

# Curriculum Vitae

## INFORMAZIONI PERSONALI

**Nome** MARIO GIUSEPPE  
**Cognome** MIRISOLA  
**Recapiti** DiBiMeF  
**Telefono** 091-6554605  
**Fax** 091-6554624  
**E-mail** mario.mirisola@unipa.it

## FORMAZIONE TITOLI

Academic studies:

1984-1989 Faculty of Sciences, Biological sciences, University of Palermo (summa cum laude)

1990-1994 Ph.D. E.M.B.L. (Heidelberg, FRG) and University of Palermo

1995 post doc University of Palermo

1995 Fogarty award from the National Institutes of Health, Bethesda, Maryland U.S.A.

1997 Specialty course on Medical genetics, University of Catania (summa cum laude)

1998 postdoc Pharmacia Upjohn and C.N.R. Palermo

1999-2000 Assistant researcher Medical School University of Palermo

1997-2001 Specialty in Medical genetics, University of Catania

2007-2009 Fubright fellow (University of Southern California)

## ATTIVITA' DIDATTICA

Docente di entrambi i moduli del corso integrato di Biologia e genetica del Corso di laurea magistrale in odontoiatria e protesi dentaria (11 CFU)

Docente della scuola di specializzazione di Patologia clinica

## ASSOCIAZIONI SCIENTIFICHE

Iscritto all'ordine nazionale dei biologi

membro dell'associazione italiana di biologia e genetica (A.I.B.G.)

fulbright fellow (US State Department)

EMBL ex alumni member

Referee per:

FEBS letters

Yeast

Microbial cell factories

BBA

## **PUBBLICAZIONE**

2013

A radical signal activates the epigenetic regulation of longevity  
Mirisola MG, Longo VD.

Cell Metab. 2013 Jun 4;17(6):812-3. doi: 10.1016/j.cmet.2013.05.015.

PMID: 23747240 [PubMed - in process]

Related citations

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2.

Assessing chronological aging in *Saccharomyces cerevisiae*.

Hu J, Wei M, Mirisola MG, Longo VD.

Methods Mol Biol. 2013;965:463-72. doi: 10.1007/978-1-62703-239-130.

PMID: 23296677 [PubMed - indexed for MEDLINE]

2012

Mirisola MG and Longo VD. (2012)

Acetic acid and acidification accelerate chronological and replicative aging in yeast.

Cell cycle, 11, 3087-3096.

2011

Mirisola MG, Longo VD (2011). Conserved role of Ras-GRFs in promoting aging: from yeast to mice.. AGING, vol. 3, p. 340-343, ISSN: 1945-4589

2009

Mirisola MG, Longo VD (2009). The yeast chronological lifespan to study aging and disease. In: Witt SN. YEAST AS A MODEL FOR HUMAN DISEASE. KERALA:Transworld Research Network, ISBN: 978-81-7895-395-32008

2008

SEIDITA G, MIRISOLA M, D'ANNA RP, GALLO A, JENSEN RT, MANTEY SA, GONZALEZ N, FALCO M, ZINGALE M, ELIA M, CUCINA L, CHIAVETTA V, ROMANO V, CALI F (2008). Analysis of the gastrin-releasing peptide receptor gene in Italian patients with autism spectrum disorders. AMERICAN JOURNAL OF MEDICAL GENETICS. PART B, NEUROPSYCHIATRIC GENETICS, vol. 6, p. 807-813, ISSN: 1552-4841

MIRISOLA M, DE LEO G, DI BELLA MA, TOGNON M (2008). Biologia e Genetica. p. 427-545, NAPOLI:Edises, ISBN: 9788879594486

2007

MIRISOLA M, GALLO A, DE LEO G (2007). Ras-pathway has a dual role in yeast galactose metabolism. FEBS LETTERS, vol. 581, p. 2009-2016, ISSN: 0014-5793

MIRISOLA M, COLOMBA L, GALLO A, AMODEO R, DE LEO G (2007). Yeast vectors for the integration/expression of any sequence at the TYR1 locus. YEAST, vol. 9, p. 761-766, ISSN: 0749-503X

2006

DI BELLA MA, CALI F, SEIDITA G, MIRISOLA M, RAGUSA A, RAGALMUTO A, GALES O, ELIA M, GRECO D, ZINGALE M, GAMBINO G, D'ANNA RP, REGAN R, CARBONE MC, GALLO A, ROMANO V (2006). Screening of subtelomeric rearrangements in autistic disorder: Identification of a partial trisomy of 13q34 in a patient bearing a 13q;21p translocation. AMERICAN JOURNAL OF MEDICAL GENETICS. PART B, NEUROPSYCHIATRIC GENETICS, vol. 141, p. 584-590, ISSN: 1552-4841

