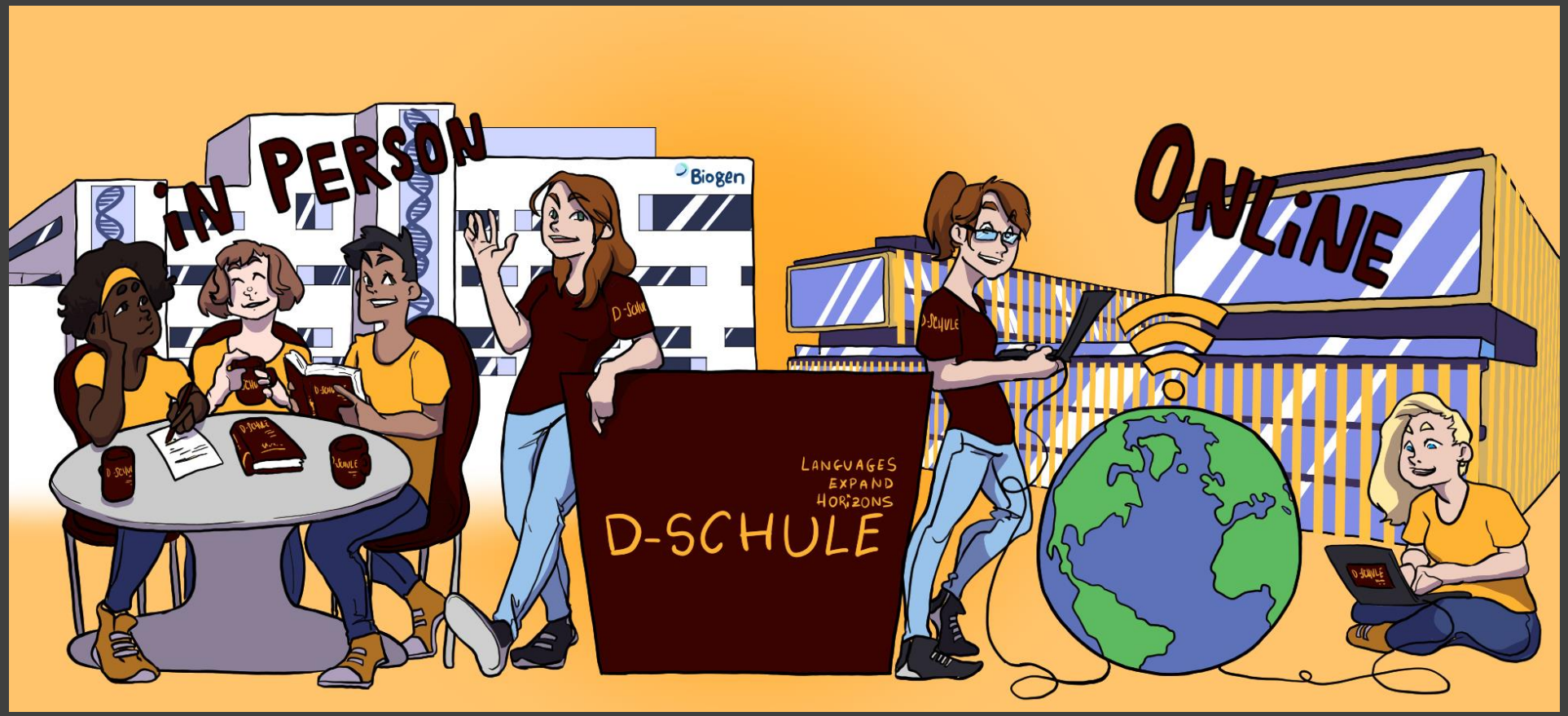
Biogen Specific Teaching Material

Introduction to USP – Critical Biotech Parameters



Questions & Answers

1. Name the four (4) types of bioprocesses.

1. The four types of bioprocesses are ærobic, anærobic, microærophilic and facultative anærobic.

2. Which levels of pH is required for animal cells to grow?

2. pH for animal cell growth is between 7.2 and 7.4.

