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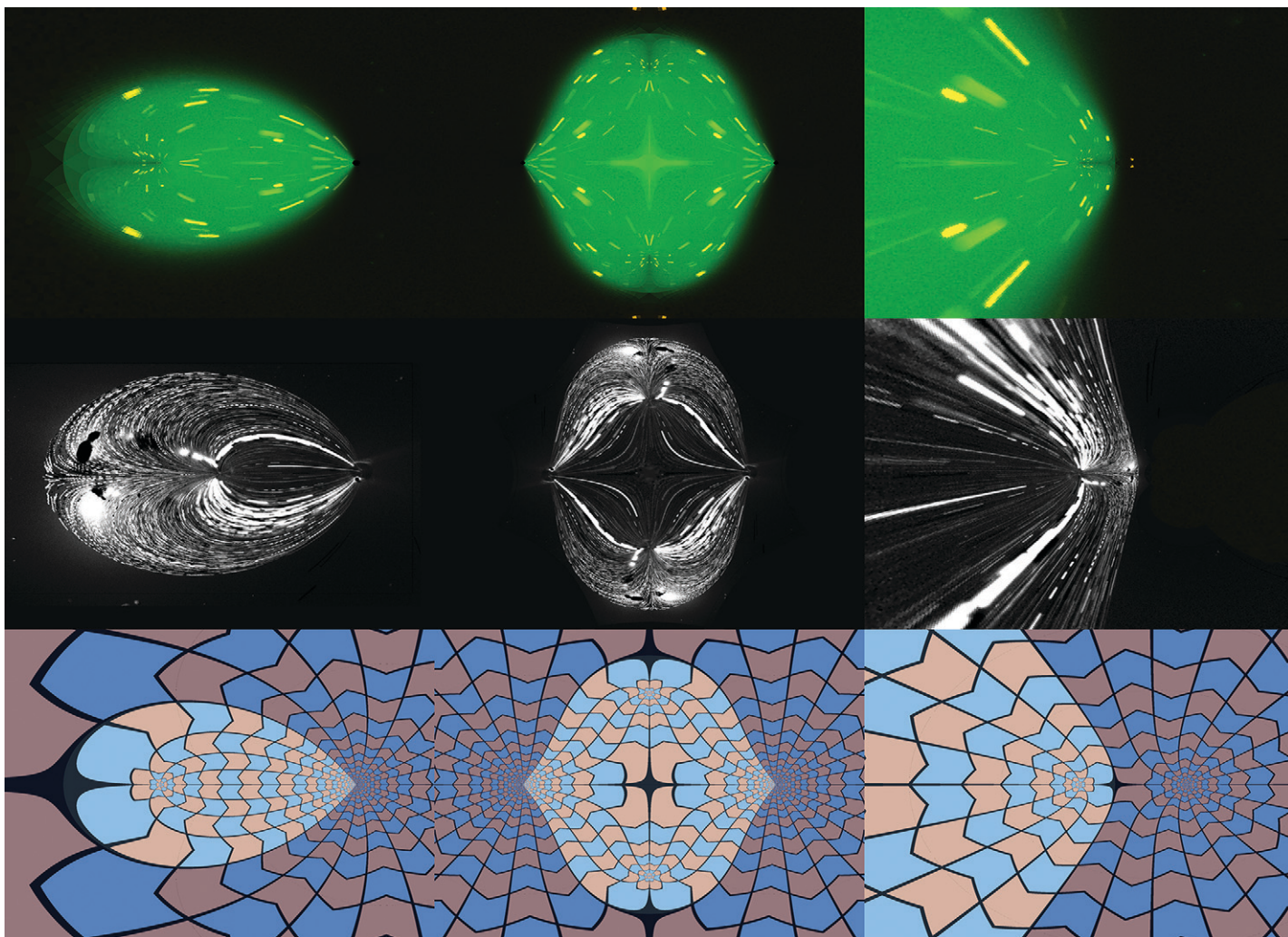
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Showcasing research from Professor Thomas Gervais' laboratory, Department of Engineering Physics, Polytechnique Montreal, Quebec, Canada.

The 2D Microfluidics Cookbook – Modeling convection and diffusion in plane flow devices

From a reference image or analytical solution of a 2D convection-diffusion problem, we show in this tutorial review how to predict, using simple mathematical tricks, flow streamlines and concentration profiles in almost any conceivable 2D flow profiles in microfluidic systems. The method extends the conventional hydraulic-electric analogy from pipe flow to flow fields, and yields a powerful design method to engineer both complex 2D flows and reagent concentration profiles. Copyright holders: Étienne Boulais & Pierre-Alexandre Goyette.

As featured in:



See Étienne Boulais
and Thomas Gervais,
Lab Chip, 2023, **23**, 1967.