

PROF  
**BRUNO MARESCA**

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Dept of Pharmacy  
Division of Biomedicine  
University of Salerno, Italy

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<b>Place &amp; Date of Birth:</b>	Naples, Italy, August 11, 1950
<b>Citizenship:</b>	Italian and naturalized USA 1985
<b>Degree:</b>	Doctor in Biology (Plant Biochemistry) University of Naples Institute of Plant Physiology (Prof. G. Forti) Nov. 22, 1974
<b>Papers published</b>	105 publications, 8 Books (5 as editor, 2S as author), organizer of 16 Int'l meetings, and 120 presentations at Intl meetings
<b>Professional experience:</b>	
Oct. 1, 2005 – pr.	Professor of Microbiology, Dept. of Pharmaceutical and Biomedical Sciences, School of Pharmacy, University of Salerno
March 1, 2001 – Sept. 30, 2005.	Professor of Biochemistry, Dept. of Pharmaceutical Sciences, School of Pharmacy, University of Salerno
2010 - 2012	Member of <i>The World Academy of Art and Science</i> , PA, USA and member of the Board of Trustees.
2008 - pr	Head of the Scientific Council, Div. of BioMedicine, DIFARMA, University of Salerno
2004- 2007	Scientific Coordinator Int'l PhD Program with University of Quebec, Canada, <i>Biochemistry and Molecular Pharmacology</i> ,
October 2002 -2007	Scientific Director BraneTech, Rome, Italy
Dec. 1999 - Feb. 2001	Research Director (Professor, Direttore di Ricerca) in Biochemistry and Molecular Biology at Int'l Institute of Genetics & Biophysics, CNR, Naples, Italy
February 1984 - Nov. 1999	Permanent Member at the IIGB, CNR, Naples, Italy Head of the group: "Molecular Biology of Fungal Pathogenesis"
January 1989 - June 2000	Visiting Associate Professor at Washington University School of Medicine, Dept. of Internal Medicine, St.Louis, MO, USA
January 1996 - Nov. 2000	Member of the Scientific Committee of IIGB
Nov. 1994 - 1996	Member of the Scientific Board of BIOREX - Research & Development, Budapest, Hungary
Nov. 1, 1981 - Jan 31, 1984	Research Associate at the IIGB, Naples, Italy
Nov.1 1980 - Oct. 31, 1981	Research Associate at the Laboratory of Cell Biology, Rome, Italy, Prof. Glauco Tocchini Valentini

Oct. '98 - Dec. '98	Visiting Professor, National Institute of Basic Biology, Okazaki, Japan
Nov. 2, - Dec. 4, 1987	Visiting Scientist at the Eklund Biological Laboratory, National Science Foundation, McMurdo Station, Antarctica
Oct. 4, 1984 - Feb. 28, 1985	Visiting Associate Professor at the Somali National University, Faculty of Medicine, Dept. of Microbiology, Mogadishu, Somalia, as part of the Program of the European Community "Science et Technique au Service du Developpement".
Academic Year 1997/98	Visiting Professor of Cell Physiology, University of Salerno, Faculty of Pharmacy, Italy ("Professore a Supplente")
Academic Year 1991/92	Visiting Professor of Genetics, University of Messina, Italy ("Professore a Contratto")
Academic Year 1989/90	Visiting Professor of Microbial Genetics, Dept. of Developmental Biology, University of Palermo, Italy ("Professore a Contratto")
From 1983 to 1988	Scientific Consultant of the Mycology Center, Washington University, Medical School, Division of Infectious Diseases, St. Louis, MO,USA
Academic Years 1986/88	Associate Instructor at Washington University, Division of Infectious Diseases, Medical School, St. Louis, MO,USA
Academic Year 1983/84	Visiting Professor of Microbial Genetics, Dept. of Cellular Biology, Università della Calabria, Cosenza, Italy ("Professore a Contratto")
Academic Year 1981/82	Visiting Professor of Microbial Genetics, Institute of Microbiology, Postgraduate Medical School, University of Naples ("Professore a Contratto")
Nov. 1, 1975 - Aug. 31,1979	Postdoctoral Research Fellow & Research Associate at Washington University, School of Medicine, Dept. of Microbiology & Div. of Inf. Diseases, (Proff. D. Schlessinger and G. Medoff), St.Louis, MO, USA
Nov.1, 1974 - Oct. 31, 1975	Research Assistant at the Zoological Station, Naples, Italy, Dept. of Biochemistry

