Library generation by recombination


DNA shuffling

- What is the method? What are the steps by which it is conducted?
- What are the results?
- How does it compare with other methods?
- What are the benefits to using this method?
- What are the pitfalls?
DNA shuffling

Parent sequences

DNase I enzyme

Random fragments

Denaturization

Fragment Annealing

PCR without primers

Shuffled Product

Extension via Polymerase
StEP (Staggered extension process)

• What is the method? What are the steps by which it is conducted?
• What are the results?
• What are the benefits to using this method?
• What are the pitfalls?
StEP

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For next week…

• Zone of clearing assay
• Western blot
• Antibody structure/production
• Intro to phage display selection
Antibody structure and function

Diagram of antibody removed due to copyright restrictions.
scFv
Intro to phage display

M13 phage particle

Phagemid

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