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(54) **Title:** METHODS FOR THE DETECTION OF MOLECULAR INTERACTIONS WITHIN CELLS

(57) **Abstract:** The invention provides a method of detecting the effect of an agent of interest on the interaction between two or more polypeptides introduced into a cell. The invention also provides a method for quantifying the interaction between at least two molecules of interest, which are introduced into a cell. A method for quantifying the effects of an agent of interest or the interaction between two molecules of interest on cellular constituents or functions in the same cells is also provided. The above inventive methods can be automatically quantified by a device, such as a HCS device, and utilized in the construction of a database.

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