



EMBO Workshop on Visualizing Biological Data

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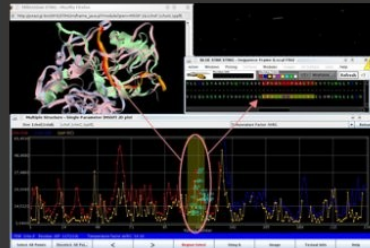
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T25: Multiple Structures - Selected Parameter (MSSP) 2D Plot

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The Multiple Structures - Single Parameter 2D module allows a user to compare, in a simple yet intuitive 2D plot, any one of the 150 different sequence, structure, function and stability parameters / descriptors, stored in STING_DB, for any protein structure deposited in the PDB. The 2D plot shows (for a selected parameter / descriptor) the numerical values in the Y-axis and the sequence residue numbers for structurally aligned proteins, in the X-axis. The MSSP module is a part of the improved Blue Star STING protein structure analysis computer interface and DB (which contains per-residue-reported descriptors (available for display both numerically and graphically) for either the public protein data base (the PDB)) or local files. The MSSP allows a user to select a parameter and to compare its values at corresponding 3d location in structurally aligned proteins. As a consequence, a user may observe / compare characteristics of nano-environment within macromolecular 3D constellation. A user may also evaluate how good is the 3D alignment based on synchrony in physical chemical characteristics of corresponding 3D locations in proteins previously aligned structurally. <http://www.cbi.cnptia.embrapa.br/SMS/>