

**INFORMAZIONI PERSONALI**

Nome MAZZANTI LAURA  
Indirizzo  
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Nazionalità Italiana  
Data di nascita 29/09/1948

**ESPERIENZA LAVORATIVA**

- Dal 1983 al 2005 Professore Associato di Biochimica - Facoltà di Medicina e Chirurgia - Università di Ancona e ruolo di docente presso il Diploma Universitario di Infermiere e varie Scuole di Specializzazione.
- Dal 2005 ad oggi Professore Ordinario di Biochimica - Facoltà di Medicina e Chirurgia – Università Politecnica delle Marche.  
Membro Fondatore e Presidente fino al 2016 del Centro Interdipartimentale di Educazione Alimentare e Promozione della Salute  
Dal 2014 al 31/10/2018 Vice Direttore del Dipartimento di Scienze Cliniche Specialistiche ed Odontostomatologiche.  
Direttore della Scuola di Specializzazione in Scienza dell'Alimentazione dal 2009 al 2013, per medici, dal 2009 al 2014 per biologi. Dal 2010 al 31/10/2018 Coordinatore della Scuola di Specializzazione in Scienza dell'Alimentazione, federata ed aggregata con le Università di Modena e Bologna.  
Socia Fondatrice e già Presidente dello Spinoff accademico BIOMEDFOOD

**ISTRUZIONE E FORMAZIONE**

- Luglio 1973 Laurea in Scienze Biologiche Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università degli Studi di Bologna
- Giugno-Ott.1974 Visiting fellow presso il Department of Biological Sciences della Warwick University of Coventry , U.K. ( Supervisor Prof. Griffits)
- Luglio 1975 Specializzazione in "Analisi chimico-cliniche e microbiologiche" Università di Camerino a pieni voti con lode
- Luglio-Ott.1975 Visiting fellow presso il Chelsea College of London, U.K. Department of Biological Membranes (Supervisor Prof. D. Chapman)

## CAPACITÀ E COMPETENZE

### PERSONALI

MADRELINGUA	ITALIANO
ALTRE LINGUA	INGLESE
• Capacità di lettura	ECCELLENTE
• Capacità di scrittura	ECCELLENTE
• Capacità di espressione orale	ECCELLENTE
COLLABORAZIONI	
1977	Department of Bioenergetics dell'Accademia di Educazione Fisica di Danzica (Polonia).
1990	Department of Biochemistry dell'Università della Virginia a Norfolk 1991 Dipartimento di Fisica dell'Università dell'Illinois ad Urbana (USA); Department of Neurosciences di Washington D.C.
1991	Department of Physiology Accademia Cecoslovacca delle Scienze Praga; 1991 Department of Biochemistry, Toulouse, France
Dal 1995 ad oggi	Department of Biochemistry, University of Windsor, Canada.
Dal 2000 ad oggi	Department of Physiology, Charles University, Praga
Attività scientifica	<ol style="list-style-type: none"><li>1) Interazioni lipidi proteine e ruolo dei lipidi nella organizzazione strutturale e funzionale delle biomembrane.</li><li>2) Effetto degli anestetici generali su membrane lipidiche modello, in membrane biologiche, in cellule intatte</li><li>3) Modificazioni dello stato chimico-fisico e del trasporto di membrane di cellule circolanti o in coltura (eritrociti, piastrine, cellule trofoblastiche, endoteliali) in differenti condizioni fisiologiche (invecchiamento, gravidanza) e patologiche (distrofia muscolare, ipertensione, diabete)</li><li>4) Modificazioni della produzione di radicali liberi e dello stato perossidativo in lipoproteine e cellule circolanti in diversi condizioni dismetaboliche (obesità, anoressia e diabete)</li><li>5) Metabolismo dell'ossido nitrico, del perossinitrito, caratterizzazione della Nitrico sintasi e del trasporto della L-arginina in piastrine di soggetti diabetici ed ipertesi, in cellule endoteliali ed astrocitarie in coltura con lipoproteine di soggetti di controllo in diverse fasce d'età e di soggetti affetti da patologie età correlate quali diabetici e Alzheimer.</li><li>6) Studio di alimenti funzionali, brevettaggio e sperimentazione di oli fortificati.</li><li>7) Sperimentazione di principi nutritivi in vivo ed in vitro.</li></ol>
PROGETTI DI RICERCA	
1993-1995	CNR: "Modificazioni della Na+/K+-ATPasi di placenta umana in corso di patologia ipertensiva e diabetica".
1994-1995	Fondazione Piera, Pietro e Giovanni Ferrero "Modificazioni delle membrane delle cellule circolanti in relazione al diabete mellito e all'invecchiamento".
1998	Fondazione Cassa di Risparmio di lesi "Diabete gestazionale e produzione piastrinica di perossinitrito"
1999	Responsabile di Unità Operativa MURST "Fattori genetici coinvolti nell'invecchiamento e nella longevità umana" Fondazione Cariverona dal titolo "Piastrine e malattia di Alzheimer: studi biochimici di eventuali markers precoci".

