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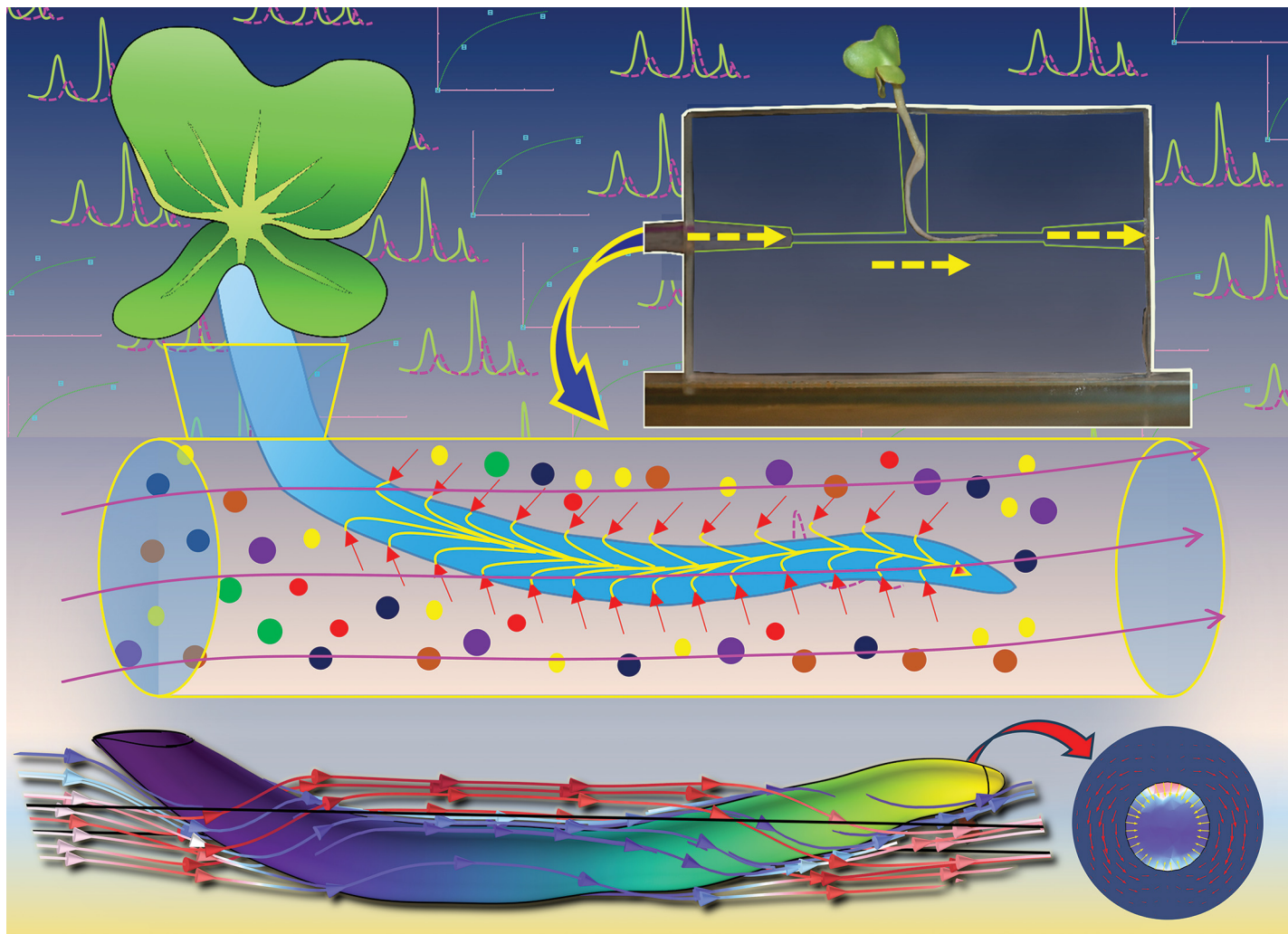
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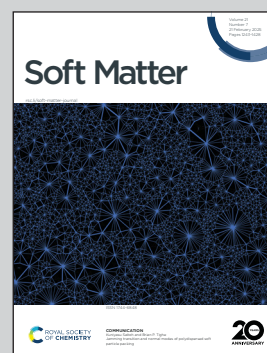


Highlighting research from the group of Professor Pranab Kumar Mondal of the Phytofluidics, Microfluidics and Microscale Transport Processes Laboratory, Department of Mechanical Engineering, Indian Institute of Technology (IIT), Guwahati.

Flow environment affects nutrient transport in soft plant roots

The study investigates convection-driven nutrient transfer along with Michaelis-Menten kinetic parameters within the soft roots of Indian mustard (*Brassica juncea*), revealing reduced uptake and increased stress at higher flow rates, with metabolite activity strongly influenced by flow conditions.

As featured in:



See Pranab Kumar Mondal *et al.*, *Soft Matter*, 2025, 21, 1269.