



the simultaneous monitoring of multiple signaling pathways under the influence of one or more agonists provides insight into the genesis of a diseased cell, or the pharmacokinetic characterization of a potential drug. We will focus here on the applications for the detection of rare cells (hematopoietic stem cells) in complex samples through the determination of the multivariate biomarker signature that distinguishes that cell. Feasibility of the technology for massively multiparametric bead-based assays based on metal bar-coding will be discussed.