2005

V. ROMANO, F. CALI, MIRISOLA M, A. GALLO, L. ANGILERI, R. DANNA, G. GAMBINO, G.F. AYALA, G. SEIDITA, A. RAGALMUTO, M. ELIA (2005). Absence of mutations R451C and D396ter (1186 inst) in the neuroligins 3 and 4, genes respectively, in 140 Italian patients with autism spectrum disorders. AMERICAN JOURNAL OF MEDICAL GENETICS. PART B, NEUROPSYCHIATRIC GENETICS, vol. 138b, p. 69, ISSN: 1552-4841

ROMANO V, CALI F, SEIDITA G, MIRISOLA M, D'ANNA RP, GAMBINO G, SCHINOCCA P, ROMANO S, AYALA GF, CANZIANI F, DE LEO G, ELIA M. (2005). Suggestive evidence for association of D2S2188 marker (2q31.1) with autism in 143 Sicilian (Italian) TRIO families. PSYCHIATRIC GENETICS, vol. 15, p. 149-150, ISSN: 0955-8829

A. SALERNO, G. LAGO, A. BERTI, F. CALI, MIRISOLA M, P. CARTA, C. FERRO, V. ROMANO (2005). mtDNA analysis of the human remains buried in the sarcophagus of Federico II. JOURNAL OF CULTURAL HERITAGE, vol. 6, p. 313-319, ISSN: 1296-2074

2003

ROMANO V, CALI F, MIRISOLA M, GAMBINO G, D'ANNA R, DI ROSA P, SEIDITA G, CHIAVETTA V, AIELLO F, CANZIANI F, DE LEO G, AYALA GF, ELIA M (2003). Lack of association of HOXA1 and HOXB1 mutations and autism in Sicilian (Italian) patients. MOLECULAR PSYCHIATRY, vol. 8, p. 716-720, ISSN: 1359-4184

2002

FORSTER P, CALI F, ROHL A, METSPALU E, D'ANNA R, MIRISOLA M, DE LEO G, FLUGY A, SALERNO A, AYALA G, KOUVATSI A, VILLEMS R, ROMANO V (2002). Continental and subcontinental distributions of mtDNA control region types. INTERNATIONAL JOURNAL OF LEGAL MEDICINE, vol. 116, p. 99-108, ISSN: 0937-9827

CALI F, FORSTER P, KERSTING C, MIRISOLA M, D'ANNA R, DE LEO G, ROMANO V (2002). DXYS156: a multi-purpose short tandem repeat locus for determination of sex, paternal and maternal geographic origins and DNA fingerprinting.

MCDONALD JD, ANDRIOLO M, CALI F, MIRISOLA M, PUGLISI-ALLEGRA S, ROMANO V, SARKISSIAN CN, SMITH CB (2002). The phenylketonuria mouse model: a meeting review. MOLECULAR GENETICS AND METABOLISM, vol. 4, p. 256-261, ISSN: 1096-7192

2001

MIRISOLA M, CALI F, GLORIA A, SCHINOCCA P, D'AMATO M, CASSARA G, LEO GD, PALILLO L, MELI C, ROMANO V (2001). PAH gene mutations in the Sicilian population: association with minihaplotypes and expression analysis. MOLECULAR GENETICS AND METABOLISM, vol. 3, p. 353-361, ISSN: 1096-7192

COSTA M.A., DURO G., IZZO V., COLOMBO P., MIRISOLA M, LOCOROTONDO G., COCCHIARA R., GERACI D. (2000). The IgE binding epitopes of rParj2, a major allergen of Parietaria judaica pollen, are heterogeneously recognized among allergic subjects. ALLERGY, vol. 55, p. 246-250, ISSN: 0105-4538

1998

COLOMBO P., DURO G., COSTA M.A., IZZO V., MIRISOLA M, LOCOROTONDO G., COCCHIARA R., GERACI, D. (1998). An update on allergens: Parietaria pollen allergen. ALLERGY, vol. 53, p. 917-921, ISSN: 0105-4538

