



# **An Introduction to Bioreactor Hydrodynamics and Gas-Liquid Mass Transfer**

*Enes Kadic, Theodore J. Heindel*

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Reviews and compares the major types of bioreactors, defines their pros and cons, and identifies research needs and figures of merit that have yet to be addressed

- Describes common modes of operation in bioreactors
- Covers the three common bioreactor types, including stirred-tank bioreactors, bubble column bioreactors, and airlift bioreactors
- Details less common bioreactors types, including fixed bed bioreactors and novel bioreactor designs
- Discusses advantages and disadvantages of each bioreactor and provides a procedure for optimal bioreactor selection based on current process needs
- Reviews the problems of bioreactor selection globally while considering all bioreactor options rather than concentrating on one specific bioreactor type

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