**Honor 1994:** D. Thienpoint Prize on Parasitology and Mycology Award, Koninklijke Academie voor Geneeskunde van Belgie and the Academie Royale de Medecine de Belgique for 1992-1994 and Janssen Res. Foundation.

## **Research Activity**

### **Main grants:**

2004-2007	Int'l PhD program with the University of Laval, Quebec, Canada, supported by MURST, Italy
2000-2004	MURST, Italy, Potenziamento dell'esistente Rete Scientifica sulle Proteine da Stress
2000-2001	Ministry of Health, Program on development of tuberculosis vaccine
1990-1995	NIH grant # AI 29609
1996-1999	NIH grant # HL-55960
1984-1987	European Union Grant # TSD M. 018.I (SB)
1989-1993	European Union Grant # TS2*-0132-I A
1988-2000	Italian National Program on AIDS, Ministry of Health
1997-1998	Progetto Strategico - CNR Cell Stress
1996-1999	NATO travelling award Italy/USA grant # SA.5-2-05
1990-1992	NATO travelling award Italy/USA grant # 5-205/RG890437

- 1996-1999 "Cloning of macrophage-induced genes in *H. capsulatum*", National Heart, Lung, and Blood Institute, NIH, USA; at Washington University co-PI with G.S. Kobayashi grant # HL-55960
- 1997 PI, "Identification of genes of *Histoplasma capsulatum*: involved in the adaptation process and during macrophage invasion". Funded by the Ministero della Sanità/Istituto Superiore di Sanità (Italian Ministry of Health), Italian National Program on AIDS Research
- 1996-1998 Italian CNR "Progetto Strategico" Cell Stress. National Coordinator
- 1996-1999 NATO Travel grant with G.S. Kobayashi, Washington University (SA.5-2-05)
- May 1990 - April 1995 Principal Investigator of an NIH grant at Washington University: "Dimorphism and Virulence in *Histoplasma capsulatum*" grant # AI 29609
- Oct.. 1993 - 1997 "Identification of novel Targets for Antifungal Developments by DDRT-PCR Technique". Contract from BAYER Pharma. Wüppertal, Germany
- Jan. 1992 - Dec. 1994 Co-principal Investigator:  
"Mechanisms of tolerance to Heat and water stress in potato cells", Italian Ministry of Agriculture and Forestry
- May. 1989 - Apr. 1993 Principal Investigator:  
"Studies on the induction of pathogenicity in the dimorphic fungus *Histoplasma capsulatum*: a molecular approach", funded by the European Economic Community in the Program "Science et Technique au Service du Developpment" sub-program "Medicine, Health and nutrition in Tropical and sub-Tropical Areas" Grant # TS2\*-0132(A)q
- 1990-1998 Principal Investigator "Physiological, Biochemical and Molecular Mechanisms of Temperature Adaptation" Italian Antarctic Resear Program, ENEA/CNR
- 1989 - 1996 Principal Investigator: "Identification of genes of *Histoplasma capsulatum*: involved in the adaptation process and during macrophage invasion". Funded by the Ministero della Sanità/Istituto Superiore di Sanità (Italian Ministry of Health), Italian National Program on AIDS Research
- Apr. 1984 - Jun. 1987 Principal Investigator of the Research Project: "Studies to develop better diagnostic and therapeutic tools for *Histoplasmosis* and *Histoplasmosis dubosii* in Somalia" funded by the European Economic Community in the Program "Science et Technique au Service du Develop-pment" Grant # TSD M. 018.I (SB)
- 1990-1992 NATO travelling award Italy/USA with Dr. Kobayashi, Washington University Medical Schhol, St. Louis, 5-205/RG890437
- 1990/92 Principal Investigator (Responsabile Unità Operativa) Progetto Strategico CNR "Cellular Stress"
- 1985 - 1987 "Responsabile Unità Operativa" (Principal Investigator) Progetto Finalizzato Controllo delle Malattie da Infezione, Sottoprogetto 3. Metodi e Protocolli Diagnostici (CNR) Espressione Genica nel Fungo Patogeno *Histoplasma capsulatum* " Unità Operativa # 74388

