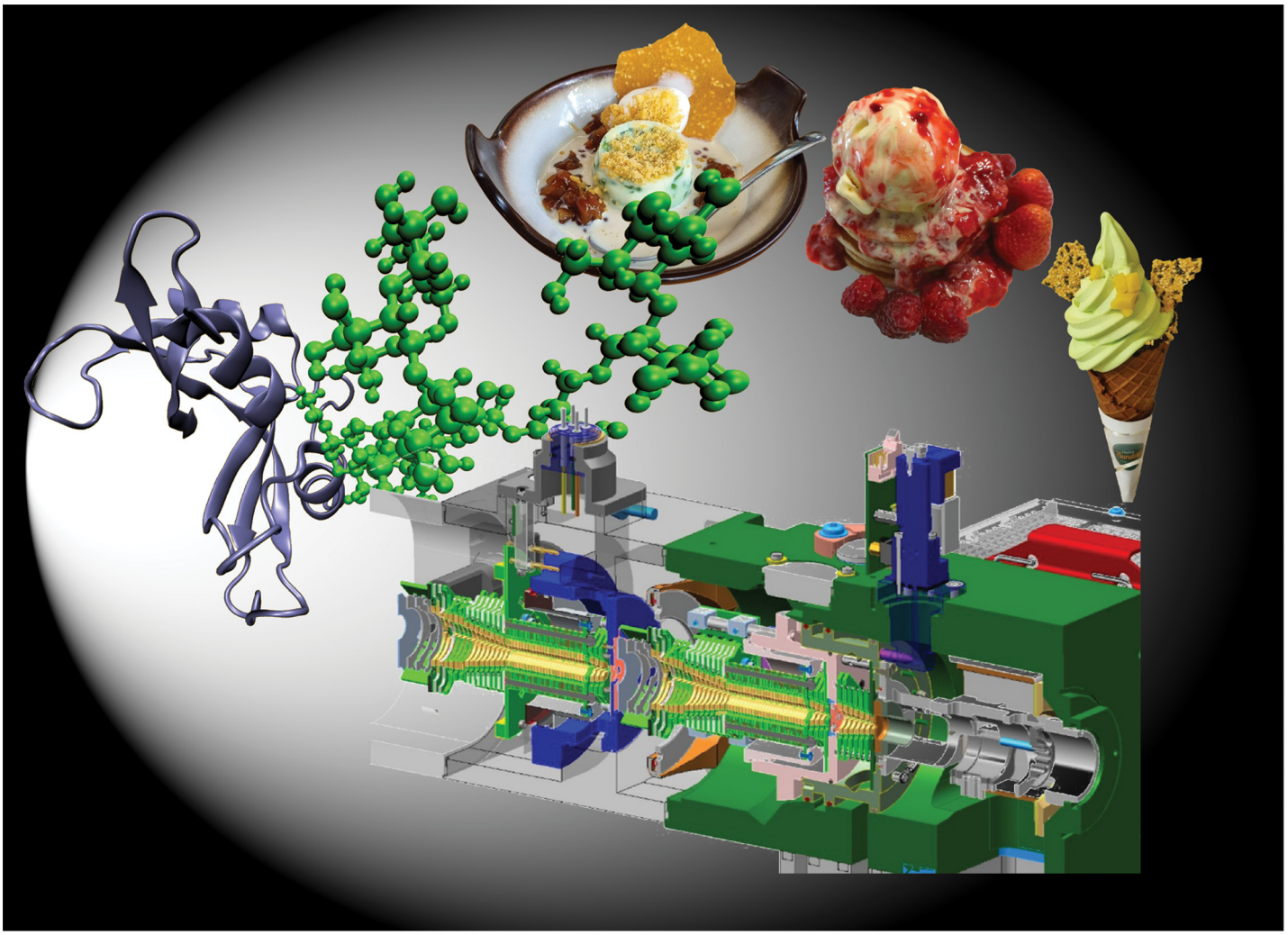


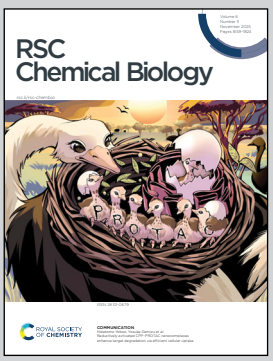
Showcasing research from Dr Liu's laboratory, Department of Chemistry and Biochemistry, Florida State University, Tallahassee/Florida, USA.

Differential melting voltage by tandem-trapped ion mobility spectrometry: glycan structure influences glycoprotein stability

Glycoproteins represent a major portion of the human proteome, comprising roughly 50–70% of all proteins. Profiling the full spectrum of protein glycoforms is critical to understanding their cellular functions. We developed the differential melting voltage approach using tandem-ion mobility/tandem-mass spectrometry to correlate the stability of individual glycoforms with their molecular characteristics. We applied this method to study Ribonuclease B and discovered that, in addition to glycan mass and protein size, the glycan structure also contributes to regulating glycoform stability.

Image reproduced by permission of Fanny Caroline Liu from *RSC Chem. Biol.*, 2025, **6**, 1711.

As featured in:



See Fanny C. Liu *et al.*, *RSC Chem. Biol.*, 2025, **6**, 1711.

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