

CURRICULUM VITÆ

May 25, 1945, Firenze

EDUCATION

1968 University of Pisa, Degree in Biology

1971 Scuola Normale Superiore di Pisa, PhD in Neurophysiology

PROFESSIONAL CAREER

1972-1980 Assistant in Physiology at the University of Pisa

1981-1990 Associate Professor in Physiology at the University of Pisa

1990-1993 Full Professor in Physiology at the University of Tuscia, Viterbo

1993-present Full Professor in Physiology at the University of Pisa

Since 2000, Responsible of the Erasmus Mobility in Biology

2005-2011 Member of the Directory Board of the Italian Society of Physiology

2005-2012 Responsible of the Unit of General Physiology at the Department of Biology

2010-2012 President of the Scientific Committee 05 at the University of Pisa

2012-2015 Member of the Council of the National Boarding of Physiologists

TEACHING EXPERIENCE

General Physiology, Comparative Physiology, Neurobiology, Neurophysiology

Since 2012, Member of the Committee of the PhD School of the Tuscany Region in "Molecular Medicine"

Until 2012, Member of the Committee of the PhD School in "Neurosciences and Endocrine-Metabolic Sciences"

Until 2012, Member of the Directory Board of the PhD School in "Biological and Molecular Sciences"

2001-2002 Incentive of the Faculty of Sciences of the Pisa University for teaching activity

2002-2003 Incentive of the Pisa University for teaching activity

2005-2006 Responsible of a Master of the Tuscany Region for the formation of experts in preventive health activities

RESEARCH EXPERIENCE

1986-1987 Italian Research Council (CNR) fellow, Department of Psychology, University of Maryland at College Park

1988-1989 CNR fellow, Department of Neurosciences, University of New York at Stony Brook

1979-1980 Swiss National Foundation senior fellow, Brain Research Institute, University of Zurich

EDITORIAL ROLE

Editorial Board: Visual Neuroscience(1989-1992)

Associate Editor: Visual Neuroscience (1993-1996)

RESEARCH ACTIVITY

140 papers on refereed international journals

RESEARCH INTEREST

1. Neural-vascular interactions
2. Mechanisms of angiogenesis including the study of the role of miRNA
3. Tumor angiogenesis
4. Neuropeptides in the brain: expression, localization and function
5. Pharmacological and functional characterization of neuropeptide receptors

FUNDING SUPPORTS AND PROJECT RESPONSABILITIES

2012-2014 Tuscany Region project entitled "Nuove opportunità contro la vascolarizzazione anomala: strategie antiangiogeniche - NOVASA", assignment of a biennial research contract

2010-2014 Fondazione Cassa di Risparmio of La Spezia project entitled "Anxiety and depression as risk factors in ischemic coronary diseases", responsible of an Operative Unit

2011-2013 Programma Nazionale di Ricerche in Antartide project entitled "Early markers of cardiovascular diseases in extreme environments: a functional evaluation of endothelial progenitor cells (EPCs)", responsible of an Operative Unit

2011-2012 Ente Cassa di Risparmio di Firenze project entitled: "From discovery of propranolol efficacy in retinopathy of prematurity to an effective therapy against tumor angiogenesis ?", responsible of an Operative Unit

2010-2012 Fondazione Cassa di Risparmi of Livorno project entitled: "Evaluation of visual function in diabetic patients treated with anti-hypertensive drugs", project coordinator

2010-2011 Fondazione Cassa di Risparmio of Lucca project entitled: "Anxiety and depression as risk factors in coronary ischemic disease: screening, baseline evaluation and follow-up", responsible of an Operative Unit

2009-2012 Azienda Ospedaliero-Universitaria Meyer of Florence, project entitled: "Beta-adrenoreceptor blockade as treatment of retinopathy of prematurity: a study in a murine model of oxygen induced retinopathy", project coordinator

2009-2010 Fondazione Cassa di Risparmi of Livorno project entitled: "Evaluation of visual function in diabetic retinopathy: a preventive study", project coordinator