**Patents**

Peptides having antimicrobial activity  
Patent Appl. No. 05017198.2 filed on August 08, 2005 at the European Patent Office

Production of variant microorganisms (*H.capsulatum* and parasites) with altered composition of fatty acids with decreased virulence compared to wild types (Patent # RM92A000006).

Up-regulated  $\Delta^9$ -desaturase promoter of *H.capsulatum* for genetic

manipulation of membranes of microorganisms, pathogens, mammalian and fish cells (Patent Gentechnical No.P9503729).

Pharmaceutical compositions containing hydroxamic acid derivates  
96931924.3-2107  
P95 02843 sept 29, 1995

**Editorial Board Membership:**

1995 - 1998 Cell Stress and Chaperones, Edinburg, UK  
1996 - 1998 Current Drugs

**Previous Teaching experience**

Cell Physiology, University of Salerno, Faculty of Pharmacy, Dept.  
Pharmaceutical Sciences, Salerno, Italy, 1998/99

Molecular Biology, Dept. of Cellular Biology, Università della Calabria,  
Cosenza, Italy 1997/98

Genetic Engineering, University of Messina, Dept. of Genetics, Messina, Italy,  
1991/92

Microbial Genetics, Dept. of Developmental Biology, University of Palermo,  
Italy, 1989/90

Microbial Genetics, Dept. of Cellular Biology, Università della Calabria,  
Cosenza, Italy 1983/84

Microbial Genetics, Institute of Microbiology, Postgraduate Medical School,  
University of Naples, 1981/82

**Coordination of International Groups**

1993-1996 Co-chairman with Dr. John Mayer, Univ. of Nottingham, UK, of the European  
network Cell Stress Genes and their Protein Products supported by the  
European Science Foundation

1995 - 2000 Member of the European group of Thermal Biology (UK)

**Advisory Committee**

1991-1992 Member of the study session, "Science and Technology for Development"  
1992-1995 of the Commission of the European Community (STD3  
Programme)

**Activity as Adviser**

1993 to the International Foundation for Science, Stockholm, Sweden

1993 to the International Science Foundation, Washington DC, USA

1993 to Colcencias (National Agency for the development of Sciences) of  
Colombia

1988-1989 to the European Economic Community, Programme "Science and Technology  
for Development" (STD1, STD2)

1989-1993 to the Italian AIDS Program

1989 to the Natural Environment Research Council, UK

**Activity as Editor**

- 1994 B. Maresca and G.S. Kobayashi  
Molecular Biology of Pathogenic Fungi: A Laboratory Manual Telos Press,  
New York, pp. 1-590, 1994
- 1993 B. Maresca, G.S. Kobayashi and H. Yamaguchi,  
Molecular Biology and its Application to Medical Mycology, Springer-Verlag,  
Heidelberg, Germany
- 1991 B. Maresca and S. Lindquist  
Heat Shock, Springer-Verlag, New York, USA
- 1991 di Prisco, G., Maresca, B. and Tota, B.  
Marine Biology of Antarctic Fishes, Springer Verlag,  
Heidelberg, Germany
- 1989 di Prisco, G., Maresca, B. and Tota, B.  
Marine Biology of Antarctica, Pergamon Press, UK

