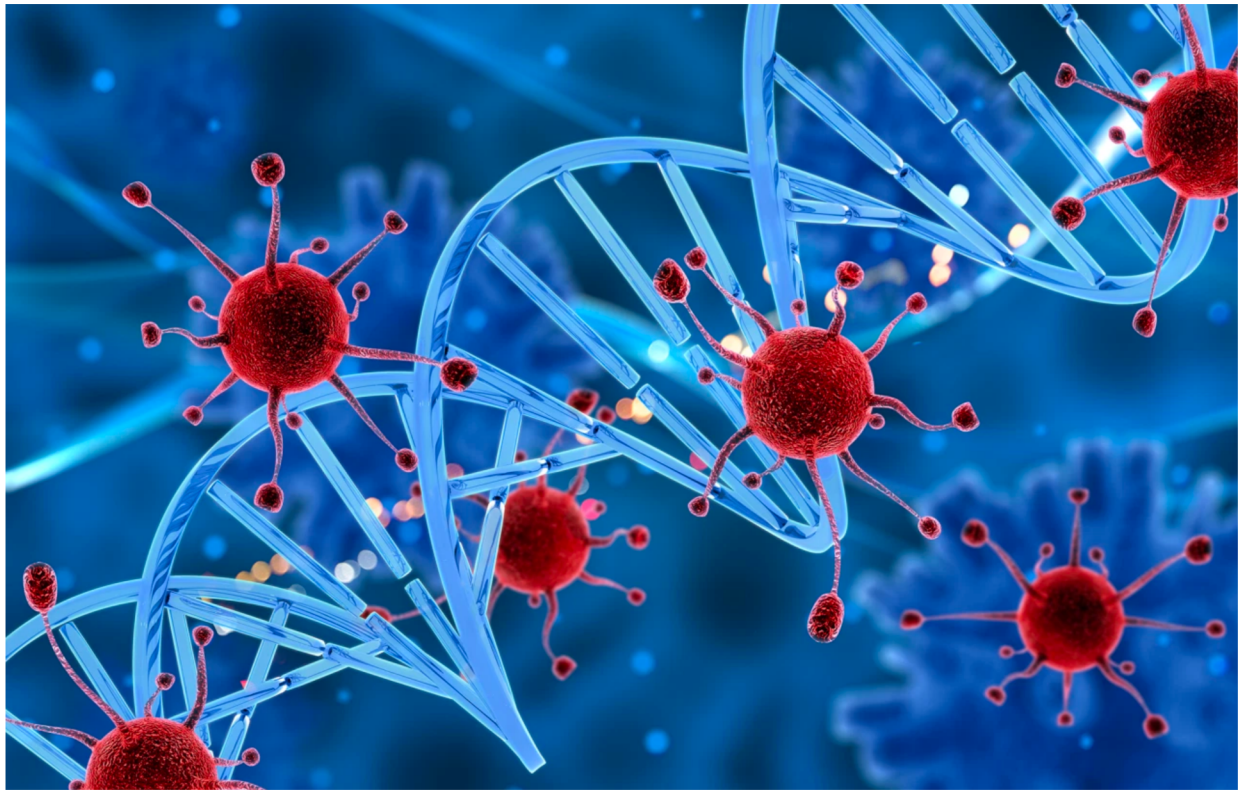
