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Investigating a simple model of protein folding for evidence of self-organized criticality JOELLE MURRAY, ANDREW CLELAND[1], ADDISON WISTHOFF[2], Linfield College — Protein folding is a complex, multi-faceted process with many drivers. Systems of this type are ubiquitous in nature and many behave as self-organizing critical (SOC) systems. Does protein folding exhibit self-organizing critical behavior? To answer this question, we developed a simple model of the folding process and searched for evidence of self-organized critical behavior. Furthermore, we investigated whether or not the parameters defining self-organization can shed light on the protein folding process.

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