

• **Decoding informational polymers**

Cao et al., Nature Communication, 2019

Cao et al., Science Advances, 2020, in print