



CURRICULUM VITAE ALBERTO PASSI MD PhD

Full Professor of Biochemistry

Department of Surgical and Morphological Sciences (DSCM)
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Place and Birthday: Cremona, 18.3.1962

EDUCATION

1995 Specialization in Clinical Biochemistry cum laude, University of Pavia.

1992 Doctoral Degree Doctoral Degree in Biochemistry, Department of Biochemistry, University of Pavia and Genoa, Italy.

1987 Degree in Medicine and Surgery cum laude, University of Pavia, Italy.

ADDITIONAL EDUCATION

Graduate student, Medical School University of Munich (Germany) (1982)

Research Fellow, Chemical Morphology University of Manchester (UK) (1990)

ACADEMIC APPOINTMENTS

(2011-present) Full Professor of biochemistry, DSCM, University of Insubria, Varese, School of Medicine

(2008-2011) Full Professor of biochemistry, DSBSC, University of Insubria, Varese, School of Medicine

(2001-2007) Associate Professor, DSBSC, University of Insubria, Varese, School of Medicine

(1998-2001) Assistant Professor, DSBSC, University of Insubria, Varese, School of Medicine.

(1992-1998) Assistant Professor, Department of Biochemistry, University of Pavia, School of Medicine.

(1990-1998) Instructor of Biochemistry and Applied Biochemistry, University of Pavia School of Medicine.

(1998-present) Instructor of Biochemistry and Applied Biochemistry, University of Pavia School of Medicine.

EXPERIENCE

Research Scholar Cleveland Clinic Foundation (OH– USA) (2000-2001)

Postdoctoral fellow Department of Biochemistry University of Pavia (1991-1992)

Ph.D. student Department of Biochemistry University of Pavia and Genoa (1988-1991)

Military Service Military Service in Italian Air Force (Military Mountain Air Rescue) (1987-88).

CLINICAL APPOINTMENTS

Emergency service (1989-1992)

SOCIETIES

Italian Biochemistry Society (1990-present)

Italian Connective Tissue Society (1990-present).

International Society of Matrix Biology (1998-present)

American Society for Matrix Biology (2003-present)

American Society of Biochemistry and Molecular Biology (2006-present)

International Society for Hyaluronan Sciences (ISHAS) – board of trustees

AWARDS

Hellenic Biochemistry Society Award (2009)

National Fellowship Biochemical Society (University of Manchester-1990)

Alumnus of Collegio Ghislieri, Pavia, (1981-1987)

BOARD CERTIFICATION AND LICENSURE

1988, Italian Medical Association.

ACADEMIC RESPONSABILITIES

Dean of Sport Sciences Faculty (2008-16) (University of Insubria)

Director of Biotechnology Centre for Human Health (2009-15) (University of Insubria)

Director of Interdepartmental Centre for Applied Sport Sciences (CRISMA) (2016-present) (University of Insubria)

Scientific advisor of Greek Minister of University and Religious Affairs

Component of the board of “CUS (centre of university sports) dei Laghi” (Varese-Como)

Component of the “Scientific committee of Regional Sport School-CONI” (Milano)

Scientific advisor of Patras University, Heraklion University, Kapodistrian University (Athens).

JOURNAL EDITORIAL BOARD MEMBERSHIPS

- Editor Journal of Biological Chemistry (2011-2016)

