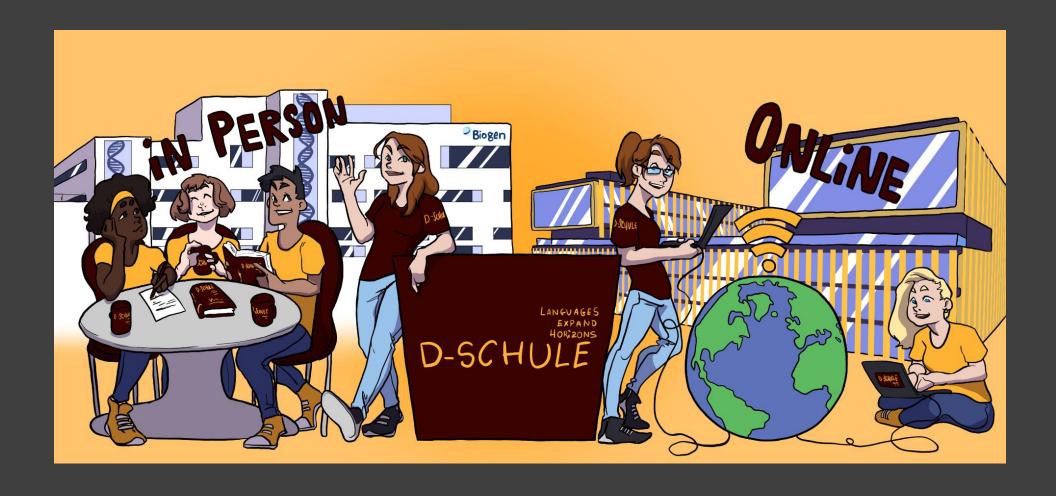
Biogen Specific Teaching Material



Questions & Answers

1. Name at least two (2) traditional harvesting techniques.

1. Possible answers: Membrane microfiltration, tangential-flow filtration (TFF, or crossflow filtration), centrifugation, depth filtration and specialized solutions.



2. The need for monitoring differential pressure, conducting economic evaluation at all scales, removing and disposing of filters; scaling-up limitations are examples of which cell separation method?



3. What needs to be considered when the membrane technique is used?

3. The size and fouling potential of the membrane.



4. To separate out whole cells and large cell debris, we use a disk-stack separator (conical plate centrifuge).



5. What adverse effect can shearing have?

5. Shearing can damage cells and increase the number of submicron particles that cannot be removed.







7. Regarding feedstock quality, which harvesting technique is highly sensitive to changes in cell culture viability, cell density, and medium components?







8. Low levels of endotoxin and other contaminants are a characteristic of which type of membrane?

8. Low levels of endotoxin and other contaminants are characteristic of polyethersulfone (PES).

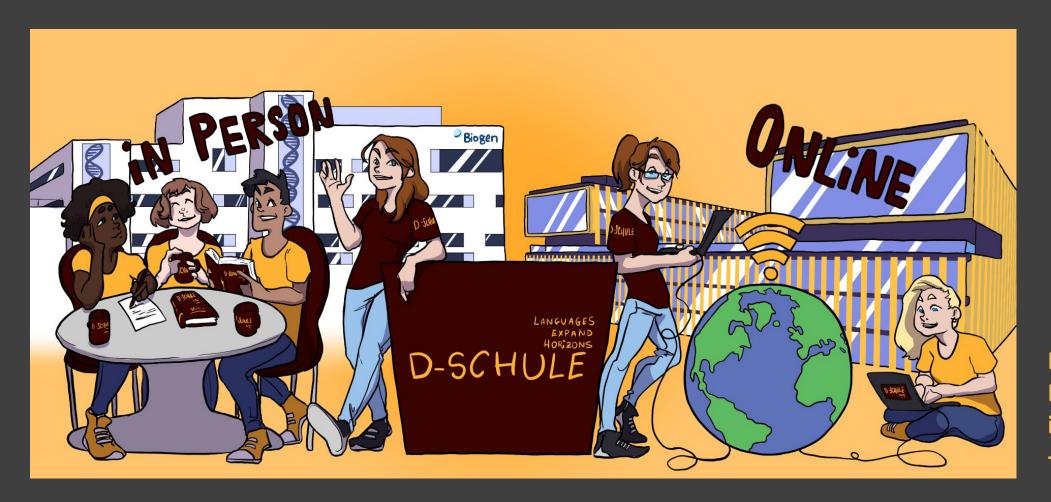


9. Fill in the gaps: High cell _____ and low ____ result in larger numbers of whole cells and solid impurities such as ____ and cell debris.

9. densities; viabilities; colloids.

Thank you for your attention!

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