

Peer Review

Review of: "Over Half a Century of Burial of ρ , θ and ϕ in PDB"

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I notice the absence of a mention of the Ramachandran plot from both the text and from the review commentaries. From Wikipedia, we are informed that it is “a way to visualize energetically allowed regions for backbone dihedral angles (also called as torsional angles, phi and psi angles) φ and ψ of amino acid residues in protein structure.” (https://en.wikipedia.org/wiki/Ramachandran_plot).

The geometry of these dihedral angles is informative of the internal structure of the local region of the protein; broadly, the alpha helices, the beta sheets, and “forbidden” regions.

The Ramachandran plot contrasts severely with the suggestions of the current text, which provides no information on the relationships of the various parts of the protein. It would be necessary for the current author to show what interpretations are available from the use of the proposed spherical coordinates and to show meaningful plots of the resulting data, rather than the confusion of the current plot.

Declarations

Potential competing interests: No potential competing interests to declare.