Cross Kingdom Residue Comparison: A New Method for Identifying and Separating Taxonomic Groups

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Abstract- A new method of identifying relationships between taxonomic groups by comparing amino acid residues across wellconserved proteins has been discovered, and has potential applications for treating harmful cyanobacteria blooms. This method, called Cross-Kingdom Residue Comparison, has been applied to the ribosomal protein S15 and resulted in findings supported by major, independent studies. Cross-Kingdom Residue Comparison has further applications both in clarifying taxonomic separation and in future drug research, especially in water purification and antibiotic research.