



## Personal information

Name: Concetta Giancola  
Location: Naples, IT  
AICAT member since: 1985



**Position:** Full Professor of Physical Chemistry (CHIM/02)

**Affiliation:** Department of Pharmacy University of Naples Federico II, V. D. Montesano 49, 80131 Napoli



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**Education and positions:** Degree in Chemistry, University of Naples Federico II (1983); Fellowships (University of Naples, 1984; University of Pisa 1986,1987; National Research Council in Pisa, 1986-87); Ph.D. in Chemical Sciences, University of Naples Federico II (1992); Assistant Professor of Physical Chemistry (1991-2001); Associate Professor of Physical Chemistry, Dept. of Chemistry, University of Naples (2001-2013); Visiting Professor, Dept. of Biochemistry & Molecular Biology, University College London, UK (2001, 2003); Visiting Professor, Randall Division of Cell & Molec. Biophysics, King's College London, UK (2007); Associate Professor of Physical Chemistry, Dept. of Pharmacy, University of Naples Federico II (2013-2017); Full Professor of Physical Chemistry, Dept. of Pharmacy, University of Naples (2017 up to date);

**Main fields of interest:** Main research interests are in the field of the physico-chemical characterization of biological macromolecules (proteins and nucleic acids) and their interactions with small molecules, drugs, or other bio-macromolecules. Studies are based on experimental and computational approaches.

**Methods:** Differential Scanning Calorimetry, Isothermal Titration Calorimetry, Spectroscopy (CD, SPR, fluorescence)

**Professional activities:** Associate Editors in the Bio-, Lifesciences and Pharmaceuticals subject areas of the Journal of Thermal Analysis and Calorimetry; Guest Editor of the Special Issue "G-quadruplex", Biochimica et Biophysica Acta (BBA) - General Subjects (2017); Guest Editor of the Special Issue "Recent Development in the Field of Calorimetry, Thermal Analysis and Applied Thermodynamics" of Journal of Thermal Analysis and Calorimetry (2017)

**Publication record** ~ 130, citations ~ 2700, *h-index* 28

**Equipments:** Nano-DSC (TA Instruments) Nano-ITC (TA Instruments).

### 5 most important publications:

Martino L, Pagano B, Fotticchia I, Neidle S, Giancola C. Shedding light on the interaction between TMPyP4 and human telomeric quadruplexes. *Journal Physical Chemistry B* (2009), 113, 14779-86. DOI: 10.1021/jp9066394

Petraccone L, Spink C, Trent JO, Garbett NC, Mekmaysy CS, Giancola C, Chaires JB. Structure and stability of higher-order human telomeric quadruplexes. *Journal of the American Chemical Society* (2011), 133, 20951-61. DOI: 10.1021/ja209192a

Petraccone L, Malafronte A, Amato J, Giancola C. G-quadruplexes from human telomeric DNA: how many conformations in PEG containing solutions? *Journal of Physical Chemistry B* (2012), 116(7), 2294-305. DOI: 10.1021/jp209170v

Fotticchia I, Fotticchia T, Mattia CA, Netti PA, Vecchione R, Giancola C. Thermodynamic Signature of Secondary Nano-Emulsion Formation by Isothermal Titration Calorimetry. *Langmuir* (2014), 30, 14427-14433. DOI: 10.1021/la503558w

Di Fonzo S, Bottari C, Brady JW, Tavagnacco L, Caterino M, Petraccone L, Amato J, Giancola C, Cesàro A. *Phys Chem Chem Phys.* (2019), 21(4), 2093-2101. doi: 10.1039/c8cp04728f