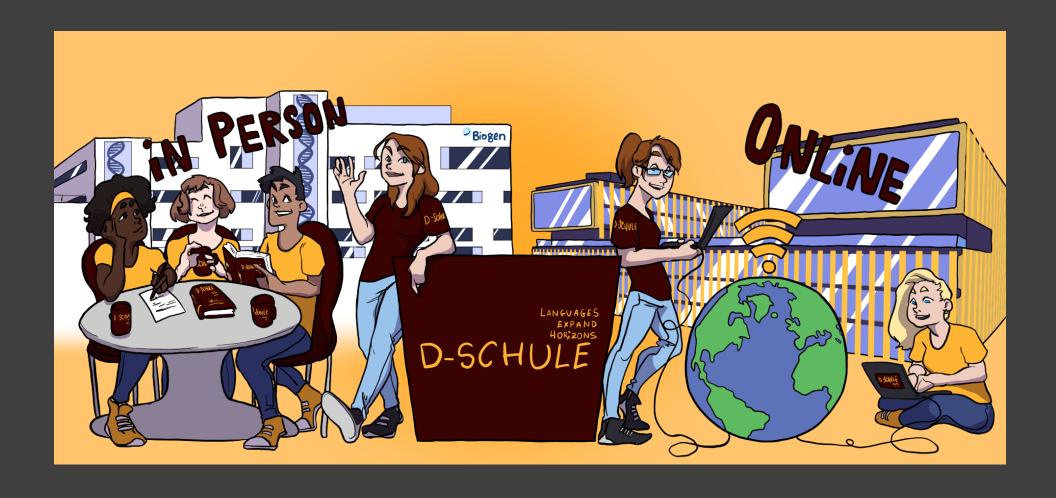
Biogen Specific Teaching Material



Questions & Answers

1. Which is the simplest fed-batch culture?



2. What happens when the feed rate of the growth-limiting substrate is increased in proportion to the exponential growth rate of the cells?





3. Why, in a fed-batch strategy, is the feed solution mostly highly concentrated?



4. Fill in the gaps: Substrate limitation allows the metabolic control to avoid osmotic ______, catabolite repression and _____ metabolism of _____ products.

4. effects, overflow, side.

5. Why is the fed-batch strategy typically used in bio-industrial processes?

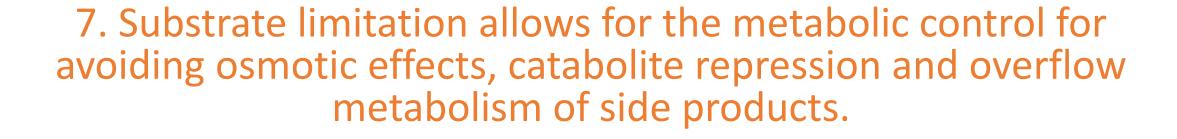


6. Name the three strategies for cell culturing.

6. The strategies (listed in the text) are high cell-density culture, constantly-fed-batch culture, and exponential-fed-batch culture (+ substrate limitation)





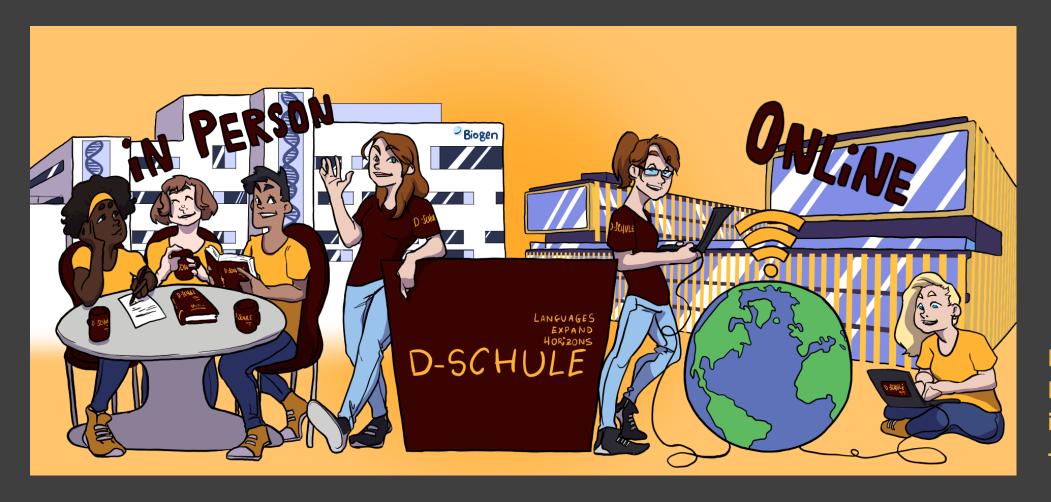


8. What grows exponentially under ideal conditions?

8. Cells grow exponentially under ideal conditions.

Thank you for your attention!

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D-SCHULE
Domenika Hüsser
info@d-schule.ch
+41 79 730 52 35