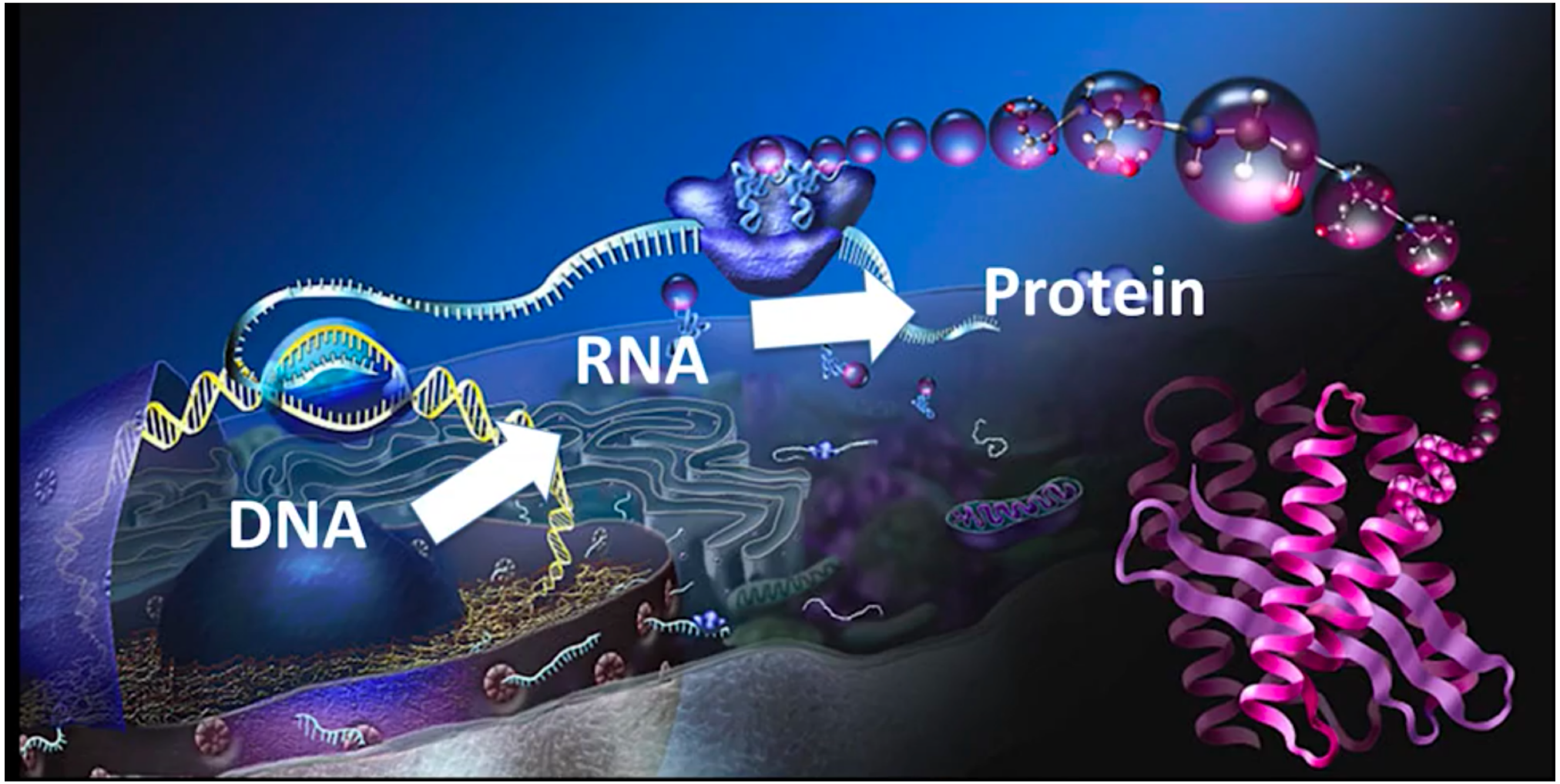
Lesson 9
Genes and DNA rules