- Associate Editor Connective Tissue Research

- Academic editor Plos ONE

- Editor Open Biology Journal

- Editor of Frontiers in membrane physiology and biophysics

INTERNATIONAL MEETING ATTENDANCE in the last 10 years

1. Gordon Conference on Proteoglycans, Andover NH USA, 2006
2. XX FECTS Meeting, Oulu (Finland) 2006 (**selected talk**)
3. Hyaluronan 2007, Charleston (SC-USA) (**selected talk**)
4. FEBS Selected Course, Matrix Pathobiology, Patras (Greece) May 2007 (**invited speaker**)
5. Carla Workshop of Fabre Laboratories, Soreze (France) 2007 (**invited speaker**)
6. 4th Finnish Glycoscience Symposium, Rautavaara (Finland) 2007 (**invited speaker**)
7. Gordon Conference on Proteoglycans, Andover NH USA, 2008 (**invited speaker**)
8. FEBS-IUMB Athens (GREECE) 2008 (**selected talk**)
9. International Conference on Cancer, Heraklion (Greece) 2008. (**Invited speaker**)
10. FEBS Selected Course, Matrix Pathobiology, Patras (Greece) July 2009 (**invited speaker**)
11. Hellenic Society of Biochemistry and Molecular Biology Extracellular matrix club: national meeting Patras (Greece) July 2009 (**invited speaker**).
12. Hyaluronan 2010, Kyoto (Japan) June 2010 (**invited speaker**)
13. Gordon Conference on Proteoglycans, Andover NH USA, 2010
14. 8th Finnish Glycoscience Symposium, Kuopio (Finland) 2010 (**invited speaker**)
15. Experimental Biology Meeting EB 2011, Washington (USA)
16. FEBS Selected Course, Matrix Pathobiology, Spetses (Greece) September 2011 (**invited speaker**)
17. Experimental Biology Meeting EB 2012, San Diego (USA)
18. Brazilian Society of Biochemistry meeting –SBBq Foz Uguazù (Brazil) 2012 (**Invited speaker**)
19. EB 2013 in Glycobiology workshop Boston (MA USA) (**selected speaker**)
20. Hyaluronan 2013 Oklahoma City (OK – USA) (**invited speaker**)
21. Proteoglycans 2013 Intl. Meeting (Frankfurt – Germany) (**invited speaker**)
22. FEBS Selected Course, Matrix Pathobiology, Kos (Greece) 2013 (**invited speaker**)
23. Symposium “Targeting Hyaluronan in Pathophysiology and Disease” Duesseldorf (Germany) 2014 (**invited speaker**)
24. Gordon Conference on Proteoglycans, Andover NH USA, 2014 (**invited speaker**)
25. Hyaluronan 2015, Florence 2015 (**organizer**)
26. 9th International Conference on Proteoglycans and 10th Pan-Pacific Connective Tissue Societies Symposium, Seoul (South Korea) 2015

27. XXIII Glyko meeting Split (Croatia) 2015 (**invited speaker**)
28. 5th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Rhodes (Greece) 2015, (**invited speaker**)
29. 2nd MBE European Matrix biology Meeting Athens (Greece) 2016 (**Invited speaker**)
30. Gordon Conference on Proteoglycans Andover NH (USA) **2016 (selected speaker)**

Research funds

1990-present. University FAR.
 1991-93 Fonds from CNR and MURST for “Progetto finalizzato invecchiamento”.
 1993-95. Regional funds for scientific research.
 1996. CNR funds for scientific research (Edema project).
 1997-1998 National Project “Proteoglycan metabolism in normal and pathologic conditions”
 1998. CNR funds for “Lung proteoglycans”.
 2000-2002: National funds of excellence (PRIN): MMP and matrix
 2002-2004: National funds of excellence (PRIN): Hyaluronan in cancer
 2003-2004: National funds of excellence: Plasma MMPs and collagen peptides
 2004-2005: Special funds for Biotechnology: “Cloning of UDPglucose DH from *X.Laevis* and his role in embryogenesis and his biochemical characterization in eukaryotic cells”.
 2012-2014 IRSES, EU funds FP7: progetto “INFLAMA” n° 2475126, Project leader and European responsible.
 2015-2017 RISE, EU funds Horizon 2020: progetto “Glycanc” participant

BIBLIOGRAPHY

A. Passi is author of 106 peer reviewed papers (Scopus Scholar) more than 60 international meetings presenting about 40 talks. His h-index is 27 (Scopus Scholar) or 32 (Google scholar with 164 publications). He also gave several seminars in international institutions as University of Bern (Switzerland), NY University (USA), University of Harvard (USA), Cleveland Clinic Foundation (USA), Open University (UK), University of Kuopio (Finland), Uppsala University (Sweden), Patras University (Greece), Muenster University (Germany), Heinrich Heine University Duesseldorf (Germany), University of Warsaw (Poland).

