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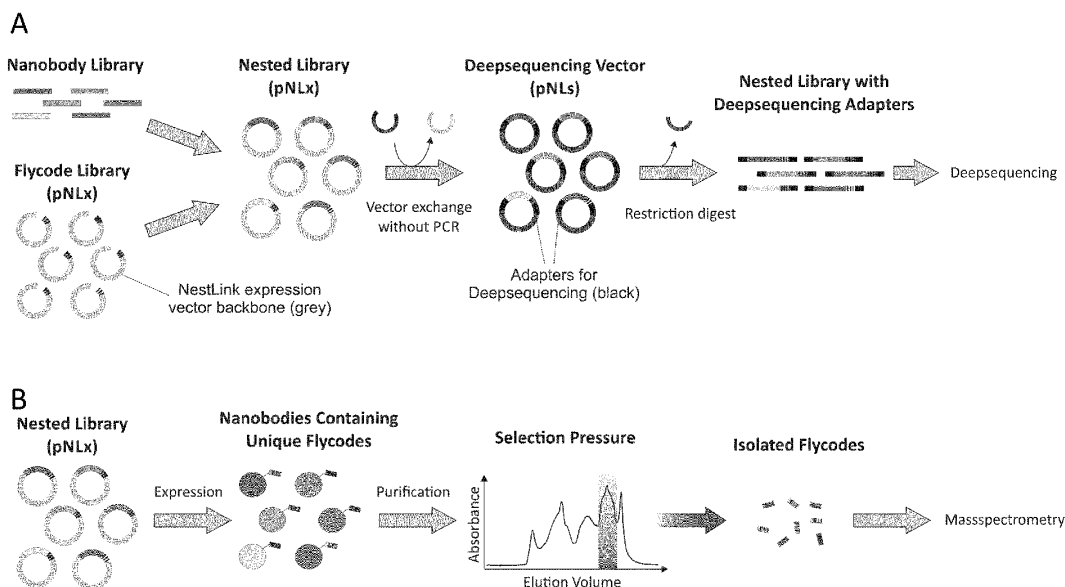
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(54) Title: PROTEIN SCREENING AND DETECTION METHOD

Fig. 1



(57) Abstract: The invention relates to a method for identifying and quantifying a polypeptide from a library of polypeptides. The method comprises the steps of: 1 - providing a polypeptide library and a detection tag library, 2 - generating a nested library comprising the polypeptides and the detection tags, 3 - sequencing the nested library, 4 - selecting a member of the nested library in one or several selection steps that are independent of a physical genotype-phenotype linkage, 5 - isolating the detection tag from the selected polypeptide, 6 - identifying and quantifying the detection tag by mass spectrometry, 7 - obtaining the sequence of the selected polypeptide. The invention also relates to a collection of polypeptides, a collection of detection tags, and a collection of plasmid vectors.

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