Biogen Specific Teaching Material

Introduction to USP – What is a Bioreactor?

Questions & Answers

1. How many layers does a bioreactor vessel wall have and what are they called?

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1. The bioreactor has four walls: Interior wall, glycol jacket, insulation, outer sheath.

2. Name some reasons for a stirred tank bioreactor having a curved base?

2. Sample answer: The curved base allows for better mixing (stirring) of vessel contents, easier cleaning and less corrosion.

3. Fill in the gaps: A large-scale bioreactor is a _____ mechanical system designed to contain and grow _____ engineered cells at large-scale commercial _____.

3. Answers: closed, genetically, volumes.

4. What does the outer sheath enclose?

4. The outer sheath encloses the insulation and glycol jacket.

5. What is electropolishing?

5. Electropolishing is an electrochemical method of smoothing, deburring, polishing, and cleaning stainless steel.

6. What is synonymous with 'large-scale'?

6. Sample answer: large volume

7. Name a few functions the insulation layer in the vessel wall serves?

7. Sample answers: Insulation serves to contain the heat in the vessel, and to prevent heat from escaping to the outer sheath.

8. On which layer of the bioreactor is a 'finish' applied?

8. A finish is applied on the interior wall of the bioreactor.

Thank you for your attention!

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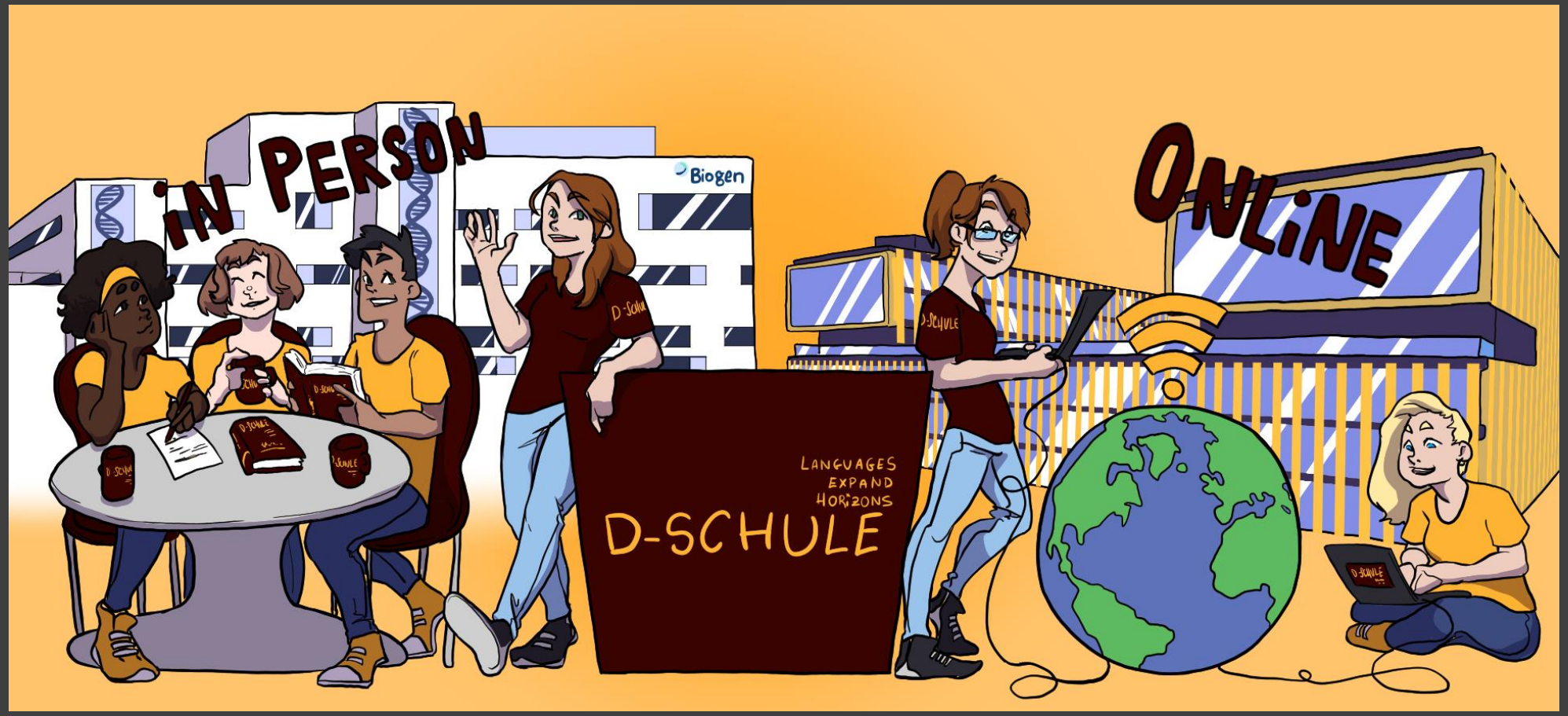

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