PRINCIPAL PAPERS last 10 years

1. Viola M, Karousou E, D'Angelo ML, Moretto P, Caon I, De Luca G, Passi A, Vigetti D. Extracellular Matrix in Atherosclerosis: Hyaluronan and Proteoglycans Insights. **Curr Med Chem.** 2016;23(26):2958-2971.
2. Karousou E, Misra S, Ghatak S, Dobra K, Götte M, Vigetti D, Passi A, Karamanos NK, Skandalis SS. Roles and targeting of the HAS/hyaluronan/CD44 molecular system in cancer. **Matrix Biol.** 2016 Oct 13. pii: S0945-053X(16)30170-6.
3. Viola M, Brüggemann K, Karousou E, Caon I, Caravà E, Vigetti D, Greve B, Stock C, De Luca G, Passi A, Götte M. MDA-MB-231 breast cancer cell viability, motility and matrix adhesion are regulated by a complex interplay of heparan sulfate, chondroitin-/dermatan sulfate and hyaluronan biosynthesis. **Glycoconj J.** 2016.
4. Kouvidi K, Berdiaki A, Tzardi M, Karousou E, Passi A, Nikitovic D, Tzanakakis GN. Receptor for hyaluronic acid- mediated motility (RHAMM) regulates HT1080 fibrosarcoma cell proliferation via a β-catenin/c-myc signaling axis. **Biochim Biophys Acta.** 2016 Apr;1860(4):814-24.

