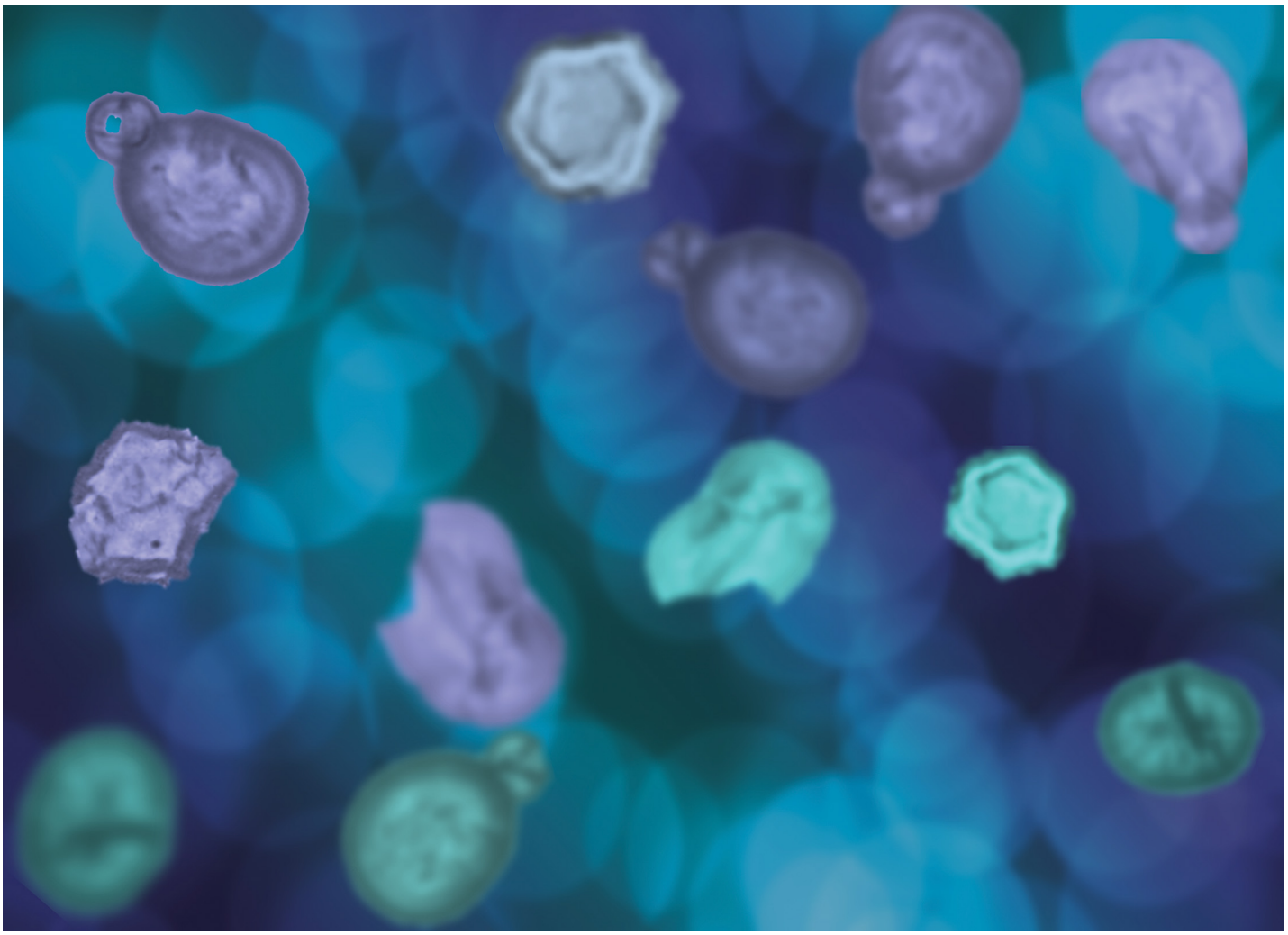

Showcasing research from laboratories of Prof. Vivek Narsimhan,[1] Prof. Ganesan Narsimhan,[2] and Prof. John Frostad.[3]

1 Davidson School of Chemical Engineering, Purdue University, West Lafayette, IN, USA

2 School of Agricultural and Biological Engineering, Purdue University, West Lafayette, IN, USA

3 Department of Chemical and Biological Engineering, University of British Columbia, Vancouver, Canada

A refined mechanistic model for swelling kinetics of starch granules

This work investigates the swelling (gelatinization) of starch granules in water using microscopy and develops a theory to describe the kinetics of this process by borrowing ideas from polymer physics. The drawing is an artistic rendering of starch granules in water (using actual microscopy images).

Image reproduced by permission of John Frostad, Ganesan Narsimhan and Vivek Narsimhan from *Soft Matter*, 2025, **21**, 4351.

The background is from Turned-on Bokeh Light image by Dana Tentis *via* Pexels.com. Microscopy images from Prof. John Frostad.

As featured in:

See Vivek Narsimhan, John M. Frostad *et al.*, *Soft Matter*, 2025, **21**, 4351.

ROYAL SOCIETY OF CHEMISTRY

rsc.li/soft-matter-journal

Registered charity number: 207890