

Lello Zolla – Short biography

Prof. Lello Zolla is Full Professor of Molecular Biology and head of the Proteomics lab at the Tuscia University of Viterbo.

During 1986-1991 he was Director of the High School of Chemistry and Clinical Biochemistry at the University of Camerino. He has coordinated many CE and national research projects, organized many international meeting (Satellite FEBS....) and more than ten Mass Spectrometry and Proteomics courses as well.

He has participated in the founding and establishment of the Italian Proteomic Society and subsequently of the Italian Proteomic Association. He is in the Editorial Board of Journal of Proteomics, Current Proteomics and Open Proteomics. In 2009, he has been the Guest Editor of two Special Issues of Journal of Proteomics, entirely devoted to Blood Proteomics and Redox Proteomics, which included collaborations from 35 outstanding international experts from different laboratories. Recently he has been the Guest Editor of a special Issue of Blood Transfusion devoted to Blood Proteomics: applications relevant to Transfusion Medicine.

Prof. Zolla has co-authored more than 150 scientific publications. His research activities have been focused on the proteomics of the photosynthetic apparatus of different plants through the development of high-performance methods. Analytical techniques used include separation methods such as high-performance liquid chromatography, capillary electrophoresis, spectroscopic methods and, above all, mass spectrometry. The use of this method allowed elucidating the composition and supra-molecular organisation of photosynthetic the apparatus and the molecular mechanisms underlying plant physiological adaptations to abiotic stresses. Determination of involvement of oxygen radical species in protein degradation upon high light or UVB irradiation of plant or cyanobacteria has been also carried out. During the last two years Prof. Zolla's research group has focused its attention on the proteomic profile of red blood cells under canonical storage conditions, with the final aim to investigate the protein lesions which occur over storage. Accumulating evidences have been exploited to propose alternative storage protocols, such as anaerobic storage of erythrocyte concentrate, in order to pursuit a better storage rather than a longer one.

Projects coordinated

Project *CEE FLAIR* " Opportunity of transgenic food crops for the consumer and the industry in the Community "

Project *CEE AAIR* " The use of in vitro models for safety evaluation and detection of bound residues of veterinary drugs"

Project *Galileo*: "Isolated photosystem II complex as a possible biosensor for monitoring heavy metals"

Bilateral Project *Hungarian-Italian* Intergovernmental Programme intitolato: "Enviromental stress tolerance of forest trees and ecosystem"

CE Project *COST*: Relationships between carbon reduction cycle and energy dissipation processes under stress conditions"

CE Project *INCO*: "Molecular mechanisms for tolerance to stress factors affecting photosynthetic efficiency of trees".

COFIN *40%*: "Manipolazione dei sistemi di segnalazione redox per il miglioramento della resistenza delle piante ai patogeni"

Project *MURST* "Innovazioni di processo per la produzione di paste alimentari"

Project **Strategico Area 2.2** “*Agrobioecnologie/qualita', salubrita' e sicurezza della produzione alimentare. Metodi biotecnologici applicati alla tracciabilita' della qualita' e sicurezza degli alimenti*”

COFIN 2004 “*Nuove metodologie di analisi proteomica e metabolomica per lo studio della sicurezza nella filiera agro-alimentare*”

PRIN 2006 “*Metodiche innovative per la ricerca di allergeni vegetali ed animali, anche in tracce, negli alimenti*”.

Project **MIPAAF** “*Valorizzazione del patrimonio zootecnico italiano attraverso strumenti avanzati di genomica, trascrittomica e proteomica applicati alla selezione per la qualita' dei prodotti e il benessere animale GEN-ZOOT*”

Project **MIPAAF** “*“NUTRIGENOMICA MEDITERRANEA: dalla nutrizione molecolare alla valorizzazione dei prodotti tipici della dieta mediterranea -NUME*”

Project **Ministero Salute** “*ITALIAN PLATELET TECHNOLOGY ASSESSMENT STUDY*” (IPTAS)”

PRIN 2009 “*Metodiche innovative per la ricerca di allergeni vegetali ed animali, anche in tracce, negli alimenti*”.