5. Uccella S, Cromi A, Vigetti D, Cimetti L, Deleonibus S, Casarin J, Passi A, Riva C, Ghezzi F. Endometrial cancer cells can express fibrinogen: Immunohistochemistry and RT-PCR analysis. **J Obstet Gynaecol.** 2015 Oct;15:1-6.
6. Viola M, Karousou E, D'Angelo ML, Caon I, De Luca G, Passi A, Vigetti D. Regulated Hyaluronan Synthesis by Vascular Cells. **Int J Cell Biol.** 2015; 2015:208303.
7. Viola M, Vigetti D, Karousou E, D'Angelo ML, Caon I, Moretto P, De Luca G, Passi A. Biology and biotechnology of hyaluronan. **Glycoconj J.** 2015 May; 32(3-4):93-103.
8. Marcozzi C, Moriondo A, Solari E, Reguzzoni M, Severgnini P, Protasoni M, Passi A, Pelosi P, Negrini D. Regional lung tissue changes with mechanical ventilation and fluid load. **Exp Lung Res.** 2015 May;41(4):228-40.
9. Moretto P, Karousou E, Viola M, Caon I, D'Angelo ML, De Luca G, Passi A, Vigetti D. Regulation of hyaluronan synthesis in vascular diseases and diabetes. **J Diabetes Res.** 2015;2015:167283.
10. Vigetti D, Karousou E, Viola M, Passi A. Analysis of hyaluronan synthase activity. **Methods Mol Biol.** 2015;1229:201-8. doi: 10.1007/978-1-4939-1714-3_18. PubMed PMID: 25325955.
11. Karousou E, Asimakopoulou AP, Zafeiropoulou V, Viola M, Monti L, Rossi A, Passi A, Karamanos N. Fast screening of glycosaminoglycan disaccharides by fluorophore-assisted carbohydrate electrophoresis (FACE): applications to biologic samples and pharmaceutical formulations. **Methods Mol Biol.** 2015;1229:143-59. doi: 10.1007/978-1-4939-1714-3_14. PubMed PMID: 25325951.
12. Karamanos NK, Passi A. Novel insights into matrix pathobiology regulatory mechanisms in health and disease. **FEBS J.** 2014 Nov;281(22):4978-9. doi:10.1111/febs.13106. Epub 2014 Nov 6. PubMed PMID: 25302642
13. Vigetti D, Deleonibus S, Moretto P, Bowen T, Fischer JW, Grandoch M, Oberhuber A, Love DC, Hanover JA, Cinquetti R, Karousou E, Viola M, D'Angelo ML, Hascall VC, De Luca G, Passi A. Natural antisense transcript for hyaluronan synthase 2 (HAS2-AS1) induces transcription of HAS2 via protein O-GlcNAcylation. **J Biol Chem.** 2014 289(42):28816-26
14. Vigetti D, Viola M, Karousou E, Deleonibus S, Karamanou K, Luca GD, Passi A. Epigenetics in extracellular matrix remodeling and hyaluronan metabolism. **FEBS J.** 2014 Jul 17. doi: 10.1111/febs.12938. [Epub ahead of print] PubMed PMID:25040101.
15. Vigetti D, Passi A. Hyaluronan synthases posttranslational regulation in cancer. **Adv Cancer Res.** 2014;123:95-119. doi: 10.1016/B978-0-12-800092-2.00004-6. PubMed PMID: 25081527.
16. Karousou E, D'Angelo ML, Kouvidi K, Vigetti D, Viola M, Nikitovic D, De Luca G, Passi A. Collagen VI and Hyaluronan: The Common Role in Breast Cancer. **Biomed Res Int.** 2014;2014:606458. Epub 2014 Jul 14. Review. PubMed PMID: 25126569;
17. Nikitovic D, Kouvidi K, Voudouri K, Berdiaki A, Karousou E, Passi A, Tzanakakis GN. The Motile Breast Cancer Phenotype Roles of Proteoglycans/Glycosaminoglycans. **Biomed Res Int.** 2014;2014:124321. Epub 2014 Jul 22. Review. PubMed PMID: 25140302; PubMed Central PMCID: PMC4129668.
18. Vigetti, D., Karousou, E., Viola, M., Deleonibus, S., De Luca, G., Passi, A. Hyaluronan: Biosynthesis and signalling (2014) **Biochimica et Biophysica Acta - General Subjects**, . Vol 1840, Issue 8, August 2014, Pages 2452–2459
19. Karousou E, Asimakopoulou A, Monti L, Zafeiropoulou V, Afratis N, Gartaganis P, Rossi A, Passi A, Karamanos NK. FACE Analysis as a Fast and Reliable Methodology to Monitor the Sulfation and Total Amount of Chondroitin Sulfate in Biological Samples of Clinical Importance. **Molecules.** 2014 Jun 12;19(6):7959-80.
20. Abbate GM, Borghi D, Passi A, Levrini L. Correlation between unstimulated salivary flow, pH and streptococcus mutans, analysed with real time PCR, in caries-free and caries-active children. **Eur J Paediatr Dent.** 2014 Mar;15(1):51-4.
21. Gialeli C, Viola M, Barbouri D, Kletsas D, Passi A, Karamanos NK. Dynamic interplay between breast cancer cells and normal endothelium mediates the expression of matrix