2000	Fondazione Cassa di Risparmio di Iesi dal titolo "Malattia di Alzheimer e perossinitrito: studio degli effetti prodotti dalle VLDL ottenute da pazienti su cellule neuronali in coltura".
2004	Fondazione Cav. Del Lavoro Mario Magnetto dal titolo: "Monossido di azoto ed ictus: ricerca delle basi molecolari ed ipotesi di predittività"
2007	Responsabile di Unità Operativa MURST "Monossido di azoto, specie reattive all'ossigeno (ROS) e all'azoto (RNS): markers di ipertensione gestazionale e preclampsia"

ALLEGATI      **508** sono i prodotti di ricerca al suo attivo

*Io sottoscritta MAZZANTI LAURA dichiaro sotto la mia responsabilità ai sensi dell'art. 76 del D.P.R. 445 del 28/12/2000 che quanto contenuto nel predetto curriculum corrisponde a verità.  
Ai sensi del D.L.gs 196/2003 autorizzo il trattamento dei dati personali per le esigenze di selezione.*

Ancona lì, 04/12/2018

## ELENCO PRODOTTI DELLA RICERCA

- 1) G. Lenaz, E. Bertoli, G. Curatola, L. Mazzanti, A. Bigi. Lipid protein interactions in mitochondria. Spin and Fluorescence probe studies on the effect of n-Alkanols on phospholipid vesicles and mitochondrial membranes. *Arch. Biochem. Biophys.* 172, 278-288, 1976
- 2) G. Lenaz, G. Curatola, L. Mazzanti, G. Parenti-Castelli, E. Bertoli. Effects of general anesthetics on lipid protein interactions and ATPase activity in mitochondria. *Biochem. Pharmacol.* 27, 2835-2844, 1978
- 3) G. Lenaz, G. Curatola, L. Mazzanti, G. Parenti-Castelli. Biophysical studies on agents affecting the state of membrane lipids: biochemical and pharmacological implications. *Mol. Cell. Biochem.* 22 (1), 3-32, 1978
- 4) G. Curatola, L. Mazzanti, E. Bertoli, G. Lenaz. The action of general anesthetics on lipid protein interactions. *Bull. Mol. Biol. Med.* 3, 123s-135s, 1978
- 5) G. Lenaz, G. Curatola, L. Mazzanti, E. Bertoli, A. Pastuszko. Spin label studies on the effect of anesthetics in synaptic membranes. *J. Neurochem.* 32, 1689-1695, 1979
- 6) L. Mazzanti, G. Curatola, G. Zolese, E. Bertoli, G. Lenaz. Lipid protein interactions in mitochondria. VIII - Effect of general anesthetics on the mobility of spin labels in lipid vesicles and mitochondrial membranes. *J. Bioenerg. Biomem.* 11, 17-32, 1979
- 7) G. Curatola, L. Mazzanti, G. Lenaz, A. Pastuszko. General anesthetics inhibit erythrocyte acetyl-cholinesterase only when membrane-bound. *Bull. Mol. Biol. Med.* 4, 139-146, 1979
- 8) A. Pastuszko, G. Curatola, L. Mazzanti, G. Lenaz. Effect of general anesthetics on the kinetics of synaptosomal (Na<sup>+</sup>/K<sup>+</sup>-ATPase). *Bull. Mol. Biol. Med.* 4, 225-231, 1979
- 9) G. Bruscalupi, G. Curatola, G. Lenaz, S. Leoni, M.T. Mangiantini, L. Mazzanti, S. Spagnuolo, A. Trentalance. Plasma membrane changes associated with rat liver regeneration. *Biochim. Biophys. Acta* 597, 263-273, 1980
- 10) R. Dellantonio, M. Capriotti, F. Angeleri, G. Curatola, L. Mazzanti, E. Bertoli, G. Lenaz. Duchenne muscular dystrophy. Morphological study of erythrocytes after treatment with L-lysophosphati-dylcholine in dystrophic patients and in the carrier state. *Acta Neurol. Bel.* 81, 193-198, 1981
- 11) G. Lenaz, G. Curatola, L. Mazzanti, G. Zolese, G. Ferretti. Electron spin resonance studies of the effects of lipids on the environment of proteins in mitochondrial membrane. *Arch. Biochem. Biophys.* 223, 197-199, 1983
- 12) G. Curatola, L. Mazzanti, G. Ferretti, R. Donato. S-100 protein induced changes in the physical state of synaptosomal particulate fractions as monitored by spin labels. *Arch. Biochem. Biophys.* 240, 435-445, 1985
- 13) L. Mazzanti, A. Pastuszko, G. Lenaz. Effects of ketamine anesthesia on rat brain membranes: fluidity changes and kinetics of acetylcholinesterase. *Biochim. Biophys. Acta* 861, 105-110, 1986
- 14) A.L. Tranquilli, A. Ancona, S. Brandi, L. Mazzanti, E. Bertoli, I. Testa, R.A. Rabini, C. Romanini. Intraerythrocytary sodium in pregnancy-induced hypertension. A longitudinal study throughout pregnancy, puerperium and neonatal aspects. *Clin. Exp. Hypert.* 6B, 2, 327-336, 1987
- 15) A.L. Tranquilli, L. Mazzanti, A. Ancona, S. Brandi, E. Bertoli, C. Romanini. Inhibition of Na<sup>+</sup>/K<sup>+</sup>-ATPase activity in maternal and neonatal erythrocytary ghosts in pregnancy induced hypertension. *Clin. Exp. Hypert.* 6B, 2, 321-326, 1987
- 16) A.L. Tranquilli, L. Mazzanti, E. Bertoli, C. Romanini. Sodium/potassium-adenosinetriphosphatase on erythrocyte ghosts from pregnant women and its relationship to pregnancy-induced hypertension. *Obstetrics and Gynecology* 71, 627-630, 1988
- 17) I. Testa, R.A. Rabini, A.L. Tranquilli, N. Cester, L. Mazzanti, E. Bertoli, C. Romanini, G. Danieli. Abnormal membrane cation transport in pregnancy induced hypertension. *Scand. J. Clin. Lab. Inv.* 48, 7-13, 1988

