

CURRICULUM VITAE **MARIA NEVE OMBRA**

PERSONAL INFORMATION

Surname, Name	OMBRA MARIA NEVE
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Nationality	ITALIAN

WORK EXPERIENCE

Period (from – to)	APRIL 2004 - PRESENT
Name of employer	National Research Council of Italy, Institute of Food Sciences (CNR-ISA)
Type of business or sector	Public Research Institution
Occupation or position held	Researcher
Period (from – to)	SEPTEMBER 1998-MARCH 2004
Name of employer	National Research Council of Italy, Institute of Population Genetics-Alghero SS
Type of business or sector	Public Research Institution
Occupation or position held	Researcher

EDUCATION

Period (from – to)	1988
Name and type of organization providing education	Degree cum laude in Biology at “ Federico II “ Naples University
Title of qualification awarded	

NATIVE LANGUAGE **ITALIAN**

OTHER LANGUAGES
ENGLISH

TRAINING (main)

1989-1991	Fellowship at the Institute of Genetics and Biophysics IIGB-CNR (Na) as the agreement CNR-MISM (lab prof. J. Guardiola). She studied the structure and the transcriptional regulation of human HLA-class II genes.
1992	Research fellow for the Istituto Superiore di Sanità. She was interested in HIV1 antigenic peptides presentation to human lymphocytes by HLA-class II proteins at the IIGB-CNR (Na).
1995	Fellowship. “ Progetto finalizzato CNR “ (regulation of G6PDH gene), at IIGB-CNR (Na).
1996-1997	Short-term contracts as research assistant at IIGB-CNR lab prof. J. Guardiola.

**Research
Activities/Projects**

(main)

Ogliastro project for the study of the interactions between genetic and environmental factors in the pathogenesis of complex diseases, in genetically isolated populations.

FIRB RBNE0157EH project : "Identification and functional analysis of the molecular and genetic alterations in hormone-responsive breast tumors".

Sardinia Region L.R. 19/96, (Prof. Musumeci of the University of Sassari) Cytokines and opioid peptides in human colostrum.

Collaboration with dr Ascierio PA and dr Palmieri G to study NEMO-binding peptide interactions in vitro, on melanoma cell lines.

Transcriptional regulation of responsive estrogen genes in breast cancer cell lines, analyzing some epigenetic modifications that occur during transcriptional activation.

Analysis of plant matrix extracts in vitro to identify compounds with antiproliferative activity on human tumor cell lines.

BE & SAVE project (PON Research and Competitiveness 2007-2013 "Smart Cities and Communities").

AgroBiodiversity Campana project: multiplication, conservation and characterization of native herbaceous plant genetic resources (ABC)

Publications

40 articles in International Scientific Journals (ISI WoS)

4 Chapters in books (international),

20 abstracts in international or national congresses

1 patents

Date, december 13 2021

Main publications

Fратиани F.; Ombra M.N.; Caputo, L.; Amato, G.; De Feo, V.; Coppola, R. D'acierno A.; Nazzaro F. Polyphenols content and in vitro α -glycosidase activity of different Italian monofloral honeys, and their effect on selected pathogenic and probiotic bacteria in *Microorganisms* 2021; 9(8),1694

Ombra M.N.; d'Acerno A.; Nazzaro F.; Spigno P.; Riccardi R.; Zaccardelli M.; Pane C.; Coppola R.; Fratianni F. Alpha-amylase, α -glucosidase and lipase inhibiting activities of polyphenol-rich extracts from six common bean cultivars of Southern Italy, before and after cooking in *International journal of food sciences and nutrition* 2018; 69(7):824-834

Ombra M.N.; Cozzolino A.; Nazzaro F.; d'Acerno A.; Tremonte P.; Coppola R.; Fratianni F. Biochemical and biological characterization of two Brassicaceae after their commercial expiry date in *Food chemistry* 2017; 218:335-340

Ombra MN, Fratianni F, Granese T, Cardinale F, Cozzolino A, Nazzaro F. In vitro antioxidant, antimicrobial and anti-proliferative activities of purple potato extracts (*Solanum tuberosum* cv Vitelotte noire) following simulated gastro-intestinal digestion. *Natural Product Research* 2015; 29(11):1087-91

Palmieri G, Ombra M, Colombino M, Casula M, Sini M, Manca A, Paliogiannis P, Ascierio PA, Cossu A. Multiple Molecular Pathways in Melanomagenesis: Characterization of Therapeutic Targets. *Front Oncol* 2015; 5:183

Perillo B, Di Santi A, Cerneria G, Ombra MN, Castoria G, Migliaccio A. Nuclear receptor-induced transcription is driven by spatially and timely restricted waves of ROS. The role of Akt, IKK α , and DNA damage repair enzymes. *Nucleus* 2014;5(5) 482-491.

Perillo B, Di Santi A, Cerneria G, Ombra MN, Castoria G, Migliaccio A. Phosphorylation of H3 serine 10 by IKK α governs cyclical production of ROS in estrogen-induced transcription and ensures DNA wholeness. *Cell Death Differ* 2014;21(9):1503.

Ianaro A, Tersigni M, Belardo G, Di Martino S, Napolitano M, Palmieri G, Sini M, De Maio A, Ombra M, Gentilcore G, Capone M, Ascierio M, Satriano RA, Farina B, Faraone-Mennella M, Ascierio PA, Ialenti A. NEMO-binding domain peptide inhibits proliferation of human melanoma cells. *Cancer Lett* 2009;274(2):331-6.

Ombra MN, Perillo B, Bertoni A, Cuzzo C, Sacchetti S, Sasso A, Chiariotti L, Malorni A, Abbondanza C, Avvedimento EV. DNA oxidation as triggered by H3K9me2 demethylation drives estrogen-induced gene expression. *Science* 2008; 319(5860):202-6.

Ombra MN, Casula S, Biino G, Maestrale G, Cardia F, Melis P, Pirastu M. Urinary glycosaminoglycans as risk factors for uric acid nephrolithiasis: case control study in a Sardinian genetic isolate. *Urology* 2003; 62(3):416-20.

Gianfrancesco F, Esposito T, Ombra MN, Forabosco P, Maninchedda G, Fattorini M, Casula S, Vaccargiu S, Casu G, Cardia F, Deiana I, Melis P, Falchi M, Pirastu M. Identification of a novel gene and a common variant associated with uric acid nephrolithiasis in a Sardinian genetic isolate. *Am J Hum Genet* 2003; 72(6):1479-91

Ombra MN, Forabosco P, Casula S, Angius A, Maestrale G, Petretto E, Casu G, Colussi G, Usai E, Melis P, Pirastu M. Identification of a new candidate locus for uric acid nephrolithiasis. *Am J Hum Genet* 2001; 68(5):1119-29.

Ombra MN, Autiero M, De Lerma Barbaro A, Barretta R, Del Pozzo G and Guardiola J. Recognition of distinct HLA-DQA1 promoter elements by a single nuclear factor containing Jun and Fos or antigenically related proteins. *Nucleic Acid Research* 1993; 21:1811-8.

Maffei A, Perfetto C, Ombra MN, Del Pozzo G, Guardiola J. Transcriptional and post-transcriptional regulation of human MHC class II genes require the synthesis of short-lived proteins. *J Immunol* 1989; 142(10):3657-61.