**Activity as Author**

- 2010 *Microbiologia Molecolare e Cellulare*, McGraw Hill, Italy in preparation,  
University text book
- 1998 S. Colonna-Romano, A. Leone and B. Maresca  
Cloning of differentially expressed gens by DDRRT-PCR: A Laboratory  
Manual. Springer-Verlag, Heidelberg, Germany

**Organization of Meetings and Courses**

- September 23-26, 2010 24th Altenberg Workshop Korand Lorenz Institute, Vienna, Austria "The  
Emergence of Form", Co-Organizer with prof. J. Schwartz, Univ. of  
Pittsburgh, USA
- September 2002 Space and Time in cosmology and Biology  
University of Salerno, Fisciano, Italy
- 15-18 November 1997 Co- Organizer Stress proteins apoptosis in pre-natal  
development of cancer and Medicine Sydney, Australia
- 21 March, 1997 Co- Organizer con il Prof. Capaccioli, Osservatorio  
Astronomico di Capodimonte, Napoli del 3<sup>rd</sup> Napoli Thinkshop  
on Physics and Astrophysics Seeking for Life and Intelligence  
beyond the Solar System through the Drake Equation  
Capodimonte Observatory, Naples
- 12 February, 1996 BRLP-42: a molecule with chaperone inducing activity. Mode of action and  
pharmacological achievements  
William Harvey Research Institute, London
- 3-15 September, 1995 EMBO Course Cloning of differentially expressed genes by DDRT-PCR; in  
collaborazione con la Prof. A. Leone, CNR, Portici,
- 22-24 September, 1994 Organizer with Dr. Douglas Young, University of London, di un WORKSHOP  
DELLA EUROPEAN SCIENCE FOUNDATION

	Heat Shock Proteins in Infection and Immunity, Ravello, Italy
6-8 January, 1992	Organizer with Dr G. Kobayashi (Washington University, St.Louis) and Dr. I. Yamaguchi (University of Tokyo) of the NATO ADVANCED RESEARCH WORKSHOP Molecular biology and its application to medical mycology; Taormina, Sicily
17-20 September, 1990	Organizer with Dr Susan Lindquist (University of Chicago) Workshop: Heat Shock Ravello, Italy
Nov. 89 e Maggio 90	Organizer of Chances and Necessity in the Origin of Biological Diversity in collaboration with viamarconidieci Foundation And Istituto Italiano per gli Studi Filosofici, Naples, Italy
30 Maggio -1 Giugno, 90	Organizer with G. di Prisco and Prof. B. Tota of 2 <sup>nd</sup> International Conference Marine Biology of Antarctic Fish; Ravello, Italy
19-20 Settembre, 1988	Co-organizer of "IIGB Jubilee Symposium" Molecular Biology Revolution, Naples, Italy
6-8 Ottobre, 1986	Organizer with G. di Prisco and Prof. B. Tota of the 1 <sup>st</sup> International Conference Marine Biology of Antarctica Ravello, Italy

#### **Activity at the IIGB**

Jan. 1996 - Nov 2000	Member of the Scientific Committee of IIGB
Jan. 1987 - June 1989	Head of the "Molecular Biology Division" at IIGB
from Jan.1989	Head of IIGB Editing Office
from Jan.1989	Editor Member of the IIGB Journal <i>Forme</i>