Convenzione con Centro Nazionale Sangue (CNS): “*Conservazione del sangue in ambiente anaerobico, vantaggi e prospettive e Rilevazione e caratterizzazione molecolare dei contaminanti presenti nel FVIII plasma derivato e ricombinate, fattore XI e immunoglobuline*”.

Meeting Organized

1987 *Camerino* “*New high resolution liquid chromatography*”

1989 *Camerino* **Satellite FEBS**, on “*Biochemical and biophysical approaches to the study of copper proteins*”.

1991 *Viterbo* “*Application of Chromatography for clinical diagnostic*”

1994 *Viterbo* “*Capillary electrophoresis: instrumentation and applications*”

1996 *Viterbo* “*Effetti degli stress abiotici sulla fotosintesi: aspetti biochimici, molecolari ed ecofisiologici*”

1996 *Viterbo* “*Segnalazione chimica nelle cellule vegetali*”

1997 *Pieve Tesino* “*Fotosintesi e stress ambientali*”

1997 *Roma* “*Morfogenesi nelle piante superiori*”

1997 *Roma* “*Trasduzione del segnale nelle piante superiori*”

1998 *Viterbo* “*Stress abiotici: meccanismi di resistenza nelle piante*”

1999-2007 *Viterbo* “*Corso di Spectrometria di massa: teoria ed applicazioni*”

2004 *Verona* “*I Convegno Italian Proteomic Society*”

2005 *Viterbo* “*Proteomics and genomics*”

2008 *Bari* “*III Convegno Proteomica della ItPA*”

2009 *Viterbo* “*Plant Proteomics*”

2009 *Viterbo* “*Blood Proteomics*”

List of Publications since 2000

Dynamics of light-harvesting protein stoichiometry adjustment by light quality in chloroplasts

Zolla, Lello; Rinalducci, Sara; Timperio, Anna Maria. .

Recent Research Developments in Bioenergetics (2000)1(Pt. 1), 9-32.

Metal binding to *Pseudomonas aeruginosa* azurin: a kinetic investigation.

Naro F, Tordi MG, Giacometti GM, Tomei F, Timperio AM, Zolla L

Z Naturforsch [C].(2000), 55,347-54.

Resolution and identification of the protein components of the photosystem II antenna system of higher plants by reversed-phase liquid chromatography with electrospray-mass spectrometric detection.

Corradini D, Huber CG, Timperio AM, Zolla L.

J Chromatogr A. (2000), 886,111-21.

High performance liquid chromatography-electrospray mass spectrometry for the simultaneous resolution and identification of intrinsic thylakoid membrane proteins.

Zolla L, Timperio AM.

Proteins. (2000),41, 398-406.

High-performance liquid chromatography coupled on-line with electrospray ionization mass spectrometry for the simultaneous separation and identification of the *Synechocystis* PCC 6803 phycobilisome proteins.

Zolla L, Bianchetti M.

J Chromatogr A. (2001), 912, 269-79.

High-performance liquid chromatography-electrospray ionization mass spectrometry using monolithic capillary columns for proteomic studies.

Premstaller A, Oberacher H, Walcher W, Timperio AM, Zolla L, Chervet JP, Cavusoglu N, van Dorsselaer A, Huber CG.

Anal Chem. (2001), 73, 2390-6.

Isoforms of photosystem II antenna proteins in different plant species revealed by liquid chromatography-electrospray ionization mass spectrometry.

Huber CG, Timperio AM, Zolla L.

J Biol Chem. (2001), 276, 45755-61.

Monolithic capillary columns for liquid chromatography-electrospray ionization mass spectrometry in proteomic and genomic research.

Walcher W, Oberacher H, Troiani S, Holzl G, Oefner P, Zolla L, Huber CG.

J Chromatogr B Analyt Technol Biomed Life Sci. (2002),782, 111-25.

