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(54) **METHODS FOR COMPARING A
STRUCTURE OF A FIRST BIOMOLECULE
AND A SECOND BIOMOLECULE**

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(57) **ABSTRACT**

The present disclosure provides methods to assess structural similarity of a first biomolecule and a second biomolecule by detecting one or more responses of the first and second biomolecule to thermodynamic stress conditions induced by osmotic and dielectric changes including, detecting a shift in fluorescence emission and/or a change in the intensity of the emission.