#### **Meetings Attended as Invited speaker or chairman**

1978	XII Int'l Congress of Microbiology, Munich, W.Germany Invited speaker
1986	86 <sup>th</sup> Annual Meeting of the American Society for Microbiology, Washington, Invited speaker
1986	1 <sup>st</sup> International Conference "Marine Biology of Antarctica", Ravello, Italy, Invited speaker
1986	Panamerican Society of Microbiology & Parasitology, Panama City, Panama, Invited speaker
1988	VII Con. Scient. Soc. Ital. Microbiol. Biotecn. Microb., Lucca, Italy, Invited speaker
1989	FEBS meeting 1989, Symposium on "Heat shock proteins", Rome, Invited speaker
1990	2 <sup>nd</sup> International Conference "Biology of Antarctic Fishes", Ravello, Italy, Invited speaker
1990	4 <sup>th</sup> International Mycological Congress, Regensburg, W.Germany, Invited speaker
1990	3 <sup>rd</sup> European Congress on Cell Biology, Firenze, Italy, Chairman of the Symposium on "Cellular Responses to Environmental Stress"
1990	"Heat Shock", Ravello, Italy, September 17-20, 1990, Invited speaker
1991	"I Convezione Ass. Ital. Micopatol.", Roma, Italy, April 23-24, 1991, Invited speaker
1991	"Stress proteins & the heat shock response", Cold Spring Harbor, NY, USA, April 29-May 2, 1991 Invited speaker
1991	Marine Biology and Biotechnology, Ischia, Italy, May 27-31, 1991 Invited speaker
1991	XI ISHAM, Montreal, Canada, June 24-28, 1991, Invited speaker
1991	X Convegno Scientifico Soc. Ital. di Microbiol. e Biotecn. Microbiche, Viterbo, Italy, October 10- 12, 1991, Invited speaker
1992	Molecular Biology and its Application to Medical Mycology; NATO Workshop, Taormina, Jan. 6-8, 1992, Organizer and Invited speaker
1992	Sociedade Brasileira de Bioquímica e Biologia Molecular, Caxambu, Rio de Janeiro, Brasil May 19, 1992 Invited speaker
1992	VI International Congress of Toxicology, Rome, June 28, July 2, 1992, Invited speaker
1992	Thermal adaptation of Biological Membranes