2007-2009 Fondazione Cassa di Risparmio of La Spezia, project entitled: "Molecular markers of Alzheimer's disease in a population of Val di Magra", responsible of an Operative Unit

2006-2007, INTERREG III funded by the Tuscany Region and the European Community, project entitled: "Preventive identification of potential organismic factors which cause important environmental alterations in the coast following the increased ship traffic in the Liguria-Tirreno Area", responsible of an Operative Unit

2005-2007 MIUR PRIN project entitled: "Functional aspects of the peptide somatostatin in the retina: the therapeutic problem of proliferative retinopathies", national coordinator

2005-2007, MIUR Internationalization (Art. 23) project entitled: "Anticonvulsant role of the peptide somatostatin in temporal lobe epilepsy: a functional and molecular study", coordinator

2004-2007 Fondazione Cassa di Risparmio di La Spezia project entitled: "Early diagnosis of Alzheimer's disease in a population of Lunigiana", responsible of an Operative Unit

2002-2005 MIUR FISR (Neurobiotechnology) project entitled: "Somatostatin and its receptors: expression, functional and molecular characterization in nervous structures", coordinator

2000-2003 MIUR Cluster Biomedicine 04-21 project entitled: "Application of advanced technologies for confocal microscopy investigation and electronic image elaboration", coordinator

2000-2002 MIUR COFIN project entitled: "Morpho-functional properties of developing cells in the nervous system and role of epigenetic factors", national coordinator

1999-2003 European Community Ct.QLG3-1999-00908 project entitled: "Somatostatin and somatostatin receptors in brain function and dysfunction", responsible of an Operative Unit

1999-2001 Cooperation Italy-Greece (117/2348) project entitled: "Study of the interactions between neuropeptide and neurotransmitter systems in the brain striatum: clinical implications", responsible of an Operative Unit

1998-2000 MIUR COFIN project entitled: "Morpho-functional properties of developing or regenerating cells in the nervous system", national coordinator

1994-1997 European Community Ct.BMH1-CT94-1378 project entitled: "Basic approaches to restore neuronal function", European coordinator

1996-1998 MIUR COFIN project entitled: "Role of neuropeptides in development of the Central Nervous System", responsible of an Operative Unit

1994-1996 MIUR COFIN project entitled: "Mechanisms of regulation of cellular function", responsible of an Operative Unit

1992-1993 project Italy-USA funded by the CNR, coordinator

1989-1994 Section of Biotechnology of the CNR, quinquennial project entitled: "Computer-assisted image analysis", coordinator

1989-1991 triennial project Italy-USA funded by the CNR, national coordinator

1985-1990 Farmitalia-C.Erba, project responsible

1984-1990 responsible of annual projects funded by the CNR

1982-1994 Italian Board of Education, MURST 40%, responsible of biennial projects

1981-1984 responsible of a triennial project Italy–Switzerland funded by the CNR

MEETING ORGANIZATION

2012, May 30-June 2, Italian Society of Physiology, University of Genova and University of Pisa, "6th Annual Meeting of Young Researchers in Physiology" Sestri Levante, Genova

2011, June 8-10, Italian Society of Physiology, University of Genova and University of Pisa, "Annual Meeting of Young Researchers in Physiology 2011" Sestri Levante, Genova

2010, June 16-19, Italian Society of Physiology and Pisa University, "Annual Meeting of Young Researchers in Physiology 2010" Santa Croce in Fossabanda, Pisa

2010, June 19, Italian Society of Physiology and Pisa University, "Symposium in honour of Moruzzi's centennial"

2009, June 22-25, Italian Society of Physiology and Pisa University, "National Meeting of Graduate Students in Physiology", Santa Croce in Fossabanda, Pisa

2004, October 4-7, University of Pisa, Annual Meeting of the Italian Society of Physiology