Functional studies of the *Synechocystis* phycobilisomes organization by high performance liquid chromatography on line with a mass spectrometer.

Zolla L, Bianchetti M, Rinalducci S.

Eur J Biochem. (2002), 269, 1534-42.

Proteomics of light-harvesting proteins in different plant species. Analysis and comparison by liquid chromatography-electrospray ionization mass spectrometry. Photosystem I.

Zolla L, Rinalducci S, Timperio AM, Huber CG.

Plant Physiol. (2002), 130,1938-50.

Involvement of active oxygen species in degradation of light-harvesting proteins under light stresses

Zolla L, Rinalducci S..

Biochemistry. (2002), 41, 14391-402.

Identification of a furazolidone metabolite responsible for the inhibition of amino oxidases

Timperio AM, Kuiper HA., Zolla L

Xenobiotica. (2003) 33, 153-67.

Proteomics of light-harvesting proteins in different plant species. Analysis and comparison by liquid chromatography-electrospray ionization mass spectrometry. Photosystem II.

Zolla L, Timperio AM, Walcher W, Huber CG.

Plant Physiol. (2003),131, 198-214.

Characterization of a variant of the spinach PSII type I light-harvesting protein using kinetically controlled digestion and RP-HPLC-ESI-MS.

Walcher W, Timperio AM, Zolla L, Huber CG.

Anal Chem. (2003), 75, 6775-80.

Polygalacturonase produced by Botrytis fabae as elicitor of two furanoacetylenic phytoalexins in Vicia faba pods.

Buzi, A.; Chilosi, G.; Timperio, A. M.; Zolla, L.; Rossall, S.; Magro, P.

Journal of Plant Pathology (2003), 85, 111-116.

Formation of radicals from singlet oxygen produced during photoinhibition of isolated light harvesting proteins of photosystem II.

Rinalducci S., Pedersen J. and Zolla L.

Biochim Biophys. Acta: bioenergetic (2004), 1608, 63-73

IF=

4.2

Separation and identification of the light harvesting proteins contained in grana and stroma thylakoid membrane fractions.

Timperio AM, Huber CG, Zolla L.

J Chromatogr A. 2004, 1040, 73-81.

IF=

3.35

Separation and identification of photosynthetic antenna membrane proteins by high-performance liquid chromatography electrospray ionization mass spectrometry.

Zolla L, Rinalducci S, Timperio AM, Huber CV
Eur J Mass Spectrom (Chichester, Eng). 2004, **10**, 321-33. Review.
IF= **1.15**

Intact mass measurements for unequivocal identification of hydrophobic photosynthetic photosystems I and II antenna proteins.

Zolla L, Rinalducci S, Timperio AM, Huber CG, Righetti PG
Electrophoresis. 2004, **25**, 1353-66
IF= **3.7**

Thylakoid membrane proteins: separation by HPLC and identification by accurate molecular mass determinations.

Lello Zolla,^{a*}, Anna Maria Timperio^a, Christian G. Huber.
Current Proteomics 2004 , **1**, 247-260.
IF= **4**

Multidimensional proteomic analysis of photosynthetic membrane proteins by liquid extraction-ultracentrifugation-liqui-chromathography-mass-spectrometry.

CG Huber W. Walcher, AM Timperio, S. Troiani, A. Porceddu, L. Zolla.
Proteomics 2004, **4** , 3909–3920
IF=
5.48

Fingerprinting of antenna proteins of photosystem I by reversed phase high performance liquid chromatography

Danilo Corradini, Sara Rinalducci, Anna Maria Timperio and Lello Zolla
Chromatographya (2005), **61**, 1-7
IF=
0.959

A proteomic approach for investigation of photosynthetic apparatus in plants

Corrado Ciambella, Peter Roepstorff, Eva Mari Aro, Lello Zolla
Proteomics 2005, **5**, 746-757
IF=
6.1

Two-dimensional mapping as a tool for classification of green coffee bean species

Maria Teresa Gil-Agusti, Natascia Campostrini, Lello Zolla, C. Ciambella, Carlo Invernizzi and
Pier Giorgio Righetti
Proteomics 2005, **5**, 710-718
IF=
6.1

Involvement of Active Oxygen Species in protein and oligonucleotide degradation induced by nitrofurans

Lello Zolla and Anna Maria Timperio

Biochim and Cell. Biochem 2005, **8**,166-175

IF=

2.87

Investigation of the lateral light-induced migration of PSII light harvesting proteins by nano-HPLC-ESI-MS.

