

Open Peer Review on Qeios

Conformation Dependent Mutation Detection

National Cancer Institute

Source

National Cancer Institute. <u>Conformation Dependent Mutation Detection</u>. NCI Thesaurus. Code C20064.

Polymorphism, single-stranded conformational, detection. Altered migration of single-stranded DNA molecules in non-denaturing gels based upon 3-D conformation. Uses PCR and/or restriction enzymes to generate short dsDNA molecules spanning a sequence of interest. The dsDNA molecules are heat denatured, and then quickly cooled. Each ssDNA molecule will assume a secondary structure (conformation) dependent upon its unique sequence. Base mutations will often result in altered conformations, with altered mobilities, which can be visualized following separation in non-denaturing gels. (NCI/OSP)

Qeios ID: KNHXSP · https://doi.org/10.32388/KNHXSP