- 18) L. Mazzanti, N. Cester, E. Memè, H. Valensise, C. Romanini, P. Ferrara, F. Marinelli, G. Lenaz, E. Bertoli. Effect of general anesthesia on syncytiotrophoblast plasma membranes from human placenta. *Biochem. Intern.* 16, 1095-1101, 1988
- 19) I. Testa, R.A. Rabini, P. Fumelli, E. Bertoli, L. Mazzanti. Abnormal membrane fluidity and acetylcholinesterase activity in erythrocytes from insulin-dependent diabetic patients. *J. Clin. Endocrinol. Metab.* 67, 1129-1133, 1988
- 20) A.L. Tranquilli, S. Brandi, R.A. Rabini, I. Testa, H. Valensise, L. Mazzanti, C. Romanini. Altered cation transport in gestational hypertension. I. The significance of intracellular sodium . *Clin. Exp. Hyper.* B7, 11-22, 1988
- 21) A.L. Tranquilli, L. Mazzanti, N. Cester, A.M. Cugini, G. Benedetti, H. Valensise, C. Romanini. Effect of addition of magnesium on erythrocyte cation transport in mild gestational hypertension *Clin. Exper. Hyper. in Pregnancy* B7, 283-292, 1988
- 22) N. Cester, L. Mazzanti, G. Benedetti, A.M. Cugini, R.A. Rabini, A.L. Tranquilli, H. Valensise, C. Romanini. Pregnancy induced hypertension: observations on chemical-physical properties of syncytiotrophoblast plasma membranes from human placenta. *Clin. Exper. Hyper. in Pregnancy* B7, 57-66, 1988
- 23) A.L. Tranquilli, R.A. Rabini, A.M. Cugini, N. Cester, H. Valensise, C. Romanini, E. Bertoli, L. Mazzanti. Calcium and sodium transport in gestational hypertension. *Int. J. Cardiol.* 25, S53-S55, 1988
- 24) L. Mazzanti, R.A. Rabini, I. Testa, E. Bertoli. Modifications induced by diabetes on the physicochemical and functional properties of erythrocyte plasma membrane. *Europ. J. Clin. Invest.* 19, 84-89, 1989
- 25) G. Biagini, V. Vasi, A. Pugnaloni, H. Valensise, R. Rizzoli, M.C. Miccoli, L. Mazzanti, N. Cester, C. Romanini. Morphological development of the human placenta in normal and complicated gestation: a quantitative and ultrastructural study. *Gynecol. Obstet. Invest.* 28, 62-69, 1989
- 26) L. Mazzanti, G. Ferretti, N. Cester, C. Romanini, G. Biagini, P. Ferrara, F. Marinelli, G. Lenaz. Effect of Ca++ on structure and fluidity of microvillus membranes from human placenta. *Membrane Biochemistry*, vol. 7, 193-206, 1989
- 27) L. Mazzanti, A. Damadei, A. Pugnaloni, N. Cester, G. Benedetti, C. Romanini, G. Biagini. Molecular alterations observed in syncytiotrophoblast plasma membranes from hypertensive mothers. *Biochem. Int.* 19, 6, 1373-1380, 1989
- 28) L. Mazzanti, R.A. Rabini, E. Faloia, P. Fumelli, E. Bertoli, R. De Pirro. Altered cellular calcium and sodium transport in diabetes mellitus. *Diabetes* 39, 850-854, 1990
- 29) J. Popinigis, J. Antosiewicz, L. Mazzanti, E. Bertoli, G. Lenaz, A. Cambria. Direct oxidation of glutamate by mitochondria from porcine adrenal cortex. *Biochem. Int.* 21, 441-451, 1990
- 30) L. Mazzanti, R.A. Rabini, R. Staffolani, G. Benedetti, N. Cester, G. Lenaz. Modifications induced by general anesthetics on Na+/K+-ATPase obtained from human placenta. *Biochem. Biophys. Res. Commun.* 173, 1248-51, 1990
- 31) R.A. Rabini, I. Testa, A. Corvetta, M. Lombardello, M. Polenta, G. Danieli, L. Mazzanti. Cyclosporin effect on sodium and potassium transport across erythrocytes in rheumatoid arthritis. *Scand. J. Rheumatol.* 19, 356-362, 1990
- 32) C. Romanini, A.L. Tranquilli, H. Valensise, N. Cester, G. Benedetti, A.M. Cugini, L. Mazzanti. In vitro effect of magnesium on the Na/K-ATPase isolated from human placenta. *Magnesium Res.* 4, 41-43, 1991
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- 34) C. Romanini, A.L. Tranquilli, N. Cester, H. Valensise, A.M. Cugini, R.A. Rabini, L. Mazzanti. Modifications induced by gestational hypertension on platelet calcium transport. *Exp. Mol. Pathol.* 54, 122-128, 1991