2001 International Symposium in Pisa: "Somatostatin and somatostatin receptors in brain function and dysfunction"

1996 International Symposium in Tenerife: "Basic Approaches to Restore Neuronal Function II"

1995 International Symposium in Crete: "Basic Approaches to Restore Neuronal Function I"

1994 International Symposium in Viterbo: " Basic approaches for the study of mental diseases"

1991, May 26-June 6, NATO Advanced Study Institute at the University of Tuscia: "Maturation and Aging in the Central Nervous System"

PUBBLICAZIONI 2007-2012

MATTEO MONAMI, LUCA FILIPPI, ANDREA UUNGAR, FEDERICA SGRILLI, ALESSANDRO ANTENORE, ILARIA DICEMBRINI, PAOLA BAGNOLI, NICCOLO' MARCHIONNI, CARLO MARIA ROTELLA, MANNUCCI E. Further data on beta blockers and cancer: observational study and meta-analysis of randomized clinical trials CURRENT MEDICAL RESEARCH & OPINION, submitted

MASSIMO DAL MONTE, GIANCARLO LA MARCA, BENEDETTA ISACCHI, LUCA FILIPPI, BAGNOLI P Eye drop propranolol administration promotes the recovery of oxygen induced retinopathy in mice EXPERIMENTAL EYE RESEARCH, submitted

DAVIDE MARTINI, MASSIMO DAL MONTE, LUCA FILIPPI, BAGNOLI P. Novel role of beta3-adrenoreceptors (β_3 -ARs) in angiogenesis-associated events in mouse retinal explants INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, submitted

GIACOMO CAVALLARO, LUCA FILIPPI, PAOLA BAGNOLI, GIANCARLO LA MARCA, G CRISTOFORI, G PADRINI, G ARAIMO, M FUMAGALLI, M GROppo, MASSIMO DAL MONTE, S OSNAGHI, PATRIZIO FIORINI, MOSCA F. (2012) The pathophysiology of retinopathy of prematurity: update of previous and recent knowledge DOCUMENTA OPHTHALMOLOGICA, in press

MASSIMO DAL MONTE, DAVIDE MARTINI, VALENTINA LATINA, BARBARA PAVAN, LUCA FILIPPI, BAGNOLI P (2012) Beta-adrenoreceptor (β -AR) agonism influences retinal responses to hypoxia in a mouse model of retinopathy of prematurity INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, vol. 53, p. 2181-2192.

MASSIMO DAL MONTE, VALENTINA LATINA, ELENA CUPISTI, BAGNOLI P. (2012) Protective role of somatostatin receptor 2 against retinal degeneration in response to hypoxia NAUNYN-SCHMIEDEBERG'S ARCHIVES OF PHARMACOLOGY, vol. 385, p. 481-494.

SARA MEI, MAURIZIO CAMMALLERI, DANILO AZARA, GIOVANNI CASINI, PAOLA BAGNOLI, DAL MONTE M (2012). Mechanisms underlying somatostatin receptor 2 downregulation of vascular endothelial growth factor expression in response to hypoxia in mouse retinal explants JOURNAL OF PATHOLOGY, 226:519-533.

DAVIDE MARTINI, MASSIMO DAL MONTE, CHIARA RISTORI, ELENA CUPISTI, SARA MEI, PATRIZIO, FIORINI, LUCA FILIPPI, BAGNOLI P (2011). Antiangiogenic Effects of Beta2-Adrenergic Receptor Blockade in a Mouse Model of Oxygen-Induced Retinopathy. JOURNAL OF NEUROCHEMISTRY, vol. 119, p. 1317-1329

MASSIMO DAL MONTE, DAVIDE MARTINI, CHIARA RISTORI, DANILO AZARA, CHIARA ARMANI, ALBERTO BALBARINI, BAGNOLI P (2011). Hypoxia effects on proangiogenic factors in human umbilical vein endothelial cells: functional role of the peptide somatostatin. NAUNYN-SCHMIEDEBERG'S ARCHIVES OF PHARMACOLOGY, vol. 383, p. 593-612.