- Cambridge, UK, August 9-13, Invited speaker
- 1992 Fungal Dimorphism, The University of Cambridge & Janssens Research Foundation, Cambridge, UK  
Sept. 1-4, 1992 Invited speaker
- 1992 International Iberoamerican Symposium: Advances in Host-Parasite Interactions in Fungal Research,  
Mexico City, Oct. 6-9, Invited speaker
- 1993 International Congress of Genetics, Birmingham, UK, Aug.15-21, Chairperson
- 1993 "Stress-Induced post-translational Protein Modification" ESF Workshop, Paris, Dec. 8-10, Invited  
speaker
- 1994 XII ISHAM, Adelaide, Australia, March 13-18, Chairperson
- 1994 International Union of Microbiological Societies, Prague, July 3-8, Invited speaker
- 1994 5<sup>th</sup> Int'l Mycological Congress, Vancouver, Canada, Aug. 14-21, Invited speaker
- 1995 Regulation of expression of cell stress genes, ESF workshop, Ravello, Apr 1-3;  
Invited speaker
- 1995 Society for Experimental Biology, St. Andrews, Scotland, April 3-7, Invited speaker
- 1995 Heat Shock, Ric'95, Tokyo, Japan, May 8-11; Invited speaker
- 1995 Host-Fungus Interplay - 5<sup>th</sup> Symposium on topics in mycology, Stanford, USA,  
June 27-30; Invited speaker
- 1996 Stress signaling and stresses in plants, Okazaki, Japan Jan. 9-11; Invited speaker
- 1996 BRLP-42 a molecule with chaperone inducing activity, London, Feb. 12, Scientific Organizer
- 1996 Temperature and Gene expression, Society for Experimental Biology, Lancaster, UK, March 24-29,  
Chairperson
- 1997 Different evolutionary properties of the highly conserved hsp70 gene in the Antarctic fish  
*Chionodraco hamatus* and *Notothenia rossii*. Society for Experimental Biology, Canterbury, UK, April  
7-8, 1997, Invited Speaker
- 1997 Membrane fluid state and  $\Delta^9$ -desaturase expression in *Histoplasma capsulatum*.  
American Society for Microbiology, Miami, FL, May 4-9, Invited speaker
- 1997 Stress and lipid membrane; Stress of Life, Budapest, July 1-5, Plenary Lecture
- 1997 Expression of hsp70 gene in Antarctic Fish; ESF Network Fishes of the Antarctic Ocean, Final  
Meeting; Pontignano (Siena), Italy, May 22-25, 1997
- 1997 Cold Adaptation in Antarctic Fish: Evolutionary Adaptation of hsp70 gene; Biology of tropical fishes,  
Manaus, Amazonia, Brazil, October 6-9; invited speaker
- 1998 40<sup>th</sup> NIBB Conference; Sensing, Signal Transduction and Gene Expression. Okazaki, Japan, March  
9-11, 1998; Chaiman and Invited speaker
- 1998 Society for Experimental Biology, York, UK, March 23-27, 1998, Invited speaker
- 1998 1<sup>st</sup> National Program on AIDS, Ist Superiore di Sanità, Rome Junbe 22-26, 1998, Invited  
speaker
- 1998 Society for Experimental Biology, Thermotolerance, Thermoprotection and Stress Proteins,  
Edimburg, UK, March 23-25, 1999, Invited Speaker
- 1999 Host parasite relationships in establishing virulence; University of Guanajuato, Mexico, May 25-27,  
1999, Invited Speaker
- 1999 American Society for Microbiology, Chicago, IL, May 30-June 4, 1999, Convenor
- 1999 Progetto Nazionale Ricerca in Antartide Ancona, Invited Speaker
- 2000 Host parasite interactions in pathogenic fungi XIV ISHAM Buenos Aires, May 8-12, 2000, Invited  
Speaker
- 2000 British Biochemical Society, Harden/EMBO Conference Fatty acid desaturases: form function and  
future, Wye College, Kent, UK, July 30 - Aug 2, Invited Speaker
- 2001 Gordon Conference: Heat Stress in Plants, Ventura, CA, Jan 28-Feb 3, Invited Speaker
- 2001 Exploring African Plant Biodiversity for natural products  
Rome, April 9-11, 2001 Invited Speaker
- 2001 Molecular Biology of Pathogenic Fungi, Tel Aviv, May, 2001, Invited Speaker
- 2003 International Conference on Stress Responses in Biology and Medicine, Sept. 10-14,  
Quebec City, Canada
- 2004 Molecular Genetic Approaches to the Study of Human Pathogenic Fungi. Puebla, Mexico,  
March 23-25
- 2007 Beyond Global Warming, The World Academy of Art and Science School of Arts and Sciences,  
University of Pittsburgh, Feb. 28, Pittsburgh, PA, USA
- 2008 IV Int'l Workshop: Molecular Genetic Approaches to the Study of Human Pathogenic Fungi, San Luis  
Potosi, Mexico, May 19-23
- 2008 The missing role of the environment in Darwin's theory of Evolution, World General Assembly, World  
Academy of Art and Sciences, Hyderabad, India, Oct. 16-20

