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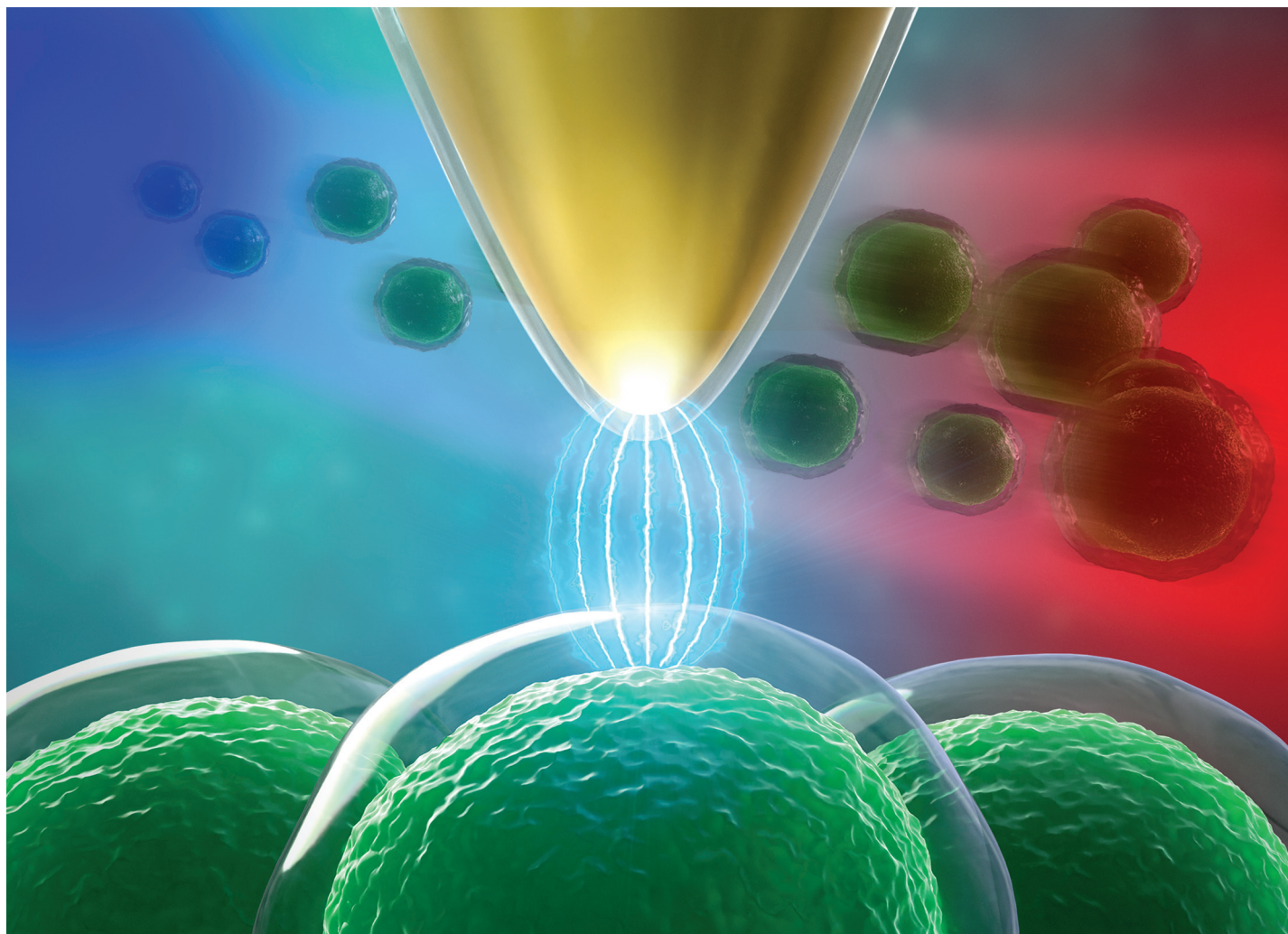
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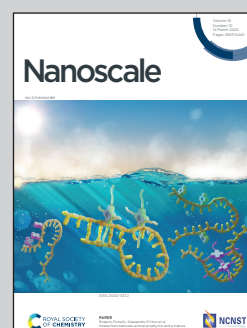


Showcasing research from the Laboratoire Interdisciplinaire des Environnements Continentaux-CNRS, France.

Physicochemical surface properties of *Chlorella vulgaris*: a multiscale assessment, from electrokinetic and proton uptake descriptors to intermolecular adhesion forces

This artistic cover illustrates how we addressed the interfacial properties of the unicellular green microalgae *Chlorella vulgaris*, from the population scale down to the molecular level. We highlighted i) the hydrodynamic softness of the algae cell surfaces and their physicochemical heterogeneity in aqueous solution, ii) the major influence of cell physiology on the establishment of charge balance at the cell/solution interface, and iii) the relative contributions of electrostatics/hydrogen-bonds/hydrophobicity to the overall interaction pattern of the algal surface with its aquatic microenvironment.

As featured in:



See Nicolas Lesniewska, Jérôme F. L. Duval, Audrey Beaussart *et al.*, *Nanoscale*, 2024, **16**, 5149.