Anna M. Timperio and Lello Zolla

J. Biol. Chem. 2005, **280**, 28858-66

IF=5.85

Formation of truncated proteins and high-molecular-mass aggregates upon short (soft) illumination of chlorophyll binding proteins.

Sara Rinalducci, Natascia Campostrini, Paolo Antonioli, Pier Giorgio Righetti, Peter Roespestorff and Lello Zolla

J. Proteom. Res 2005, **4**, 2327- 2337

IF=

6.9

Purification and characterization of phycocyanin from the blue-green alga aphanizomenon flos-aquae.

Serena Benedetti, Francesca Benvenuti, Sara Rinalducci, Sonia Francogli, Luca Giorgi, Mauro Micheloni, Lello Zolla , Giammaria d'Amici and Franco Canestrari.

J Chromam. B 2005, **833**, 12-18

IF=

2.39

Hydrazine and Hydrazide derivatives induce protein and oligonucleotide degradation by similar mechanism.

Anna Maria Timperio, Sara Rinalducci and Lello Zolla

Bioorg. Chemistry 2005, **33**, 459–469

IF=1.56

Effect of moderate UV-B irradiation on SYNECHOCYSTIS pcc 6803 biliproteins

Sara Rinalducci, Eva Hideg, Imre Vass and Lello Zolla

Biochim Biophys Res. Comm 2006, **341**, 1105–1112

IF =

3.0

Assay of Ochratoxin A in grape by High-Pressure Liquid Chromatography coupled on line with an ESI-mass spectrometry.

Anna Maria Timperio, Paolo Magro, G. Chilosi and Lello Zolla

Journal of Chromatography B, (2006) **832**, 127–133

IF =

2.56

Novel protein phosphorylation site identification in spinach stroma membranes by titanium dioxide microcolumns and tandem mass spectrometry

Sara Rinalducci, Martin R. Larsen, Shabaz Mohammed, Lello Zolla

J. Proteom. Res. (2006), **5**, 973 -982 IF =
6.9

Liquid Extraction-Ultracentrifugation-Liquid Chromatography-Mass Spectrometry: a potent tool for separation and identification of membrane proteins.

L. Zolla
Current in Analytical Chemistry 2006, **2**, 139-155
IF =

Preface

L.Zolla and P.G. Righetti
Journal of Chromatography B, 833 (2006) 1–2 IF =
2.56

Effect of tannic acid on *Lactobacillus hilgardii* analysed by a proteomic approach

A. Bossi, S. Rinalducci, L. Zolla, P. Antonioli, P.G. Righetti and G. Zapparoli
Journal of Applied Microbiology 2007, **102** , 787–795 IF =
2.2

Proteomic analysis of Photosystem I components from different plant species

Lello Zolla, Sara Rinalducci, Anna Maria Timperio
Proteomics 2007, **11**, 1866-76. IF
= 5.73

Capturing and amplifying impurities from purified recombinant monoclonal antibodies via Equalizer Beads: a proteomics study

Paolo Antonioli, Frédéric Fortis, Luc Guerrier, Sara Rinalducci, Lello Zolla,
Pier Giorgio Righetti and Egisto Boschetti
Proteomics 2007, **7**, 1624-33
IF = 5.73

Proteomic analysis of pancreatic endocrine tumour cell lines treated with the histone deacetylase inhibitor trichostatin A