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- 36) L. Mazzanti, R. Staffolani, R.A. Rabini, C. Romanini, A.M. Cugini, G. Benedetti, N. Cester, R. De Pirro, E. Faloia. Modifications induced by gestational diabetes mellitus on cellular membrane properties. *Scand.J. Clin. Lab. Invest.* 51 (5), 405-410, 1991
- 37) L. Mazzanti, G. Lenaz, F. Marinelli, S. Cinti. Structural and functional modifications induced by ketamine on rat synaptosomes *Neuropharmacol.* 30, 1343-49, 1991
- 38) L. Mazzanti, E. Faloia, R.A. Rabini, R. Staffolani, A. Kantar, R. Fiorini, B. Swoboda, R. De Pirro, E. Bertoli. Diabetes mellitus induces red blood cell plasma membrane alterations possibly affecting the aging process. *Clin. Biochem.* 25 (1), 1-46, 1992
- 39) N. Cester, B. Leocani, AM Cugini, G. Benedetti, AL Tranquilli, H. Valensise, L. Mazzanti, C. Romanini. Cation transport across cultured trophoblast membrane in preeclampsia. *Clin. Exper. Hypert.* B11, 59-69, 1992
- 40) L. Mazzanti, R.A. Rabini, R. Staffolani, C. Catassi, P.L.Giorgi. A study on children of patients with early atherosclerotic damage: a role for peroxidation? *Mol. Biol. Ather.* 108, 493-95, 1992
- 41) L. Mazzanti, R.A. Rabini, G. Biagini, A. Pugnaloni, R. De Pirro, E. Faloia, V. Mancini, C. Romanini, N. Cester. Changes in membrane fluidity and  $\text{Na}^+/\text{K}^+$ -ATPase activity during human trophoblast cell culture. *Eur. J. Biochem.*, 206, 881-885, 1992
- 42) L. Mazzanti, R. Staffolani, R.A. Rabini, A.M. Cugini, N. Cester, C. Romanini, E. Faloia, R. De Pirro. Modifications in platelet membrane transport functions in insulin-dependent diabetes mellitus and in gestational diabetes. *Biochim. Biophys. Acta* 1139, 65-69, 1992
- 43) G. Biagini, A. Pugnaloni, V. Carboni, L. Mazzanti, N. Cester, C. Romanini, E. Toschi, C. Castaldini. Placental villi-decidua interactions in normal and hypertensive pregnancies: a morphological quantitative study. *Gynecol. Obstet. Invest.* 34, 15-19, 1992
- 44) R.A. Rabini, P. Fumelli, R. Staffolani, L. Mazzanti, A. Pugnaloni, G. Biagini, E. Faloia, R. De Pirro. Effects of diabetes mellitus on structural and functional properties of erythrocyte membranes. *Memb. Biochem.* vol 10, 71-80, 1992
- 45) A.L.Tranquilli, M.L.Mariani, L. Mazzanti, H. Valensise, G.G.Garzetti, C. Romanini. Magnesium pyrrolidone carboxilate infusion reduces angiotensinII pressor response in pregnant women at risk for hypertension. *Am J. Obstet.* 167, 885-888, 1992
- 46) E. Amler, E. Bertoli, L. Mazzanti. Lifetime determination of low sample concentrations: new cuvette for highly accurate and sensitive fluorescence measurements. *Bioch. Intern.* 27 (5), 771-776, 1992
- 47) L. Mazzanti, R.A. Rabini, A.M. Cugini, G. Zolese. Effects of calcium on  $\text{Na}^+/\text{K}^+$ -ATPase isolated from human placenta. *Bioch. Intern.* 27 (5), 847-852, 1992
- 48) R.A. Rabini, P. Fumelli, R. Galassi, R. Giansanti, G. Ferretti, L. Mazzanti. Action of dietary polyunsaturated fatty acids on fluidity of erythrocyte and platelet membrane in NIDDM. *Ann. N.Y. Acad.Sci.* 683, 371-373, 1993
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- 50) R.A. Rabini, M. Polenta, R. Staffolani, M. Tocchini, R. Signore, I. Testa, L. Mazzanti. Effect of hydroxymethylglutaryl-CoA reductase inhibitors on the functional properties of erythrocyte membranes. *Exper. Mol. Pathol.* 59, 51-57, 1993
- 51) G.G. Garzetti, A.L. Tranquilli, A.M. Cugini, L. Mazzanti, N. Cester, C. Romanini. Altered lipid composition, increased lipid peroxidation and altered membrane fluidity of the membrane as evidence of platelet damage in preeclampsia. *Obstet. Gynecol.* 81, 337-340, 1993
- 52) G. Zolese, R. Staffolani, L. Mazzanti, E. Gratton. Effect of divalent cations on  $\text{Na}^+/\text{K}^+$ -ATPase obtained from human placenta.