- macromolecules, proteasome activity and functional properties of endothelial cells. **Biochim Biophys Acta.** 2014 Feb 26. pii:S0304-4165(14)00080-4. doi: 10.1016/j.bbagen.2014.02.019.
22. Vigetti D, Karousou E, Viola M, Deleonibus S, De Luca G, Passi A. Hyaluronan: Biosynthesis and signaling. **Biochim Biophys Acta.** 2014 Feb 7. S0304-4165(14)00047-6. doi: 10.1016/j.bbagen.2014.02.001.
23. Hascall VC, Wang A, Tammi M, Oikari S, Tammi R, Passi A, Vigetti D, Hanson RW, Hart GW. The dynamic metabolism of hyaluronan regulates the cytosolic concentration of UDP-GlcNAc. **Matrix Biol.** 2014 Jan 30. pii:S0945-053X(14)00035-3. doi: 10.1016/j.matbio.2014.01.014
24. Vigetti D, Viola M, Karousou E, De Luca G, Passi A. Metabolic control of hyaluronan synthases. **Matrix Biol.** 2013 Oct 14. Vigetti D, Viola M, Karousou E, De Luca G, Passi A. Metabolic control of hyaluronan synthases. **Matrix Biol.** 2013 Oct 14. pii: S0945-053X(13)00131-5. doi: 10.1016/j.matbio.2013.10.002.
25. Viola M, Bartolini B, Vigetti D, Karousou E, Moretto P, Deleonibus S, Sawamura T, Wight TN, Hascall VC, De Luca G, Passi A. Oxidized LDL affects Hyaluronan synthesis in human aortic smooth muscle cells. **J Biol Chem.** 2013 Aug 26. 288(41):29595-603.
26. Motolese A, Vignati F, Brambilla R, Cerati M, Passi A. Interaction between a Regenerative Matrix and Wound Bed in Nonhealing Ulcers: Results with 16 Cases. **Biomed Res Int.** 2013;2013:849321. doi: 10.1155/2013/849321.
27. Karousou E, Stachtea X, Moretto P, Viola M, Vigetti D, D'Angelo ML, Raio L, Ghezzi F, Pallotti F, De Luca G, Karamanos NK, Passi A. New insights into the pathobiology of Down syndrome - hyaluronan synthase-2 overexpression is regulated by collagen VI α 2 chain. **FEBS J.** 2013 May;280(10):2418-30.
28. Vigetti D, Deleonibus S, Moretto P, Karousou E, Viola M, Bartolini B, Hascall VC, Tammi M, De Luca G, Passi A. Role of UDP-GlcNAc and O-GlcNAcylation of hyaluronan synthase 2 in the control of chondroitin sulfate and Hyaluronan synthesis. **J Biol Chem.** 2012 Oct 12;287(42):35544-55.
29. Moriondo A, Marcozzi C, Bianchin F, Reguzzoni M, Severgnini P, Protasoni M, Raspanti M, Passi A, Pelosi P, Negrini D. Impact of mechanical ventilation and fluid load on pulmonary glycosaminoglycans. **Respir Physiol Neurobiol.** 2012 May 31;181(3):308-20.
30. Piccioni F, Malvicini M, Garcia MG, Rodriguez A, Atorrasagasti C, Kippes N, Piedra Buena IT, Rizzo MM, Bayo J, Aquino J, Viola M, Passi A, Alaniz L, Mazzolini G. Antitumor effects of hyaluronic acid inhibitor 4-methylumbelliflferone in an orthotopic hepatocellular carcinoma model in mice. **Glycobiology.** 2012 Mar;22(3):400-10.
31. Vigetti D, Rizzi M, Moretto P, Deleonibus S, Dreyfuss JM, Karousou E, Viola M, Clerici M, Hascall VC, Ramoni MF, De Luca G, Passi A. Glycosaminoglycans and glucose prevent apoptosis in 4-methylumbelliflferone-treated human aortic smooth muscle cells. **J Biol Chem.** 2011 Oct 7;286(40):34497-503.
32. Merrilees MJ, Beaumont BW, Braun KR, Thomas AC, Kang I, Hinek A, Passi A, Wight TN. Neointima formed by arterial smooth muscle cells expressing versican variant V3 is resistant to lipid and macrophage accumulation. **Arterioscler Thromb Vasc Biol.** 2011 Jun;31(6):1309-16.
