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“In Search of a Good Structure: Methodology and Practices for Protein Structure Prediction, a Case Study of Glycosylase Proteins.”

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Protein structure prediction is a major focus in the area of structural biology research and many techniques are being developed and employed to solve this problem. This talk will cover the methodologies and practices for determining the tertiary structure of a protein and the challenges of attaining accurate models from conformation space sampling and refinement. For illustration, of a current case study of the uracil DNA glycosylase (UDG) protein from an orthopoxvirus family genome, whose three dimensional structure is yet unknown, is presented.