Daniela Cecconi, Massimo Donadelli, Sara Rinalducci, Lello Zolla, Aldo Scarpa, Marta calmieri and Pier Giorgio Righetti
Proteomics 2007, **7**, 1644-53 IF
= 5.73

Characterization of the *lhcb1* multigene family in spinach

G. Rea, A. Distaso, L. Zolla, R. D'Ovidio, R. Gallerani and L.R. Ceci
Physiologia Plantarum 2007, **130**, 167-176 IF
= 2.2

Proteomic analysis of RBC membrane protein degradation during storage

G.M. D'Amici, S. Rinalducci and L. Zolla
J. Proteom. Res. 2007, **6**, 3242-3255. IF
= 5.1

Proteomics based dissection of stress-responsive pathways in plants

Mohd. Irfan, Qureshi; S Qadir and Lello Zolla
J Plant Physiology 2007, **164**, 1239—1260 IF =
1...

Chemically-enhanced liquid chromatography/tandem mass spectrometry determination of glutamic acid in the diffusion medium of retinal cells

Anna Maria Timperio, Marco Fagioni, Felice Grandinetti and Lello Zolla

Biomed. Chromat. 2007, 21, 1069–1076

IF =

1.6

Multiple strategies for O₂ transport: from simplicity to complexity

Ascenzi P., Bellelli A., Coletta M., Colosimo A., Falcioni G., Giacometti G.M.,

Ippoliti R., Zolla L. and Giardina B.

TBMB: IUBMB Life 2007, 59, 600-616

IF =

2.3

Proteomic, pigment composition and organization of thylakoid membranes in Fe-deficient spinach leaves.

Timperio A.M., De Amici G.M., Loreto F., Cengales and Zolla L.

J. Exper. Botany. (2007) 58, 3695-3710

IF

= 3.63

Proteomic analysis of a *Stenotrophomonas maltophilia* strain for bioremediation of Se-contaminated soils

Paolo Antonioli, Irene Chesini, Silvia Lampis, Giovanni Vallini, Sara Rinalducci, Lello Zolla and Pier Giorgio Righetti

Applied Environmental Microbiology (2007), 73, 6854-6863

IF

= 3.53

S-nitrosylation of peroxiredoxin II E promotes peroxynitrite-mediated tyrosine nitration

Maria C Romero-Puertas, Miriam Laxa, Natascia Campostrini, Alessandro Mattè, Iris Finkemeier, Pier Giorgio Righetti, Michele Perazzolli, Lello Zolla, Peter Roepstorff, Karl-Joseph Dietz and Massimo Delledonne

Proteomics, 2008, 8, 1459–1469

IF = 5.73

Coupling of native liquid phase isoelectrofocusing and BN-PAGE: an example of two dimensional native electrophoresis applicable to membrane protein complexes.

D'Amici G., Timperio AM and Zolla L.

J. Proteom Res., 2008, 7, 1326–1340

IF = 5.6

Proteomics as a complementary tool for identifying unintended side effects occurring in transgenic maize seeds as a result of genetic modifications.

Zolla L., Rinalducci S., Antonioli P. and Righetti P.G

J. Proteom Res., 2008, 7, 1850–1861

IF = 5.6

Transfusion Medicine in the Era of Proteomics

Giancarlo Liumbruno, Gian Maria D'Amici, Giuliano Grazzini, Lello Zolla

J. Proteomics 2008, 71, 34-45

Generation of Reactive Oxygen Species upon strong visible light irradiation of isolated phycobilisomes from *Synechocystis* PCC 6803

Sara Rinalducci, Jens Z. Pedersen and Lello Zolla

A proteomic approach for evaluating the cell response to a novel histone deacetylase inhibitor in colon cancer cells

A. Milli, D. Cecconi, N. Campostrini, A M Timperio, L Zolla, S C Righetti, F Zunino, P Perego, V Benedetti, L Gatti, F Odreman , A Vindigni and P G Righetti
BBA Protein and Proteomics, 2008, 1784, 1702–1710
IF = 3,3

Proteomics and transfusion medicine

Lello Zolla
Blood Transfusion, 2008, 6, 67-69

Induction of apoptosis in jeko-1 mantle cell lymphoma cell line by resveratrol : a proteomic analysis

Daniela Cecconi, Alberto Zamò, Alice Parisi, Elena Bianchi, Claudia Parolini, Anna Maria Timperio, Lello Zolla and Marco Chilosi
J. Proteom Res., 2008, 7, 2670-2680
IF = 5.6

Signal transduction pathways of mantle cell lymphoma: a phosphoproteome-based study.

