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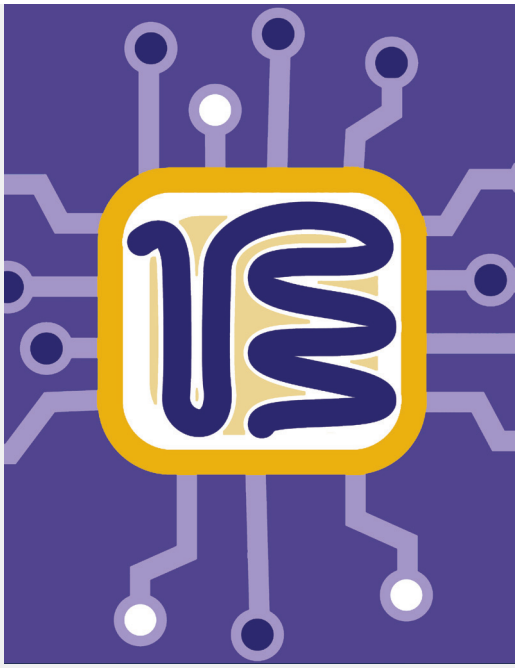

Cover image: Pictured is an artistic illustration of a folded protein on a computer chip. A collection of articles in the From Basic Mechanisms and Cellular Machineries to AI Solutions in Protein Folding Special Feature highlights recent advances in the use of deep learning models and AI algorithms to understand and predict protein structures and folding patterns. Together, the articles explore the physico-chemical rules that govern protein folding, the biological machinery of protein quality control, and the origins of neurodegenerative pathologies associated with protein misfolding. See the Introduction to the Special Feature, e2411135121. Image credit: Art by Sarina Bromberg (Three Arrows Cooperative Society, Putnam Valley, NY), with concept by Charles D. Kocher and Ken A. Dill (Stony Brook University, Stony Brook, NY).

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INAUGURAL ARTICLE

FROM BASIC MECHANISMS AND CELLULAR MACHINERIES TO AI SOLUTIONS IN PROTEIN FOLDING SPECIAL FEATURE

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