

## **NEW METHODS AND NEW PERSPECTIVES OF ANALYTICAL AND PREPARATIVE CELL ELECTROPHORESIS**

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We discuss the application of various methods of cell electrophoresis in research into cell surface properties (analytical methods), and separation of uniform cell subpopulations from cell mixtures (preparative methods). The prospects of the development of simplified and versatile methodologies, i.e. microcapillary cell electrophoresis and horizontal cell electrophoresis under near-isopycnic conditions are emphasized. New perspectives of the use of analytical and preparative cell electrophoresis in research concerning cell differentiation, neoplastic transformation, cell-cell interactions and biology of stem cells are considered.