Cecconi, Daniela; Zamo, Alberto; Bianchi, Elena; Parisi, Alice; Barbi, Stefano; Milli, Alberto; Rinalducci, Sara; Rosenwald, Andreas; Hartmann, Elena; Zolla, Lello; Chilosi, Marco
Proteomics (2008), 8(21), 4495-4506. IF= 5.4

Effect of cobalt ions on the soluble proteome of a *Rhodobacter sphaeroides* carotenoidless mutant

Francesca Italiano, Francesco Pisani, Francesca De Leo, Luigi Ceci, Raffaele Gallerani,
Lello Zolla, Sara Rinalducci, Livia Giotta, Francesco Milano, Angela Agostiano and Massimo Trotta
Photosynthesis. Energy from the Sun: 14th International Congress on Photosynthesis, 2008, 1479–1483

Proteomics applied on plant abiotic stresses: role of Heat Shock Proteins (HSP)

AM Timperio, MG Egidi and L Zolla
J. Proteomics, 2008, 71, 391– 411

Proteomics studies reveal important information on small molecule therapeutics: a case study on blood proteins and their interactions

Zolla L.
Drug Discovery Today 2008, 13, 1042-1051 IF = 6.9

Redox proteomics: basic principles and future perspectives for detection of protein oxidations in plants.

Sara Rinalducci, Leonardo Murgiano and Lello Zolla
J. Exp. Botany 2008 14, 3781–3801 IF = 3,96

De novo sequence analysis and intact mass measurements for characterization of phycocyanin isoforms from the blue-green alga *Aphanizomenon flos-aquae*

Sara Rinalducci, Peter Roepstorff and Lello Zolla
J. Mass. Spectrom. 2009, 44, 503–515

IF= 3.06

Liquid-Chromatography-Mass Spectrometry of Thylakoid Membrane Proteins

Christian G. Huber, Anna-Maria Timperio, Hansjörg Toll , and Lello Zolla
Methods Mol. Biol. 2009;492:113-30

Cadmium treated spinach leaves: Proteomic, pigment composition, and organization of thylakoid membranes

Fagioni M., D'Amici G., Timperio A.M. and Zolla L.
J Prot. Res. 2009, 8, 310-326.

IF = 5.6

Separation of Thylakoid Membrane Proteins by Sucrose Ultracentrifugation Gradient or Blue Native-SDS-PAGE Two-Dimensional Electrophoresis

Gian Maria D'Amici, Christian G. Huber, and Lello Zolla
Methods Mol. Biol. 2009, 528, 60-70.

Soluble proteome investigation of cobalt effect on *rhodobacter sphaeroides*

Francesca Italiano, Angela Agostiano and Massimo Trotta, Francesco Pisani, Francesca De Leo, Raffaele Gallerani and Luigi Ceci, Sara Rinalducci and Lello Zolla.
J. Applied Microbiology, 2009, 106, 338-49

High resolution preparation of monocyte-derived macrophages (mdm) protein fractions for clinical proteomics

Rita Polati, Annalisa Castagna, Alessandra Bossi, Natascia Campostrini, Federica Zaninotto, Anna Maria Timperio, Lello Zolla, Oliviero Olivieri, Roberto Corrocher, Domenico Girelli
Proteome Science 2009, 19, 7:4

Effect of tannic acid on *lactobacillus plantarum* wine strain during starvation: a proteomic study