- 53) S. Garbisa, M. Onisto, L. Mazzanti, A.L. Tranquilli, A. Pugnaloni, G. Biagini, N. Cester, C. Romanini. Cultured human trophoblast cells reproduce the initial events of placental biology. Clin. Exper. Obst.Gyn. XX (4), 207-215, 1993
- 54) L. Mazzanti, R. Magnanelli, A.L. Tranquilli, G.G. Garzetti, C. Romanini. Angiotensin II infusion affects fluorescence polarization and cholesterol content of platelet membranes. Hypert. in Pregn. 12(3), 319-324, 1993
- 55) N. Cester, R. Magnanelli, A.L. Tranquilli, R.A. Rabini, R. Galassi, A. Curatola, E. Salvolini, L. Mazzanti, C. Romanini. Effect of magnesium treatment on cellular membrane fluidity in gestational diabetes: preliminary results. Curr. Tox. Ther. 1(2), 103-111, 1993
- 56) R.A. Rabini, R. Galassi, R. Staffolani, M. Vasta, P. Fumelli, L. Mazzanti. Alterations in Na<sup>+</sup>/K<sup>+</sup>-ATPase activity and fluidity of erythrocyte membranes from relatives of Insulin dependent Diabetic Patients. Diabetes Research 22, 33-40, 1993
- 57) N. Cester, R. Staffolani, R.A. Rabini, R. Magnanelli, E. Salvolini, R. Galassi, L. Mazzanti, C. Romanini. Pregnancy Induced Hypertension:a role for peroxidation in microvillus plasma membranes. Mol. Cell. Biochem. 131, 151-155, 1994
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- 64) A.L. Tranquilli, L. Mazzanti, R. Staffolani, E. Salvolini, G.G. Garzetti, C. Romanini. Functional platelet modifications induced by oral magnesium supplementation in normotensive and hypertensive pregnancy J.Biol. Res. LXX, 249-256, 1994
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The human umbilical vein in normal, hypertensive and diabetic pregnancies: immunomorphological and ultrastructural evidence. Gynecol. Obstet. Invest. 39, 239-246, 1995

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