

Go-Bio 1: Modulated Enrichment by Cascade Sieving – Development of a simple method to isolate cells and bio-particles for medicine and biotechnology

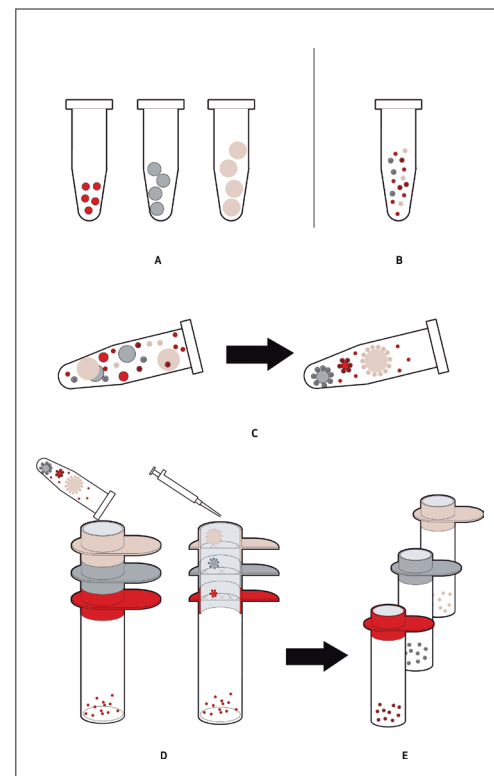
» Dr. Jan-Michael Heinrich

pluriBead® is a new and simple technology for cell-, bioparticle-, molecular-targeting and separation from any complex mixture as whole blood or other fluids. In comparison to present available methods the new technology will be faster and work with less need of equipment. It enables the simultaneous separation of different cells types and/or proteins from e.g. whole blood. pluriBead® is a new platform technology which can be applied for research, diagnostic and therapy of many diseases, immune disorders and infectious diseases.

The project is financed within the GO-Bio sponsorship of the BMBF. Integrated in the structure of the IZKF the potential of the platform technology will be evaluated, the technique validated and brought towards business application.

Keywords

- Cell isolation
- Cell Separation
- Whole blood
- Diagnostics



Contact

Dr. Jan-Michael Heinrich
Immunologie

IZKF - Interdisziplinäres Zentrum
für Klinische Forschung
Inselstraße 22
04103 Leipzig

fon +49 341 97-15887
fax +49 341 97-15979
jm.heinrich@pluriselect.de
www.uni-leipzig.de/~izkf

HEINRICH, J. M.; BERNHEIDEN, M.; MINIGO, G.; YANG, K. K.; SCHUTT, C.; MANNEL, D. N.; JACK, R. S.

The essential role of lipopolysaccharide-binding protein in protection of mice against a peritoneal Salmonella infection involves the rapid induction of an inflammatory response. *J. Immunol.* Aug 1;167(3) (2001),1624–1628.

SELEVERSTOV, OLEKSANDR; ZABIRNYK, OLGA; ZSCHARNACK, MATTHIAS; BULAVINA, LARYSA; NOWICKI, MARCIN; HEINRICH, JAN-MICHAEL; YEZHELYEV, MAKSYM; EMMRICH, FRANK; O'REGAN, RUTH; BADER, AUGUSTINUS

Quantum Dots for Human Mesenchymal Stem Cells Labeling. *A Size-Dependent Autophagy Activation* *Nano Letters* Nov. (2006).

VOZZI, F.; HEINRICH, J. M.; BADER, A.; AHLUWALIA, A. D.

Connected culture of murine hepatocytes and HUVEC in a multicompartamental bioreactor. *Tissue Eng Part A.* 2009 Jun;15(6) 86, (2008), 1291–1299.