

PERSONAL INFORMATION

Dimitrios Fessas
 Dipartimento di Scienze per gli Alimenti, la Nutrizione e l'Ambiente
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POSITION

Associate Professor (Physical Chemistry)

PROFESSIONAL EXPERIENCE

- 2005 - Associate Professor of Physical Chemistry at the Department of Food, Environmental and Nutritional Sciences (DeFENS ex DiSTAM), University of Milan
- 1996-2004 Assistant Professor (Physical Chemistry) at the Department of Food Science and Technology (DiSTAM), University of Milan

EDUCATION AND TRAINING

- 1995 PhD in Chemical Sciences at the University of Naples, Italy
- 1991-1992 Two CNR (Italian National Research Center) scholar fellows (Physical Chemistry), University of Naples, Italy
- 1990 Graduated in Physics, University of Naples, Italy

PERSONAL SKILLS

Mother tongue Italian, Greek

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

ADDITIONAL INFORMATION

Honours and awards

Full professor habilitation (ASN, 2017)

Since 2002 is nominate "Qualified Expert" in Radiological Protection (II degree, Ministry list no 1968)

Publications

He is author of about 90 publications, appeared in international journals and/or books and more than 130 presentations in international congresses. The publication list is available on the website <http://users.unimi.it/thalasa/dimitrios2.htm> or <https://air.unimi.it/>
 ORCID: <https://orcid.org/0000-0003-4998-308X>

Research fields

Topic 1. **Physico-chemical properties of food and pharmaceutical systems.**

Phase and conformational transitions, phase separation, gelatinisation (starch), crystallization, glass transition, water state, aggregation, meta-stability etc., of biopolymers in complex systems; thermodynamics and kinetics of adsorption/desorption processes; microbial growth and metabolism (studied by isothermal calorimetry).

Topic 2. **Thermodynamics of biological macromolecules in solution.**

Conformational stability; specific and/or aspecific macromolecule - ligand binding phenomena.

Topic 3. **Characterization of cultural heritage biomaterials.**

Main experimental approach:

Thermal Analysis and Calorimetry

Laboratory instrumentation: Isothermal titration microcalorimeter (Calvet) DAM (Setaram France); Thermogravimetry combined DSC TGA-DSC 111 (Setaram France); Microcalorimeter Micro DSC III (Setaram France); Calorimeter DSC C80D (Setaram France); Calorimeter DSC 6 (Perkin Elmer); Calorimeter DSC 20 (Mettler); Isothermal titration nano calorimeter Nano-ITC III Model 5300 (CSC USA); Nano Calorimeter Nano-DSC Model 6300 (CSC USA);

Modulated Scanning Calorimeter DSC 2920 (TA Instruments); Modulated Adiabatic Scanning Calorimeter MASC 2 (CNR - IPCF T-lab Pisa, Italy); CD Spectropolarimeter J-810 (Jasco Corporation, Japan); Texture Analyzer TA-Hdi (Stable Micro Systems, UK)

EU projects: Coordinator: of the European Project INTAS Ref. Nr 04-82-7253 (2005 - 2008) "Isolation of high levels of native gossypol from cotton seeds and synthesis of new water - soluble supramolecular gossypol complexes having high interferon inducing activity"

Participation in:

FAIR CT97-3069; FAIR CT98-4170; EESD EVK4-2001-00099; EU EVK4-CT-2001-00061 (sub contractor); INTAS 2000-06-81; FP7 REGPOT-2009-1 Project "ARCADE" (GA 245866).

Courses 2018-2019: The list of Courses is available on the website: <http://users.unimi.it/thalasa/dimitrios2.htm>

Other University Activities: From 2011 to 2015 was in charge of the Radioprotection service of 21 Departments of the University of Milan (Rector Decree 0270182, 29.09.2010)

Since 2013 member of the board of teachers of PhD program in "Food Systems"

Member of the Didactic Commission for the Course of Food Science and Technology (STAL-G29, G60)

Member of the board of teachers of various Degree Courses

Students tutoring service

Memberships: Since 1993 is member of the Italian Association of Calorimetry and Thermal Analysis (AICAT) also as member of the Board of Directors.

Since 2002 is member of the National Professional Association of Italian Qualified Experts in Radiological Protection.

Personal information I authorize the handling of personal information in this curriculum, according to D.Lgs n. 196/03), and following modifications and Regulations EU 679/2016 (General Regulations concerning Data Protection or GRDP) and art. 7 of University Regulations concerning protection of personal information.

Academic Year, 2018-2019

Prof. Dimitrios Fessas