CHIARA RISTORI, LUCA FILIPPI, MASSIMO DAL MONTE, DAVIDE MARTINI, MAURIZIO CAMMALLERI, PINA FORTUNATO, GIANCARLO LA MARCA, PATRIZIO FIORINI, BAGNOLI P (2011). Role of the Adrenergic System in a Mouse Model of Oxygen-

Induced Retinopathy: Antiangiogenic Effects of Beta-Adrenoreceptor Blockade. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, vol. 52, p. 155-170.

MAURIZIO CAMMALLERI, DAVIDE MARTINI, CHIARA RISTORI, ANNA MARIA TIMPERIO, BAGNOLI P (2011). Vascular endothelial growth factor up-regulation in the mouse hippocampus and its role in the control of epileptiform activity. EUROPEAN JOURNAL OF NEUROSCIENCE, vol. 33, p. 482-498.

MASSIMO DAL MONTE, CHIARA RISTORI, CATHERINE VIDEAU, CATHERINE LOUDES, DAVIDE MARTINI, GIOVANNI CASINI, JACQUES EPELBAUM, BAGNOLI P (2010). Expression, Localization and Functional Coupling of the Somatostatin Receptor Subtype 2 in a Mouse Model of Oxygen-Induced Retinopathy. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, vol. 51, p. 1848-1856.

FILIPPI L, CAVALLARO G, FIORINI P, DANIOTTI M, BENEDETTI V, CRISTOFORI G, ARAIMO G, RAMENGGHI L, LA TORRE A, FORTUNATO P, POLLAZZI L, LA MARCA G, MALVAGIA S, BAGNOLI P, RISTORI C, DAL MONTE M, BILIA A.R, ISACCHI B, TINELLI F, CIONI G, DONZELLI G, OSNAGHI S, MOSCA F (2010). Study protocol: safety and efficacy of propranolol in newborns with Retinopathy of Prematurity (PROP-ROP). BMC PEDIATRICS, vol. 10, p. 83-94.

MASSIMO DAL MONTE, CHIARA RISTORI, MAURIZIO CAMMALLERI, BAGNOLI P. (2009). Somatostatin analogs affect retinal angiogenesis in a mouse model of oxygen-induced retinopathy: involvement of the somatostatin receptor subtype 2. INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE, vol. 50, p. 3596-3606.

MAURIZIO CAMMALLERI, DAVIDE MARTINI, ANNA MARIA TIMPERIO, BAGNOLI P (2009). Functional effects of somatostatin receptor 1 activation on synaptic transmission in the mouse hippocampus. JOURNAL OF NEUROCHEMISTRY, vol. 111, p. 1466-1477-1477.

CETANI F, LEMMI M, CERVIA D, BORSARI S, CIANFEROTTI L, PARDI E, AMBROGINI E, BANTI C, BROWN EM, BAGNOLI P, PINCHERA A, MARCOCCI C (2009). Identification and functional characterization of unreported loss-of-function mutations of the calcium-sensing receptor in italian kindreds with familial hypocalciuric hypercalcemia. EUROPEAN JOURNAL OF ENDOCRINOLOGY, vol. 160, p. 481-489

DAVIDE CERVIA, CHIARA RISTORI, GRAZIANO DI GIUSEPPE, DAVIDE MARTINI, GABRIELLA GAMBELLINI, PAOLA BAGNOLI, DINI F (2009). The secondary metabolite euplotin C induces apoptosis-like death in the marine ciliated protist Euplotes vannus. JOURNAL OF EUKARYOTIC MICROBIOLOGY, vol. 56, p. 263-269.

CHIARA RISTORI, MAURIZIO CAMMALLERI, DAVIDE MARTINI, BARBARA PAVAN, YANGQIANG LIU, GIOVANNI CASINI, MASSIMO DAL MONTE, BAGNOLI P. (2008). Involvement of the cAMP-dependent pathway in the reduction of epileptiform bursting caused by somatostatin in the mouse hippocampus. NAUNYN-SCHMIEDEBERG'S ARCHIVES OF PHARMACOLOGY. vol. 378, 563-577.

