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A new probability method to understand protein-protein interface formation mechanism at amino acid level

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Highlights:

- A new probability method was proposed to understand the protein-protein interface formation mechanism at amino acid level.
- Millions of models based on different geometric areas of surface residues were trained to estimate the probability of two surface residues from different monomers as an interface residue pair.
- Five simple discriminants for near native protein-protein interface recognition were constructed by integrating the probabilities of residue pairs on candidate interfaces.

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