

M1D3: Site-directed mutagenesis

02/12/2016

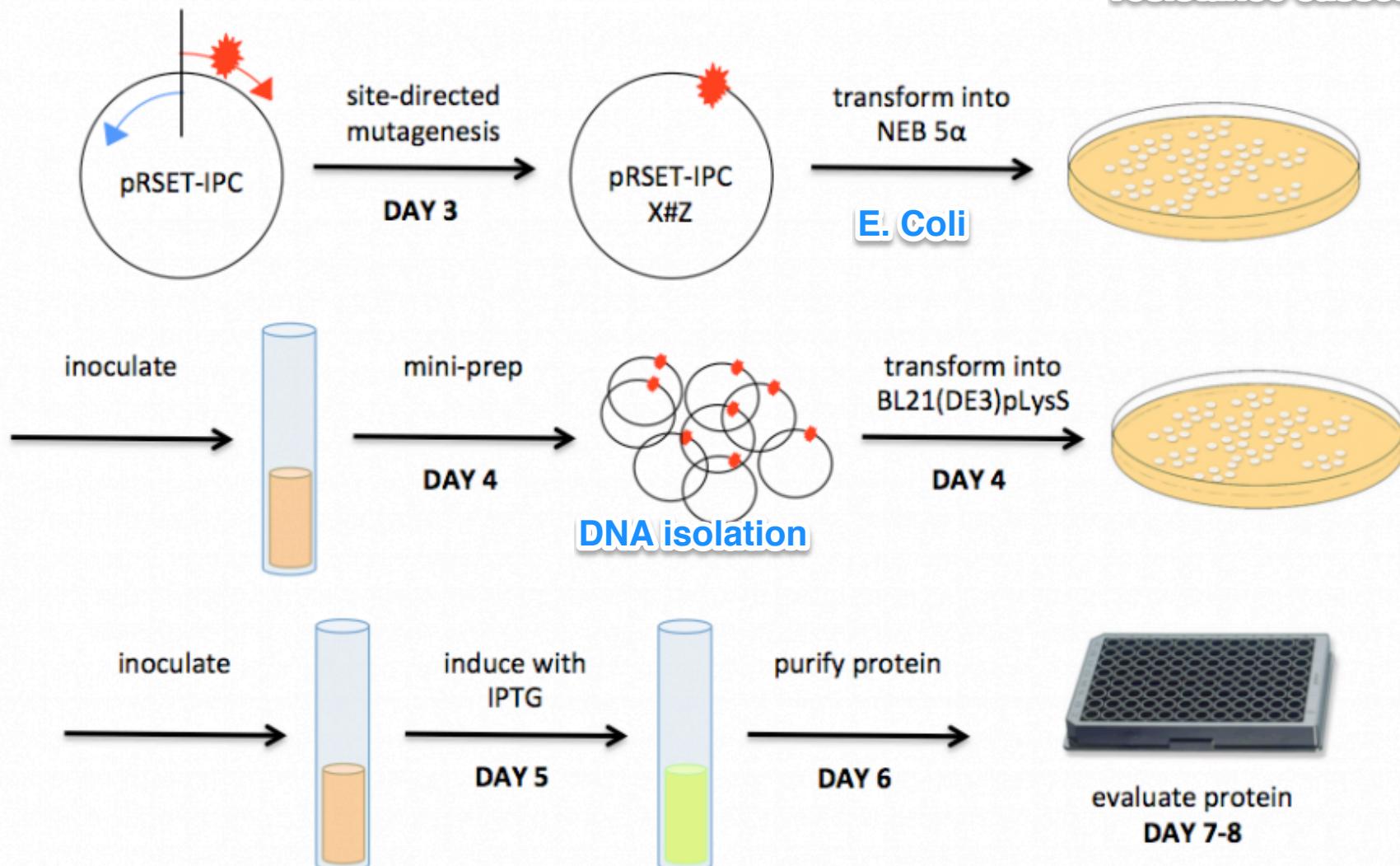


20.109 Spring 2016

M1 experimental overview

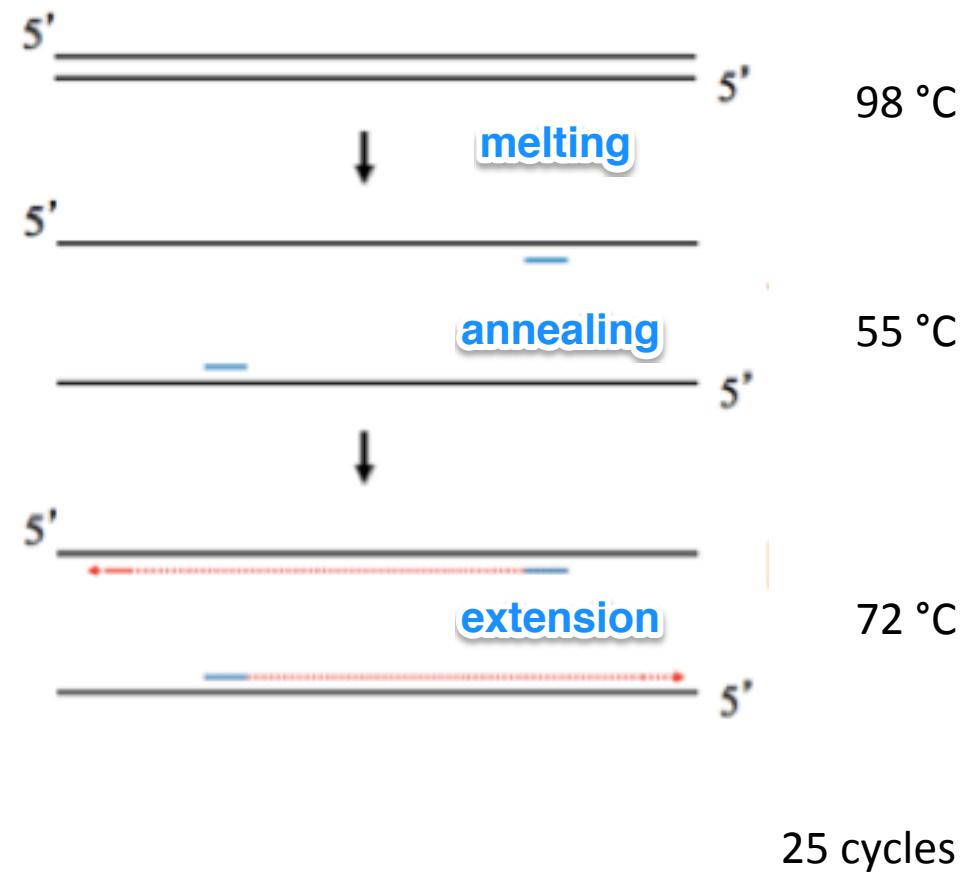
rational design or directed evolution?