DAVIDE CERVIA, MARTINI D., RISTORI C., CATALANI E., TIMPERIO A. M., BAGNOLI P., CASINI G. (2008). Modulation of the neuronal response to ischemia by somatostatin analogues in wild-type and knock-out mouse retinas. JOURNAL OF NEUROCHEMISTRY. vol. 106, 2224-2235.

TRIELLI F., CERVIA D., DI GIUSEPPE G., RISTORI C., KRUPPELD T., BURLANDO B., GUELLA G., VIARENGO A., BAGNOLI P., DELMONTE CORRADO M. U., DINI F. (2008). Action mechanisms of the secondary metabolite euplotin C: signaling and functional role in Euplotes. *JOURNAL OF EUKARYOTIC MICROBIOLOGY*. vol. 55, 365-373.

CHIARA RISTORI, MAURIZIO CAMMALLERI, DAVIDE MARTINI, BARBARA PAVAN, GIOVANNI CASINI, DAVIDE CERVIA, BAGNOLI P. (2008). The cyclooxygenase-2/prostaglandin E2 pathway is involved in the somatostatin-induced decrease of epileptiform bursting in the mouse hippocampus. *NEUROPHARMACOLOGY*. vol. 54, pp. 874-884.

DAVIDE CERVIA, GIOVANNI CASINI, BAGNOLI P. (2008). Physiology and pathology of somatostatin in the mammalian retina: a current view. *MOLECULAR AND CELLULAR ENDOCRINOLOGY*. vol. 286, pp. 112-122.

ELISABETTA CATALANI, DAVIDE CERVIA, DAVIDE MARTINI, PAOLA BAGNOLI, ELISA SIMONETTI, ANNA MARIA TIMPERIO, CASINI G. (2007). Ischemia differentially affects neuronal cells in retinas with genetic alterations of somatostatin receptor expression. *EUROPEAN JOURNAL OF NEUROSCIENCE*. vol. 25, pp. 1447-1459.

DAVIDE CERVIA, BAGNOLI P. (2007). An update on somatostatin receptor signalling in native systems and new insights on their pathophysiology. *PHARMACOLOGY & THERAPEUTICS*. vol. 116, pp. 322-341.

MASSIMO DAL MONTE, MAURIZIO CAMMALLERI, DAVIDE MARTINI, GIOVANNI CASINI, BAGNOLI P. (2007). Anti-angiogenic role of somatostatin receptor 2 in a model of hypoxia-induced neovascularization in the retina: results from transgenic mice. *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*. vol. 48, pp. 3480-3489.

CHIARA ARMANI, ELISABETTA CATALANI, ALBERTO BALBARINI, PAOLA BAGNOLI, CERVIA D. (2007). Expression, pharmacology, and functional role of somatostatin receptor subtypes 1 and 2 in human macrophages. *JOURNAL OF LEUKOCYTE BIOLOGY*. vol. 81, pp. 845-855.

K FRAGIOUDAKI, ELIAS KOUVELAS, ROSELLA CRISTIANI R, P GIOMPRES, PAOLA BAGNOLI, MITSACOS A. (2007). Expression of amino acid receptors and neural peptides in the weaver mouse brain. *BRAIN RESEARCH*. vol. 1140, pp. 132-152.

DAVIDE CERVIA, MERCEDES GARCIA-GIL, ELISA SIMONETTI, GRAZIANO DI GIUSEPPE, GRAZIANO GUELLA, PAOLA BAGNOLI, DINI F. (2007). Molecular mechanisms of euplotin C-induced apoptosis: involvement of mitochondrial dysfunction, oxidative stress and proteases. *APOPTOSIS*. vol. 12, pp. 1349-1363.