COLOMBO P., KENNEDY D., RAMSDALE T., COSTA M.A., DURO G., IZZO V., SALVADORI S., GUERRINI R., COCCHIARA R., MIRISOLA M, WOOD S., GERACI, D. (1998). Identification of an immunodominant IgE epitope of the Parietaria judaica Major allergen. JOURNAL OF IMMUNOLOGY, vol. 160, p. 2780-2785, ISSN: 0022-1767

1997

MIRISOLA M, PELLERITO A., FIORE T., STOCCO G.C., PELLERITO L., CESTELLI A., DILIEGRO I (1997). Organometallic Complexes with Biological molecules: VII. Dialkyl- and trialkyl-tin (IV) meso tetra(4-carboxyphenyl porphinate Derivatives: Solid-state, solution phase structural aspects and in vivo effects. APPLIED ORGANOMETALLIC CHEMISTRY, vol. 11, p. 499-511, ISSN: 0268-2605

1996

DURO G., COLOMBO P., COSTA M.A., IZZO V., PORCASI R., DI FIORE R., LOCOROTONDO G., MIRISOLA M, COCCHIARA R., GERACI, D. (1996). cDNA cloning, sequence analysis and allergological characterization of Par j 2.0101, a new major allergen of the *Parietaria judaica* pollen. FEBS LETTERS, vol. 399, p. 295-298, ISSN: 0014-5793

1994

MIRISOLA M, SEIDITA, G., KAVOUNIS, C., FASANO O. (1994). Phosphorylation of an Overexpressed Yeast RAS2 Protein during the G1 Phase of the Cell Cycle. In: RUSSO, N., ANASTASSOPOULOU, J. AND BARONE, G.. Chemistry and Properties of Biomolecular Systems. p. 353-362

MIRISOLA M, SEIDITA, G, VERROTTI, A.C., DI BLASI, F., FASANO, O (1994). Mutagenic alteration of the distal switch II region of RAS blocks CDC25-dependent signaling function. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, p. 15740-15748, ISSN: 0021-9258

1993

SEIDITA G., MIRISOLA M, DEVENDITTIS E., FASANO O. (1993). Regulatory residues of the adenylyl cyclase from the yeast *Saccharomyces cerevisiae*. ITALIAN JOURNAL OF BIOCHEMISTRY, vol. 42, p. 179-181, ISSN: 0021-2938

DI BLASI F., CARRA E., DE VENDITTIS E., MASTURZO P., BURDERI E., LAMBRINOUDAKI I., MIRISOLA M, SEIDITA G., FASANO O. (1993). The SCH9 protein kinase mRNA contains a long 5' leader with a small ORF. YEAST, vol. 9, p. 21-32, ISSN: 0513-5222

1992

VERROTTI A., CRECHET J.B., DI BLASI F., SEIDITA G., MIRISOLA M, KAVOUNIS C., NASTOPOULOS V., BURDERI E., PARMEGGIANI A., DE VENDITTIS E., FASANO O. (1992). Ras residues that are distant from the GDP binding site play a critical role in exchange factor stimulated release of GDP. EMBO JOURNAL, vol. 11, p. 2855-2862, ISSN: 0261-4189

**ATTIVITA' SCIENTIFICHE**

1989-1990 Dipartimento di Biologia Cellulare e dello Sviluppo DBCS Palermo.

Isolation and characterization of HSP70-like genes in *Streptomyces coelicolor*. (supervisor A.M. Puglia)

1990-1991 European Molecular Biology Laboratory EMBL Heidelberg (Germany)

1992-1994 DBCS Palermo (Italy)

Analysis of activation mechanism of Ras genes in the yeast *Saccharomyces cerevisiae*

(PhD program, supervisor Prof. O. Fasano).

1995-1999 Consiglio Nazionale delle Ricerche C.N.R. Palermo.

Isolation and molecular characterization of allergen on *Parietaria Judaica*. (supervisor. Dr. D. Geraci)

1999-2004 Dipartimento di Biopatologia e Metodologie Biomediche di Palermo.

in vitro expression analysis of human phenylalanine hydroxylase and genotype phenotype relationship; research of candidate genes in autism spectrum disorder (, supervisor Prof. V. Romano)

2007- present. University of Southern California and DiBiMeF

Yeast as a model for aging and aging-related diseases. Nutrition studies on humans and model organisms.

## **AMBITI DI RICERCA**

Nutrizione, pathway di risposta ai nutrienti, genetica della nutrizione, invecchiamento, invecchiamento cronologico, longevita', genetica della longevita', genetica molecolare, biologia molecolare, genetica dei microorganismi, lievito, biologia del lievito, genetica del lievito.