

Abstract Submitted  
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**Critical Single-Point Mutations and Protein Folding Pathways.**

ROY CAMPBELL, Walla Walla College — Single-point mutations can have a dramatic effect on protein structure. Treating a mutation as a perturbation of a protein's folded structure may not reveal a significant effect on that structure. The dependence of a protein's structure on a mutation may only be understood when the mutation's effect on the folding pathway is known. A united-residue model (Liwo *et al.*, PNAS, **102**, 2367, 2005) was used to study the effect of single-point mutations on protein folding pathways.

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