

- Announcements
- Quiz
- Pre-lab Lecture
  - ❖ Closer Look at Plasmids
  - ❖ Site-Directed Mutagenesis
  - ❖ Restriction Enzymes Recap
  - ❖ Today in Lab: M2D2

# Plasmid Overview

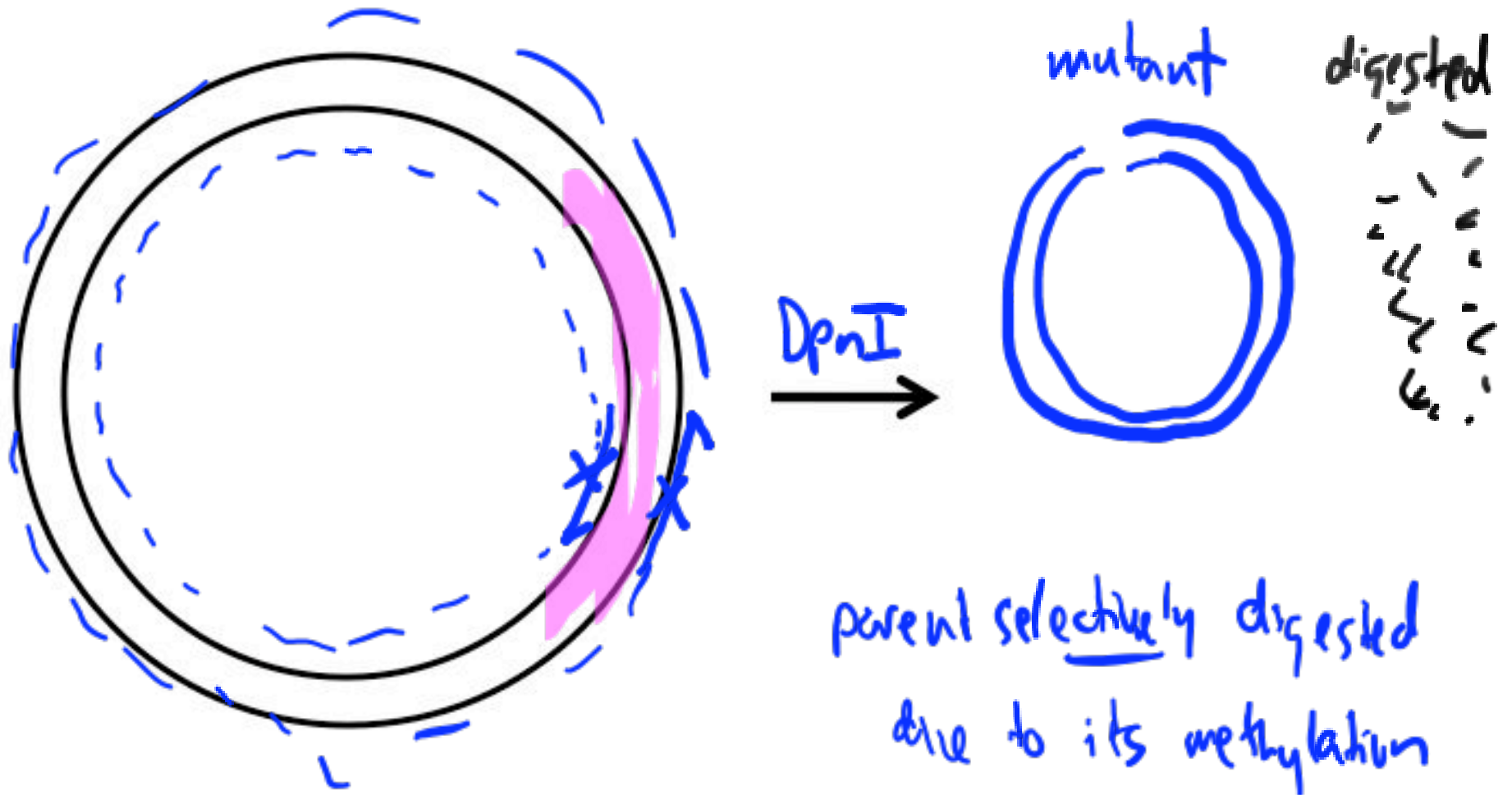


↳ circular, ds, extrachromosomal

why? vector to introduce  
a foreign gene  
(in an organism)

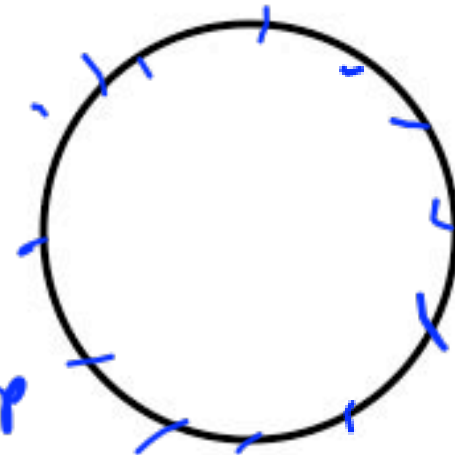
Ampicillin resistance  
→ select bacteria w/ Amp  
that have plasmid

# SDM Process



# Restriction Enzyme Recap

- Allow selective cutting of DNA
- Some are more common than others  
 e.g., DpnI v. common GATC
- Often, but not always palindromic <sup>CH<sub>3</sub></sup> 68bp
- Some are less selective



XcmI      CCANqTAG

N = A, T, C, G

ApuMI      RGHWCCY

R = A/G      W = A/T  
Y = C/T

# Today in Lab

- Prepare primer stock and dilution.
- SDM rxn: careful not to contaminate shared stocks.
- Paper reading period and discussion.
- For next time:
  - Short answer questions