pRSET has an ampicillin resistance cassette

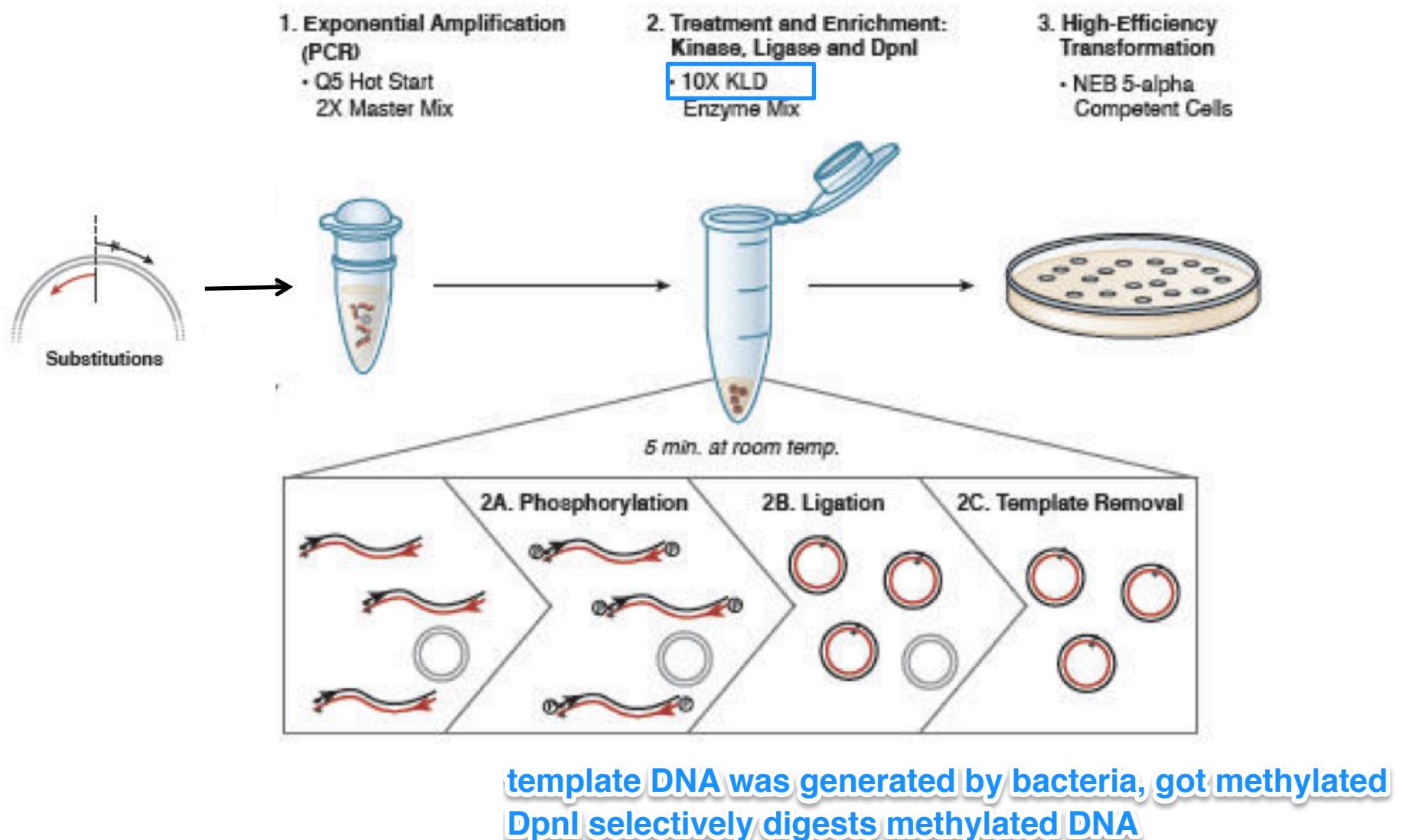


SDM ingredients and cycling conditions

SDM ingredients
primers (0.5 uM)
template pRSET-IPC (25 ng)
dNTPs
polymerase HF
Mg2+ cofactor
buffer
water



SDM steps with NEB Q5 kit



Today in lab

- BE Communication Lab workshop
 - Figures & captions
- Reconstitute your primers
 - Add water for 100 µM stocks
- Set up and start site-directed mutagenesis (SDM) reaction
 - KLD treatment & NEB 5α *E.Coli* transformation tonight by faculty
- Group paper discussion



Happy Valentine's Day!
Happy Presidents' Day!



Neither lecture nor lab next Tuesday / Wednesday!