Daniela Cecconi , Marta Cristofolletti , Alberto Milli , Paolo Antonioli , Sara Rinalducci ,
Lello Zolla , Giacomo Zapparoli
Electrophoresis 2009, 30, 957–965

IF= 3.6

Synergistic effect of trichostatin a and 5-aza-2'-deoxycytidine on growth inhibition of pancreatic endocrine tumour cell lines: a proteomic study

Daniela Cecconi, Massimo Donadelli, Elisa Dalla Pozza, Sara Rinalducci, Lello Zolla, Maria Teresa Scupoli, Pier Giorgio Righetti, Marta Palmieri and Aldo Scarpa.
Proteomics 2009, 9(7), 1952-66.

Protein nitration during defense response in *Arabidopsis thaliana*.

Daniela Cecconi, Stefano Orzetti, Elodie Vandelle, Sara Rinalducci, Lello Zolla, and Massimo Delledonne
Electrophoresis (2009), 30, 2460-8

***In vivo* accumulation of overoxidized peroxyredoxin iii in aged rat liver mitochondria: protective effect of acetyl-l-carnitine**

Clara Musicco, Valentina Capelli, Vito Pesce, Anna Maria Timperio, Menotti Calvani, Luigi Mosconi, Lello Zolla, Palmiro Cantatore and Maria Nicola Gadaleta
BBA Bioenergetic (2009) 1787, 890-896

Does the different proteomic profile found in apical and basal leaves of spinach reveal a plant strategy towards cadmium pollution response?

Fagioni M and L. Zolla
J. Proteom Res. (2009) , 8 , 2519-2529

NMR metabolic profiling of transgenic maize seed 33P67 extracts: Implications in the discrimination of GM and non-GM samples

Fabiana Piccioni, Lello Zolla, Donatella Capitani, Luisa Mannina
J. Agric. Food Chem. (2009) 57, 6041–6049

Proteomic analysis of *Oenococcus oeni* freeze-dried culture to assess the importance of cell acclimation to conduct malolactic fermentation in wine

Daniela Cecconi, Alberto Milli, Sara Rinalducci, Lello Zolla and Giacomo Zapparoli
Electrophoresis 2009, 30, 2988-95.

Comparative proteomics and transcriptomics analyses of livers from two different *Bos taurus* breeds: "Chianina and Holstein Friesian

Timperio AM, Angelo D'Alessandro, Lorraine Pariset, Gian Maria D'Amici, Alessio Valentini, and
Lello Zolla
J. Proteomics (2009), 73, 309-322.

The Red Blood Cell proteome and interactome: an update.

D'Alessandro, Angelo; Righetti, Pier Giorgio and Zolla, Lello
J. Proteom Res. (2009) 9, 144-163

Oligomeric characterization of the photosynthetic apparatus of *Rhodobacter Sphaeroides R 26.1* by non denaturing electrophoresis method.

GM D'Amici, S. Rinalducci, L. Murgiano, F. Italiano and L. Zolla
J. Proteom Res. (2010) 9, 192–203

Preface

Zolla L.
J. Proteomics (2010), 73, 361-364

Umbilical cord blood stem cells: Towards a proteomic approach

Angelo D'Alessandro, Giancarlo Liumbruno, Giuliano Grazzini, Simonetta Pupella, Letizia Lombardini, Lello Zolla.
J. Proteomics (2010) 73, 468-482

Blood-related proteomics

Giancarlo Liumbruno, Angelo D'Alessandro, Giuliano Grazzini, and Lello Zolla
J. Proteomics (2010) 73, 483-507

How have transfusionists used proteomics so far?

