

# Solutions for Your mAb Challenges

## EPPENDORF CENTRIFUGES FOR THE THERAPEUTIC ANTIBODY DRUG DISCOVERY WORKFLOW

### Hit to Lead Discovery

#### PRODUCTION OF TARGET ANTIGEN

- Plasmid construction (small)
- Plasmid construction (large)
- Expression in bacteria or cell lines
- Lysate clarification
- Antigen concentration

#### GENERATION OF HITS & IDENTIFICATION

- Hybridoma technology
- FACS/Flow cytometry
- High throughput screening

#### CHARACTERIZATION OF HITS & SELECTION OF LEADS

- PBMC isolation
- Screening assay

### Lead Optimization

#### CHARACTERIZATION OF LEADS

- PBMC isolation
- Functional assays
- Sequencing (spin down)
- Sequencing (preparation)

#### PROTEIN ENGINEERING OF ANTIBODY LEADS

- Humanization (small)
- Humanization (large)

#### TRANSIENT ANTIBODY LEAD EXPRESSION

- Antibody expression in cell lines

### Candidate Validation

#### IN VITRO VALIDATION

- PBMC isolation
- Functional assays

#### CELL LINE DEVELOPMENT

- Establishment of stable cell line

Pre-Clinical Phase

#### ● MOLECULAR BIOLOGY SOLUTION

Centrifuge 5425  
+ Rotor FA-18x2-Kit



- **Safe centrifugation with tube lid open:** extended rim rotor
- **Fast and easy operation:** QuickLock® rotor, short key function, automatic lid opening
- **Minimal noise pollution:** optimized sound design

#### ● HIGH SPEED SOLUTION

Centrifuge 5910 Ri  
+ Rotor FA-6x50



- **Fast and easy operation:** QuickLock® rotor, favorites function accessible from home screen <3s, timer function
- **Optimal cooling for sample safety:** aluminum rotor, Dynamic Compressor Control cooling technology
- **GxP documentation support:** user management including run records

#### ● BIG VOLUME HARVESTING SOLUTION

Centrifuge 5910 Ri  
+ Rotor S-4xUniversal\*  
+ 4 x 1l adapter  
+ 4 x 1l bottle



- **Great capacity and versatility:** universal high capacity rotor
- **Optimal cooling for sample safety:** aluminum rotor, Dynamic Compressor Control cooling technology
- **GxP documentation support:** user management including run records

#### ● VERSATILITY SOLUTION

Centrifuge 5910 Ri  
+ Rotor S-4xUniversal\*  
+ 4 x 5/15/plate adapter  
+ 4 x 50/250/plate adapter



- **Great versatility:** universal rotor and adapters
- **Optimal cooling for sample safety:** Dynamic Compressor Control cooling technology
- **Fast and reproducible operation:** directly accessible programs via touch screen, optimized deceleration ramps

#### ● HIGH-THROUGHPUT SCREENING SOLUTION

Centrifuge 5920 R  
+ Rotor S-4-1000  
(plate/tube bucket)  
+ 4 x plate carrier



- **Easy and safe plate handling:** plate carrier, closed plate buckets
- **Faster operation:** FastTemp pro®

#### ● LOW-THROUGHPUT PLATE SOLUTION

Centrifuge 5430  
+ Rotor A-2-MTP



- **Space saving:** very small footprint
- **Fast and reproducible parameter changes:** 3 program buttons, rotary knobs
- **Easy and safe operation:** automatic lid opening

#### ● CLASSIC CELL CULTURE SOLUTION

Centrifuge 5810  
+ Rotor S-4-104\*  
+ 4 x 5/15 mL adapter  
+ 4 x 50 mL adapter



- **Optimal size to capacity ratio:** small footprint
- **Optimal ergonomics** with low access height and soft touch lid

#### CENTRIFUGE SERVICE



- **Qualification Service:** receive GxP standards & regulation compliant documentation for internal and external audits
- **Preventive Maintenance:** benefit from increased productivity and uptime
- **Service Agreements:** realize easy plannability with an agreement

\* Optional aerosol-tight rotor caps for biocontainment. Aerosol-tight caps or additional safety when working with hazardous samples. They safely contain spilled liquid inside the rotor in case a tube leaks or breaks during centrifugation.

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