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Study Shows That Liposomes Have Potential Application in Nanotechnology

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University of Granada scientists and the Spanish Higher Institute for Scientific Research (CSIC) have made significant progress in understanding lipid membranes, which are extensively employed in the development of cosmetic and drug products, and which have potential application in the field of nanotechnology.





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Phospholipid vesicles (liposomes) are colloidal systems that arise considerable interest from the





pharmaceutical, cosmetic and food industry, since they are biocompatible in protein, nucleic acid, drug, etc encapsulation. Further, from a scientific perspective, liposomes are considered a model system of cell membranes that have been implemented in the study of biological transport processes through cell membranes, as well as in the study of aggregation processes induced by biological substances, etc.

To develop products of biotechnological interest, understanding thoroughly the electrostatic properties cterization of these membranes is necessary. This was the purpose of Alberto Martín Molina and César Rodríguez Beas, from the Department of Applied Physics of the University of Granada, and Jordi Faraudo from the Instituto de Ciencias de Materiales in Barcelona (CSIC), authors of a study recently published in

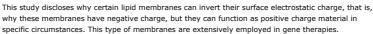


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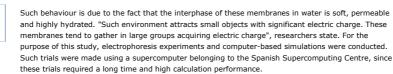
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Inverting its Electrostatic Charge









the journal Physical Review Letters (Vol. 104; pp 168103 (2010). 104, pp 168103 (2010)).

After a sustained period of several months, researchers obtained revealing results from simulations, which allowed them to prepare a new inversion mechanism for their experimental system. This mechanism is as follows: phospholipid membranes have the ability to absorb lanthanum cations, which go from being associated to the solution water molecules to associating to the membrane

atoms.

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