33. Moriondo A, Marcozzi C, Bianchin F, Passi A, Boschetti F, Lattanzio S, Severgnini P, Pelosi P, Negrini D. Impact of respiratory pattern on lung mechanics and interstitial proteoglycans in spontaneously breathing anaesthetized healthy rats. **Acta Physiol (Oxf).** 2011 Oct;203(2):331-41.
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35. Acquati F, Bertilaccio S, Grimaldi A, Monti L, Cinquetti R, Bonetti P, Lualdi M, Vidalino L, Fabbri M, Sacco MG, van Rooijen N, Campomenosi P, Vigetti D, Passi A, Riva C, Capella C, Sanvito F, Doglioni C, Gribaldo L, Macchi P, Sica A, Noonan DM, Ghia P, Taramelli R. Microenvironmental control of malignancy exerted by RNASET2, a widely conserved extracellular RNase. **Proc Natl Acad Sci U S A.** 2011 Jan 18;108(3):1104-9.
36. Vigetti D, Clerici M, Deleonibus S, Karousou E, Viola M, Moretto P, Heldin P, Hascall VC, De Luca G, Passi A. Hyaluronan synthesis is inhibited by adenosine monophosphate activated protein kinase through the regulation of Hyaluronan synthase 2 activity in human aortic smooth muscle cells. **J Biol Chem.** 2011 286(10):7917-24
37. Karangelis DE, Kanakis I, Asimakopoulou AP, Karousou E, Passi A, Theocharis AD, Triposkiadis F, Tsilimingas NB, Karamanos NK. Glycosaminoglycans as key molecules in atherosclerosis: the role of versican and hyaluronan. **Curr Med Chem.** 2010;17(33):4018-26.
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39. Karousou E, Kamiryo M, Skandalis SS, Ruusala A, Asteriou T, Passi A, Yamashita H, Hellman U, Heldin CH, Heldin P. The activity of hyaluronan synthase 2 is regulated by dimerization and ubiquitination. **J Biol Chem.** 2010 Aug 6;285(32):24639-45.
40. Gualeni B, Facchini M, De Leonardis F, Tenni R, Cetta G, Viola M, Passi A, Superti-Furga A, Forlino A, Rossi A. Defective proteoglycan sulfation of the growth plate zones causes reduced chondrocyte proliferation via an altered Indian hedgehog signalling. **Matrix Biol.** 2010 Jul;29(6):453-60.
41. Karousou E, Ronga M, Vigetti D, Barcolli D, Passi A, Maffulli N. Molecular interactions in extracellular matrix of tendon. **Front Biosci (Elite Ed).** 2010 Jan 1;2:1-12.
42. Vigetti D, Genasetti A, Karousou E, Viola M, Clerici M, Bartolini B, Moretto P, De Luca G, Hascall VC, Passi A. Modulation of hyaluronan synthase activity in cellular membrane fractions. **J Biol Chem.** 2009 Oct 30;284(44):30684-94.
43. Tajana MS, Murena L, Valli F, Passi A, Grassi FA. Correlations between biochemical markers in the synovial fluid and severity of rotator cuff disease. **Chir Organi Mov.** 2009 Apr;93 Suppl 1:S41-8.
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46. Vigetti D, Viola M, Karousou E, Genasetti A, Rizzi M, Clerici M, Bartolini B, Moretto P, De Luca G, Passi A. Vascular pathology and the role of hyaluronan. **ScientificWorldJournal.** 2008 Nov 2;8:1116-8.
47. Vigetti D, Andolini O, Clerici M, Negrini D, Passi A, Moriondo A. Chondroitin sulfates act as extracellular gating modifiers on voltage-dependent ion channels. **Cell Physiol Biochem.** 2008;22(1-4):137-46.
48. Pirrone F, Mazzola SM, Pastore C, Paltrinieri S, Sironi G, Riccaboni P, Viola M, Passi A, Clement MG, Albertini M. Activated protein C protection from lung inflammation in endotoxin-induced injury. **Exp Biol Med (Maywood).** 2008 Nov;233(11):1462-8.

