

Gerardino D'Errico is associate professor of Physical Chemistry at the Department of Chemical Sciences of the University of Naples Federico II. His scientific research is aimed at the spectroscopic characterization of the supramolecular aggregates formed by natural lipids and of their interactions with peptides and proteins, with a specific focus on the processes occurring at the aggregate interface. In this framework, he investigated relevant biological processes involving biomembranes, such as the viral fusion and the β -Amyloid self-aggregation. Currently, he is studying the effect of polyunsaturated fatty acids on membrane/protein interaction and the response of model bacterial membranes to antimicrobial peptides. The multidisciplinary approach to the subjects led Gerardino D'Errico to carry out part of his research activity in collaboration with many national and foreign partners, including the il Max Plank Institute for Biophysical Chemistry di Göttingen (Germany), the Division of Physical Chemistry of Lund University (Sweden) and the Chemistry Department of the Coimbra University (Portugal). Besides the fundamental understanding, he is interested in the mechanism of action of molecules of pharmaceutical interest, aiming at the optimization of their molecular design (2 patents). At present, he is external consultant of various companies, including P&G. Gerardino D'Errico is author of about 130 scientific publications on international journals (H-index = 30) and various invited reviews for well-known series. He is member of Editorial Board of the journal Current Pharmaceutical Design. Since 2013, he is member of the board of the Directors of the Division of Physical Chemistry of the Italian Society of Chemistry.