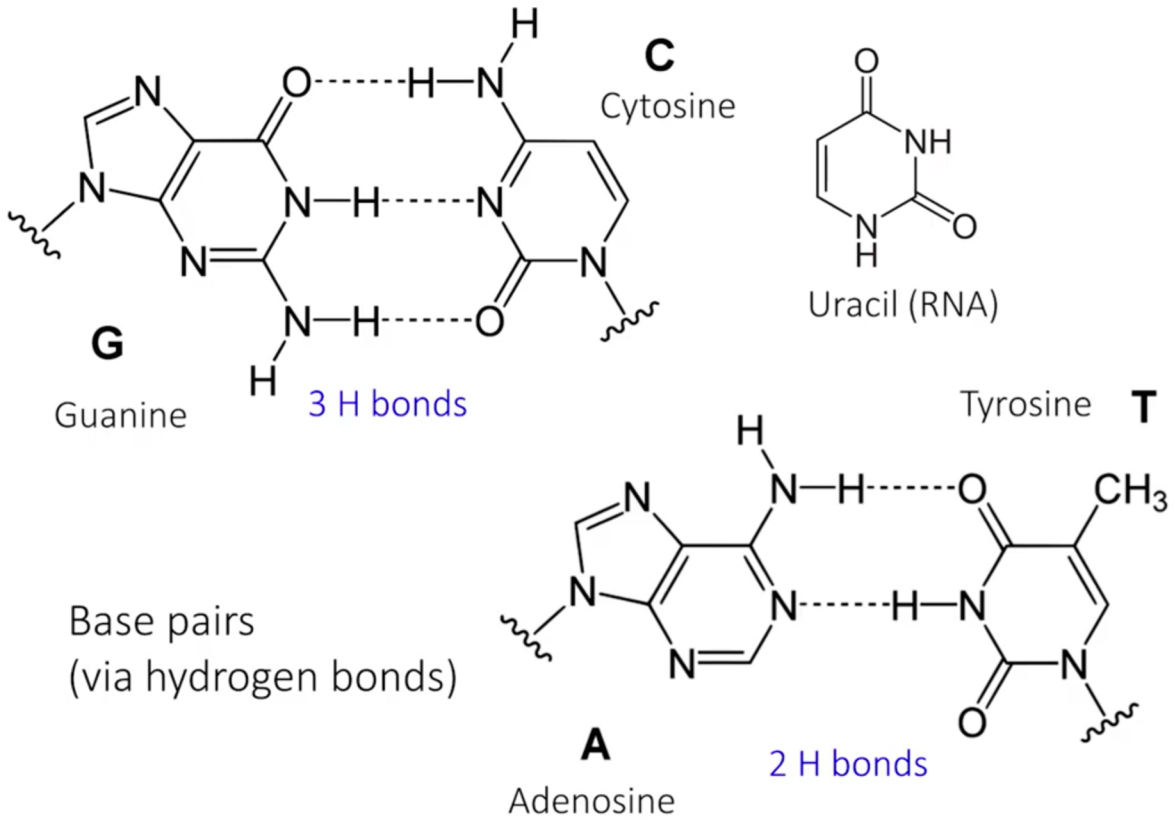


The MB central dogma (information transfer)



DNA rules

- DNA base pairing rule
  - A makes **2 hydrogen bonds** with T
  - G makes **3 hydrogen bonds** with C



DNA rules

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  - G makes **3 hydrogen bonds** with C
- Base pairing is associated with **complementary DNA strands**

A A T C
T T A G

DNA rules

- DNA base pairing rule
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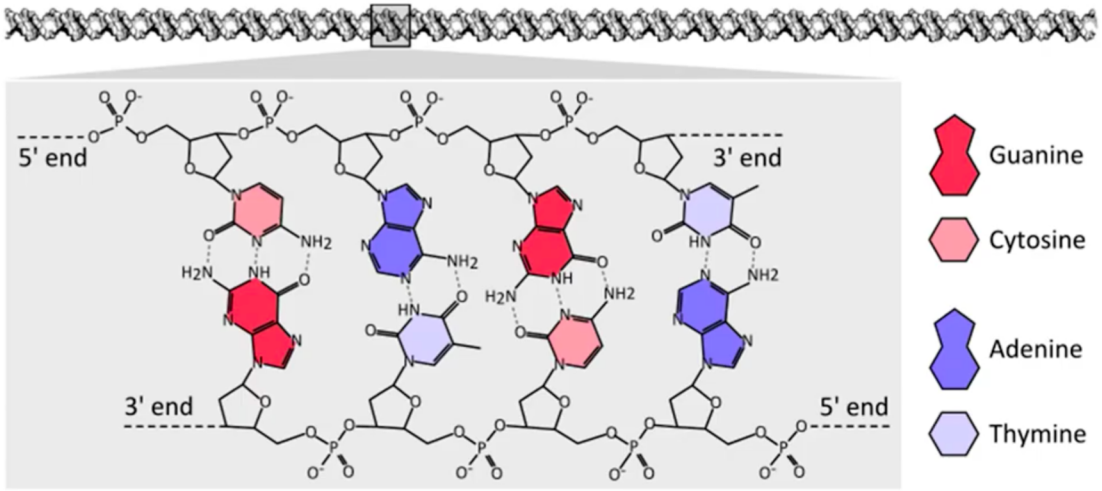
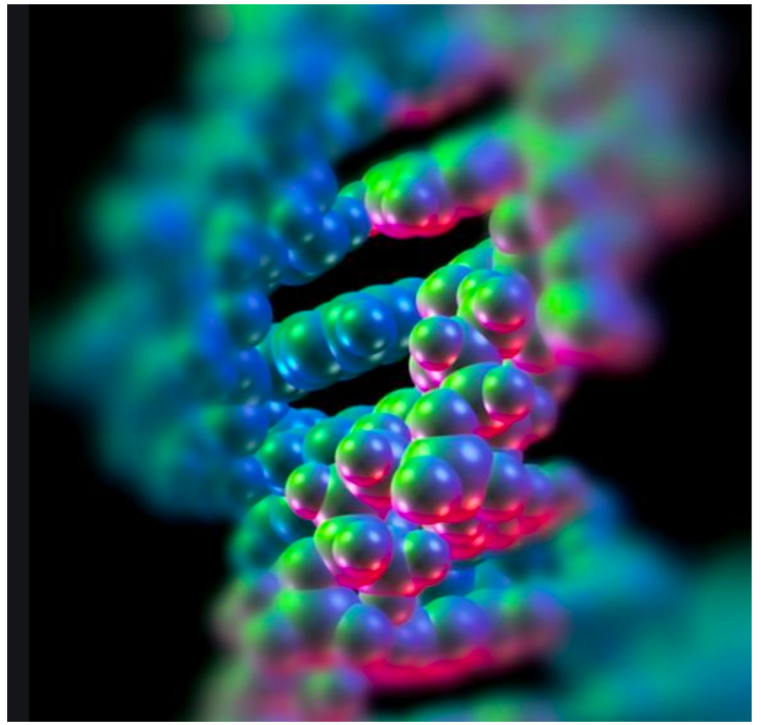
- Base pairing is associated with **complementary DNA strands**