Giancarlo Liumbruno, Angelo D'Alessandro, Giuliano Grazzini and Lello Zolla
Critic Rev in Oncol and Hematol. 76 (2010) 153–172

The egg white and yolk interactomes as gleaned from extensive proteomic data

Angelo D'Alessandro, Pier Giorgio Righetti, Elisa Fasoli and Lello Zolla
J. Proteomics (2010) 73, 1028-1042

Thylakoid proteomics of Indian mustard grown under Fe-deficiency and Cd-stress using Blue-native PAGE, SDS-PAGE and ESI-MS/MS, and correlation with root ultrastructure

Qureshi M.I., D'Amici G.M., Fagioni M., Rinalducci S. and Zolla L.
J. Plant Physiol. 2010, 167, 761-770

Red blood cell storage: the story so far

Angelo D'Alessandro, Giancarlo Liumbruno, Giuliano Grazzini, Lello Zolla
Blood Transfusion 2010, 8, 82-88

Human milk: cherishing, nourishing and fostering molecular complexity. An interactomics and functional overview

Angelo D'Alessandro, Andrea Scaloni and Lello Zolla
J Proteom Res. 2010, 9, 3339-3373

Troubleshooting in platelet storage and new perspectives through proteomics

Maria Giulia Egidi, Angelo D'Alessandro, Lello Zolla.
Blood Transfusion 2010, 8(Suppl 3): s73-s81

Comparison among plasma-derived clotting Factor VIII by using monodimensional gel electrophoresis and mass spectrometry

Anna Maria Timperio, Federica Gevi, Giancarlo Liumbruno, Giuliano Grazzini, Lello Zolla.
Blood Transfusion 2010, 8(Suppl 3):s98-s104

Plasma gelsolin protein: a candidate biomarker for hepatitis B-associated liver cirrhosis identified by proteomic approach

Cristina Marrocco, Sara Rinalducci, Ashraf Mohamadkhani, Gian Maria D'Amici, Lello Zolla
Blood Transfusion 2010, 8(Suppl 3): s105-s112

Preface

L. Zolla
Blood Transfusion 2010, 8(Suppl 3): s1-s5

Proteomic Investigations on Stored Red Blood Cells

Lello Zolla and Angelo D'Alessandro
Analytical Biochemical Chemistry, 2010, 368, 111-124

Pathway analysis of proteomic data suggests a role for heat shock proteins in umbilical cord blood hematopoietic stem cells

Angelo D'Alessandro, Giuliano Grazzini, Giardina Bruno, Lello Zolla
Stem Cell Reviews and Reports, 2010, 6, 532-547

Fibroblasts from PS1 Mutated Pre-Symptomatic Subjects and Alzheimer's Disease Patients Share a Unique Protein Levels Profile.

Magini A, Urbanelli L, Ciccarone V, Tancini B, Polidoro M, Timperio AM, Zolla L, Tedde A, Sorbi S, Emiliani C.
J Alzheimers Dis. 2010, 21(2):431-44Jun 16

Recombinant clotting factor VIII concentrates: heterogeneity and high-purity evaluation.

Gian Maria D'Amici, Anna Maria Timperio, Federica Gevi, Giuliano Grazzini, Lello Zolla
Electrophoresis 2010, 31, 2730-2739

Bovine milk proteins: an updated overview through pathway, network and GO term enrichment for biological and molecular functions

Angelo D'Alessandro , Andrea Scaloni and Lello Zolla

Molec. Biosystem 2010, DOI 20877905

A proteomics and transcriptomics investigation on longissimus muscles in Large White and Casertana pig breeds

Murgiano, Leonardo; D'Alessandro, Angelo; Egidi, Maria; Crisà, Alessandra; Prosperini, Gianluca; Timperio, Anna; Valentini, Alessio; Zolla, Lello

J. Proteom. Res. 2010, 9, 6450–6466

Pharmacoproteomics: a chess game on a protein field.

D'Alessandro A, Zolla L.

Drug Discov Today. 2010 Dec;15(23-24):1015-23.

Early production of the phytoalexin resveratrol in grape during upon infection with

***Botrytis cinerea* in field conditions.**

Anna Maria Timperio, Angelo D'Allessandro, Marco Fagioni, Paolo Magro, Lello Zolla

Plant Physiol. Biochem., submitted