

EProM - Exploration of Protein Modifications

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Summary:

We present EProM—a visual analysis interface for the exploration of protein modifications—as a contribution to the IEEE VIS 2022 Bio+MedVis Challenge. The interface targets researchers in bio-chemistry, proteomics, and precision medicine as its primary users. Observed modifications can be inspected from the protein's primary, secondary, and tertiary structure, using a straightforward design and intuitive interactions. Modifications' measurement uncertainty and relation to residues with identified pathogenic mutations are considered.