

shaken bioreactors in the field of mammalian cell cultivation

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Since more than 60 years the shake flask is the standard shaken bioreactor in biotechnology. Regarding cell cultivation the shake flask has been used intensively since more than 20 years. The presentation gives an overview of the variety of shaken bioreactors from μL to 2500L scale (microtiter plate, TubeSpin, Erlenmeyer flask, ORBShaker, ...) focusing on the engineering parameters. Furthermore, application and scale up results of antibody and vaccine productions using shaken bioreactors will be shown.

Since more than 63 years Kühner AG, Switzerland is building shakers for the biotechnology field. Kühner works strongly together with the EPFL, Switzerland and the Technical University of Aachen, Germany.