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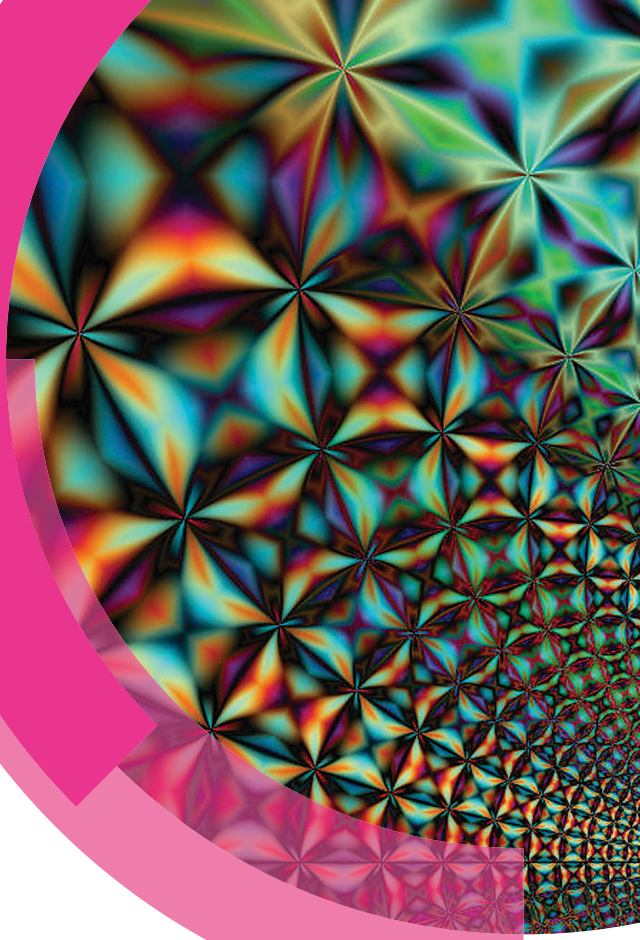

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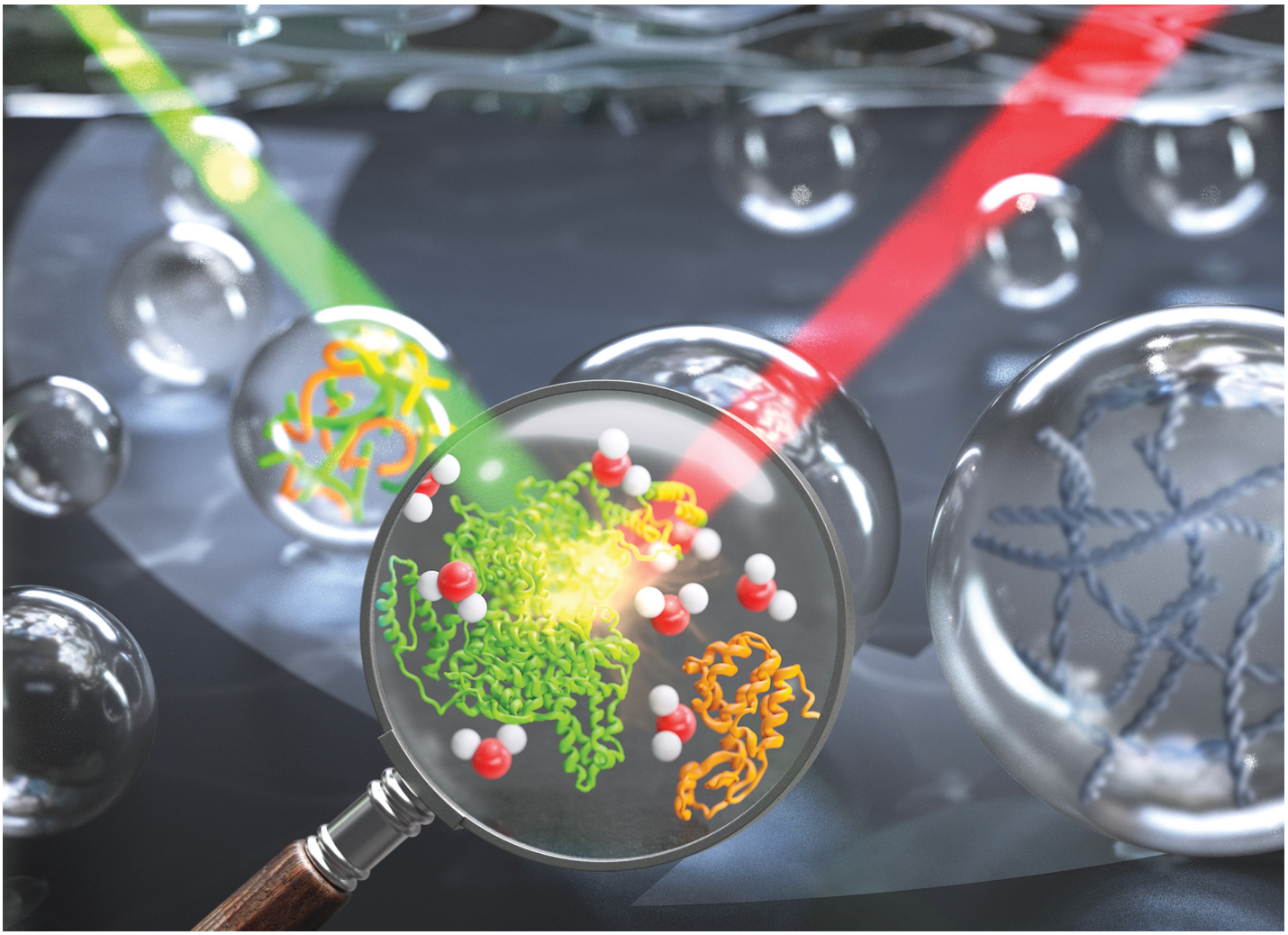

Showcasing research from the Center for Molecular Spectroscopy and Dynamics, Institute for Basic Science, Korea University, Seoul, Republic of Korea

Micro-Raman spectroscopic analysis of liquid–liquid phase separation

The focus of our study was to gain insight into the molecular mechanism responsible for liquid–liquid phase separation (LLPS) in heterogeneous protein systems. We utilized micro-Raman spectroscopy to analyze the conformational changes of proteins and the hydrogen-bond structure of water during LLPS. Our findings suggest that micro-Raman spectroscopy is an effective tool for examining protein conformational changes within droplets. Moreover, our investigation revealed that the hydration environment within droplets is distinct from bulk water and plays a key role in LLPS formation.

As featured in:

See Kyungwon Kwak, Minhaeng Cho *et al.*, *Phys. Chem. Chem. Phys.*, 2023, **25**, 9051.

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