5’A A T C3’
3’T T A G5’

DNA rules

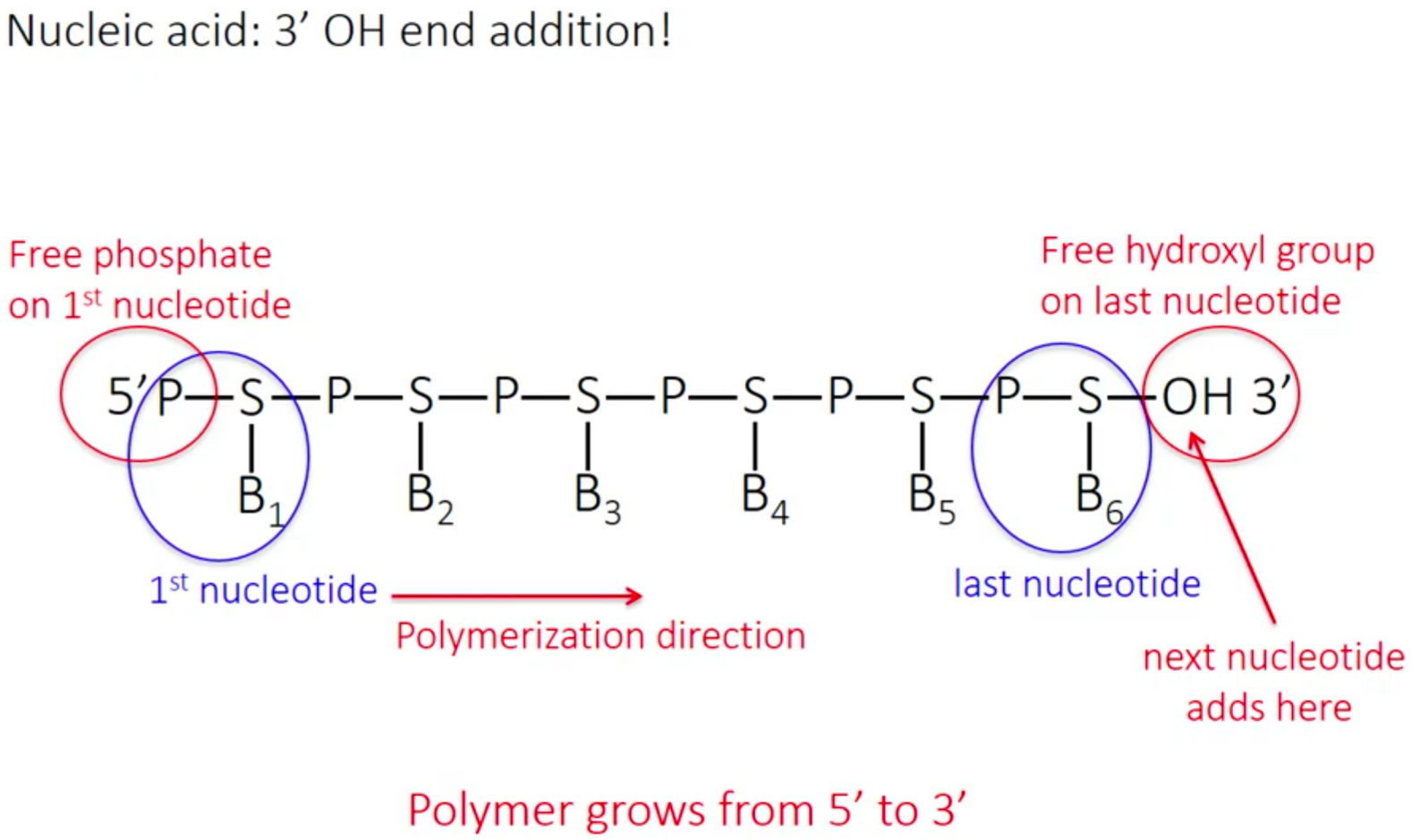
- DNA base pairing rule
  - A makes **2 hydrogen bonds** with T
  - G makes **3 hydrogen bonds** with C
- Base pairing is associated with **complementarity**
- DNA is made of 2 complementary = **antiparallel** strands
  - Very stable double-helical structure





DNA rules

- Reminder!



Genes and DNA rules

- Take assignment 9: Genes and DNA rules