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Debora's scientific background is Physical Chemistry of Soft Matter. Her research topics include hybrid nanoparticle/lipid assemblies for responsive drug delivery, interaction of nanostructured assemblies with model membranes, design and application of nanostructured fluids for the conservation of cultural heritage. Prof Berti has been national coordinator of the Research Programme "Nanostructured Soft Matter: from Fundamental Research to Novel Applications and local coordinator of the EU-IAPP DNA-TRAP (2013-2017) and currently contact coordinator for the FET-OPEN EVFoundry for CSGI (project coordinator).

Prof Berti has a well-established track record of her work, with more than 120 authored or co-authored research papers and several chapters contributed in specialized books.

She is co-Editor of the Journal of Colloid and Interface Science (Elsevier), member of the Ownership Board of the journal Physical Chemistry Chemical Physics, (Royal Society of Chemistry), member of the Review Panel of the Partnership for Soft Condensed Matter (PSCM, ILL-ESRF). She was the President of the European Colloid and Interface Society (2013-2015), member of the Soft Matter group of the scientific panel of the HZB--Berlin and member of the Elettra Proposal Review Panel for the SAXS beamline. She edited the book Colloidal Foundations of Nanoscience, published by Elsevier in 2014.