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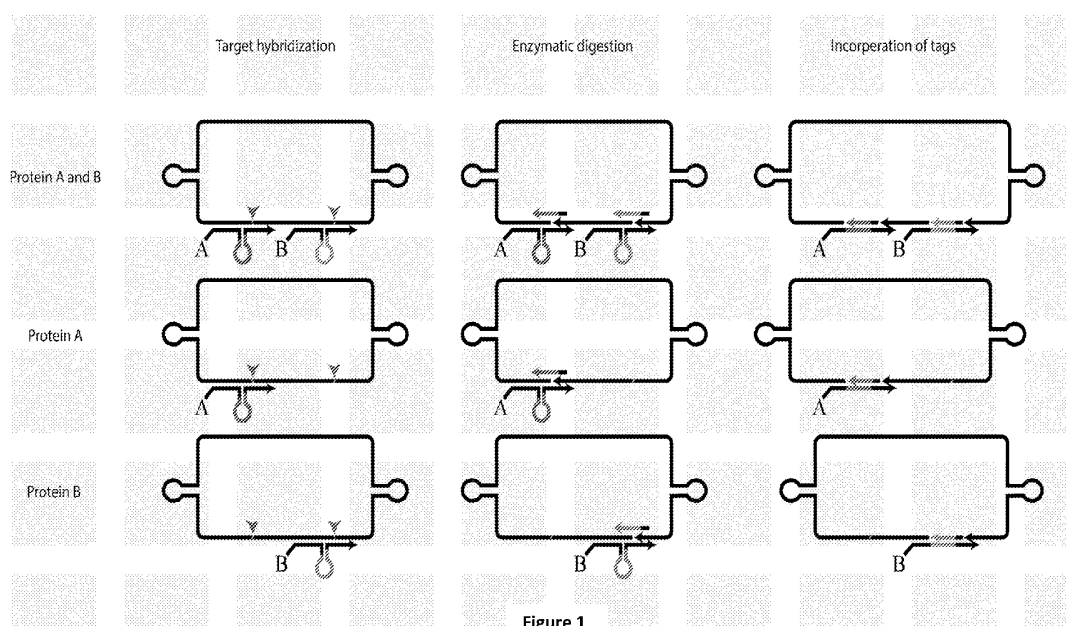
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(54) Title: METHOD FOR DETERMINING LEVELS OF INTERACTIONS BETWEEN BIOMOLECULES



(57) Abstract: The invention relates to a method for determining levels of interactions between biomolecules, such as proteins, in a sample, comprising providing a first and a second information carrying (IC) oligonucleotide, wherein the first and second IC oligonucleotide are attached, covalently or non-covalently, to a first and a second affinity reagent, such as antibodies, that have the capacity to bind to a first and a second biomolecule, wherein the first and second IC oligonucleotide each comprises at least one single-stranded stretch that is complementary to a part of another oligonucleotide, thereby, upon hybridisation of the at least one single-stranded stretch in at least one of the first and second IC oligonucleotides to its complementary part of another oligonucleotide, enabling measurement of the relative proportion of interacting and non-interacting first and second biomolecules in the sample at a single cell or single molecular level. Further, the invention relates to kits including necessary oligonucleotides and reagents to carry out the method of the invention.

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