1977 University of Florida, Tampa, FL, USA  
 1980 University of Milan, Istitute of Botany  
 1981/1999 Washington University School of Medicine (every year)  
 1986 University of Palermo, Istitute of Genetics  
 1987 University of Panama, Dept. of Microbiology  
 1987 Istituto Sclavo, Siena  
 1987 University of Calabria, Arcavacata, Dept. of Cell Biology  
 1987 Istitute Pasteur, Paris  
 1988 University of Florence, Istitute of Genetics  
 1988 University of Rome, La Sapienza, School of Medicine, Dept. of Human Biopatology  
 1988 University of Bologna, Dept. of Genetics  
 1989 University of Rome, La Sapienza, School of Medicine, Dept. of Human Biopatology  
 1990 University of Palermo, Dept. Developmental Biology  
 1991 University of Rome La Sapienza, School of Medicine, Ist. of Parasitology  
 1992 University of Texas, Austin, Dept. of Microbiology  
 1992 Istituto di Medicina Sperimentale, CNR, Rome  
 1992 Instituto de Biofisica Carlos Chagas Filho, University of Rio de Janeiro  
 1992 BAYER, Wüppertal, Germany  
 1992 University of Mexico City  
 1992 University of Rome, La Sapienza, School of Medicine, Dept. of Biology & Patology  
 1992 Istituto di Ricerche di Biologia Molecolare (MERK), Pomezia (Roma)  
 1992 Int'l Center for Genetics & Biotechnology (UNIDO), Trieste  
 1992 Mallinckodt Inst. of Radiology, St.Louis  
 1993 University of Naples, Dept. of Physiology  
 1993 Lepetit Research Center, Milan  
 1993 University of Liverpool, School of Tropical Medicine  
 1993 University of Naples, I Medical School, Dept. of Biochemistry  
 1994 Istituto Ricerche Immunologiche, Siena  
 1994 Institute Pasteur, Paris (Dept. of Bacteriology and Mycology)  
 1994 Biol. Res. Center, Hungaria Acad. Sc., Szeged, Hungary  
 1994 Janssen Foundation, Bersee, Belgium  
 1995 University of Cinninati, Med. School, Cincinnati, OH, USA  
 1995 University of Parma, Med. School, Dept. of Microbiology  
 1995 University of Padoa, Dept. of Biology  
 1995 Biol. Res. Center, Hungarian Acad. Sc., Szeged, Hungary  
 1996 EMBL, Heidelberg  
 1997 University of Padoa, Faculty of Medicine  
 1998 University of Calabria, Arcavacata, Dept. of cell Biology, Faculty of Sciences  
 1998 University of Rome-La Sapienza, Dept. of Biochemistry, Faculty of Sciences  
 1998 National Institute of Basic Biology, Okazaki, Japan  
 1998 The University of Tokyo, Dept. Cell Biology, Japan  
 1999 University of Mexico City, Dept. of Mol. Evolution, Mexico  
 1999 Nat'l Center for Genetic Engineering and Biotechnology, Bangkok, Thailand  
 2000 Wye College, Kent, UK, British Biochemical Society, Harden/EMBO Conference  
 2003 University of Quebec, Quebec City, Canada  
 2004 National University of Mexico City, Mexico  
 2006 University of Liverpool, UK  
 2008 National University of Mexico City, Mexico

**Research Institutes Visited Abroad**

Nov.'74 - Aug.'79 Washington University, School of Medicine, Div. of Infectious Diseases, St. Louis, MO, USA  
 Oct. '81 - Jan. '82 Washington University, School of Medicine, Div. of Infectious Diseases, St. Louis, MO, USA  
 Oct. '84 - Feb. '85 Somali national University, Dept. of Microbiology, Mogadishu, Somalia  
 October 1985 University of St. Andrews, Gatty Marine Laboratory, St.Andrews, Scotland  
 Nov. '87 - Dec. '87 Eklund Biological Laboratory, Nat'l Science Foundation, McMurdo Station, Antarctica  
 1979-1988 One to two months a year at Washington University, School of Medicine, Div. of Infectious Diseases, St.Louis, USA  
 1989 - 2000 Associate Professor ar Washington University, Med. Scool, St.Louis, USA



Oct. '98 - Dec. '98      National Institute of Basic Biology, Okazaki, Japan

**Professional Societies**

- Member of the American Society for Microbiology (since 1986)
- Member of the organizing Committee of the International Cell Stress Society (1998 - )
- Member of the Italian Society of General Microbiology and Microbial Biotechnology (since 1984)
- Founder and Member of the Board of Trustee and Secretary of the Scientific Foundation "viamarconidieci", Naples, Italy (since 1988)
- Founder and Member of the Board of Trustee of the American Scientific Foundation "Molecular Genetics", St.Louis, USA (1990)
- Member of the Italian Society of Medical Mycology (since 1992)
- Fellow and member of the Board of Trustees of the World Academy of Art and Sciences, Pittsburgh, USA