

IMMUNOLOGY AND CELL BIOLOGY

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THE POWER OF PROTEIN AND ANTIBODY ARRAYS IN STEM CELL RESEARCH

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Stem cells are uni-, multi- or pluripotent eukaryotic cell types which function to generate most of the basic body plan and tissues of a multicellular organism during development and even late into adulthood. The potency of stem cells is most often marked by the unique signature of proteins manufactured by these cells, which serves as a valuable tool for both cell-type identification and the discovery of new stem cell-based signaling cascades driving cell signaling, commitment and differentiation. These protein signatures may be rapidly and comprehensively characterized by the application of protein and antibody arrays.

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