3. Which function of a bioreactor is explicitly required?

3. Containment is required in all cases in a bioreactor.

4. What types of cells need oxygen to grow and metabolise?

4. Aerobic cells need oxygen for growth and metabolism.

5. What are the two types of pressure in a bioreactor?

5. Atmospheric pressure and osmotic pressure are the two types of pressure in a bioreactor.

6. Osmotic pressure in a bioreactor prevents osmosis from occurring during separation. (true or false?)

6. True. Osmotic pressure in a bioreactor prevents osmosis from occurring during separation.

7. The Pasteur effect involves adding which biological element?

7. The Pasteur effect involves adding oxygen so that fermentation does not begin.

8. Types of bacterial cells which can grow either ærobically or anærobically are called what?

8. They are called facultative anærobes.

9. What element must be removed for the cultivation of anærobic organisms?

9. For anærobic organisms to survive, the culture(s) must be devoid of oxygen.

10. Which type of cells can grow in the complete absence of oxygen?

10. Anærobic cells can grow in the complete absence of oxygen.

11. Through which process is oxygen supplied to a culture?

11. Oxygen is supplied to a culture via aeration.

Thank you for your attention!

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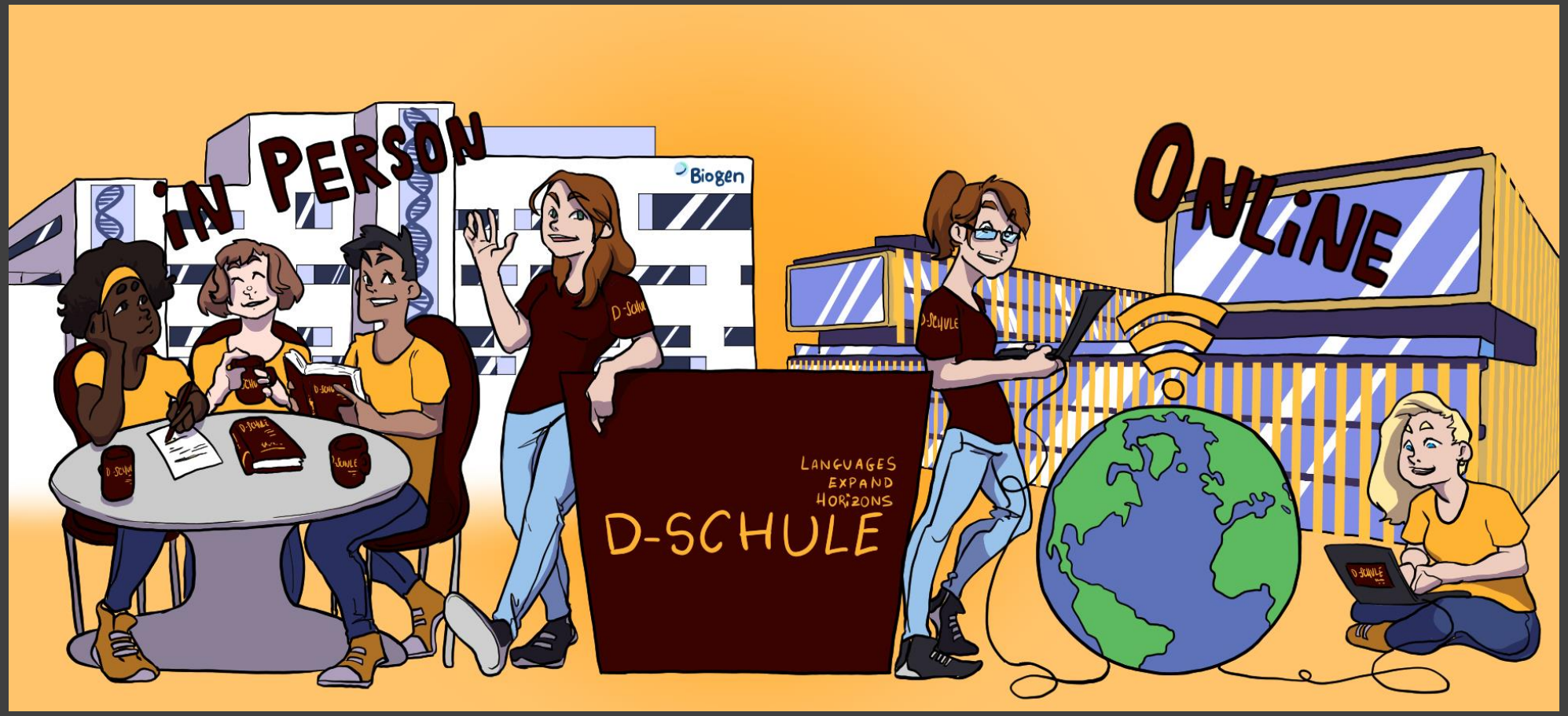

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