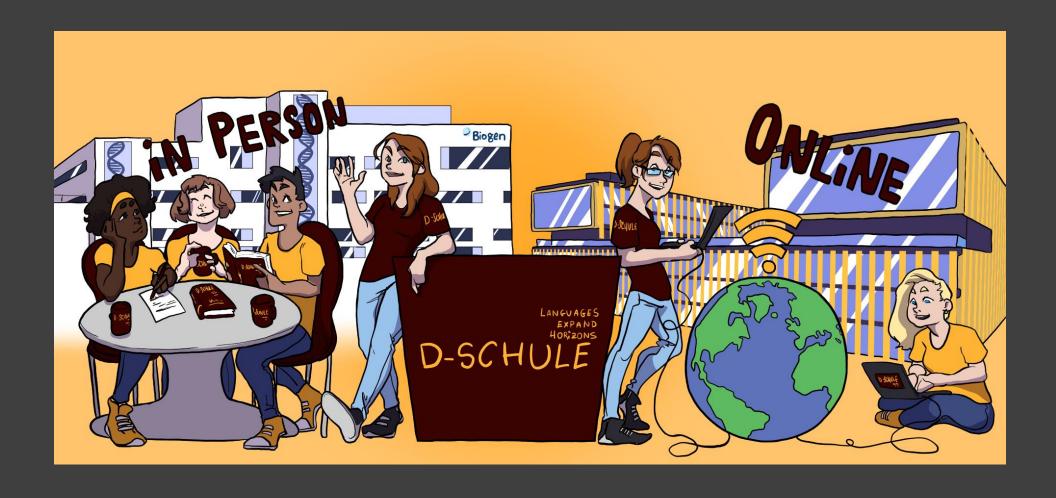
Biogen Specific Teaching Material



Questions & Answers

1. Why is the seed-train process time consuming?

1. The seed train is time consuming because a conventional cryopreserved cell-bank vial contains low cell numbers.



2. Higher seeding density helps reduce the 500-L production bioreactor growth phase by how many days?



3. What is the purpose of a seed train?









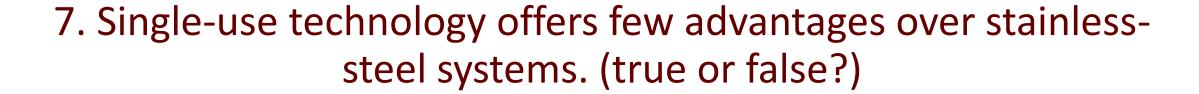
5. Name at least three (3) advantages of using single-use technology over stainless steel systems.

5. Possible answers: Enhanced facility flexibility, time savings in setup, cleaning, sterilization, reduced capital investment.



6. Fill the gap: Disposable Wave bioreactors are used in seed-train expansion processes because they also decrease contamination risk.







8. Fill the gap: Perfusion bioreactors have shown success in manufacturing commercial



9. With perfusion processes, relatively small bioreactor will remove unstable product from cultures more quickly than the more conventional batch and fed-batch processes. (true or false?)

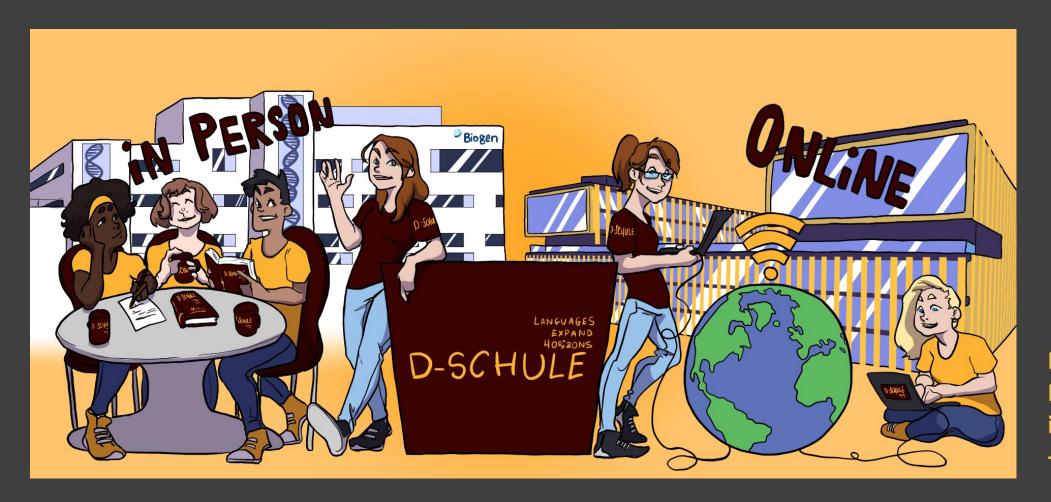


10. Put the correct verb: "Higher seeding density helps the 500-L production bioreactor growth phase by about five days."

10. Possible answers: CUT, SLOW, REDUCE

Thank you for your attention!

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