49. Vigetti D, Moretto P, Viola M, Genasetti A, Rizzi M, Karousou E, Clerici M, Bartolini B, Pallotti F, De Luca G, Passi A. Aortic smooth muscle cells migration and the role of metalloproteinases and hyaluronan. **Connect Tissue Res.** 2008;49(3):189-92.
50. Genasetti A, Vigetti D, Viola M, Karousou E, Moretto P, Rizzi M, Bartolini B, Clerici M, Pallotti F, De Luca G, Passi A. Hyaluronan and human endothelial cell behavior. **Connect Tissue Res.** 2008;49(3):120-3.
51. Viola M, Vigetti D, Genasetti A, Rizzi M, Karousou E, Moretto P, Clerici M, Bartolini B, Pallotti F, De Luca G, Passi A. Molecular control of the hyaluronan biosynthesis. **Connect Tissue Res.** 2008;49(3):111-4.
52. Viola M, Vigetti D, Karousou E, Bartolini B, Genasetti A, Rizzi M, Clerici M, Pallotti F, De Luca G, Passi A. New electrophoretic and chromatographic techniques for analysis of heparin and heparan sulfate. **Electrophoresis.** 2008 Aug;29(15):3168-74.
53. Karousou E, Ronga M, Vigetti D, Passi A, Maffulli N. Collagens, proteoglycans, MMP-2, MMP-9 and TIMPs in human achilles tendon rupture. **Clin Orthop Relat Res.** 2008 Jul;466(7):1577-82.
54. Negrini D, Passi A, Moriondo A. The role of proteoglycans in pulmonary edema development. **Intensive Care Med.** 2008 Apr;34(4):610-8.
55. Vigetti D, Viola M, Karousou E, Rizzi M, Moretto P, Genasetti A, Clerici M, Hascall VC, De Luca G, Passi A. Hyaluronan-CD44-ERK1/2 regulate human aortic smooth muscle cell motility during aging. **J Biol Chem.** 2008 Feb 15;283(7):4448-58.
56. Genasetti A, Valentino ML, Carelli V, Vigetti D, Viola M, Karousou EG, Melzi d'Erli GV, De Luca G, Passi A, Pallotti F. Assessing heteroplasmic load in Leber's hereditary optic neuropathy mutation 3460G->A/MT-ND1 with a real-time PCR quantitative approach. **J Mol Diagn.** 2007 Sep;9(4):538-45.
57. Pelosi P, Rocco PR, Negrini D, Passi A. The extracellular matrix of the lung and its role in edema formation. **An Acad Bras Cienc.** 2007 Jun;79(2):285-97.
58. Moriondo A, Pelosi P, Passi A, Viola M, Marcozzi C, Severgnini P, Ottani V, Quaranta M, Negrini D. Proteoglycan fragmentation and respiratory mechanics in mechanically ventilated healthy rats. **J Appl Physiol.** 2007 Sep;103(3):747-56.
59. Negrini D, Passi A. Interstitial matrix and transendothelial fluxes in normal lung. **Respir Physiol Neurobiol.** 2007 Dec 15;159(3):301-10.
60. Vigetti D, Moretto P, Viola M, Genasetti A, Rizzi M, Karousou E, Pallotti F, De Luca G, Passi A. Matrix metalloproteinase 2 and tissue inhibitors of metalloproteinases regulate human aortic smooth muscle cell migration during in vitro aging. **FASEB J.** 2006 Jun;20(8):1118-30.
61. Mattarucchi E, Marsoni M, Passi A, Lo Curto F, Pasquali F, Porta G. Establishment and study of different real-time polymerase chain reaction assays for the quantification of cells with deletions of chromosome 7. **J Mol Diagn.** 2006 May;8(2):218-24.
62. Uccella S, Cerutti R, Vigetti D, Furlan D, Oldrini R, Carnevali I, Pelosi G, La Rosa S, Passi A, Capella C. Histidine decarboxylase, DOPA decarboxylase, and vesicular monoamine transporter 2 expression in neuroendocrine tumors: immunohistochemical study and gene expression analysis. **J Histochem Cytochem.** 2006 Aug;54(8):863-75.
63. Vigetti D, Ori M, Viola M, Genasetti A, Karousou E, Rizzi M, Pallotti F, Nardi I, Hascall VC, De Luca G, Passi A. Molecular cloning and characterization of UDP-glucose dehydrogenase from the amphibian *Xenopus laevis* and its involvement in hyaluronan synthesis. **J Biol Chem.** 2006 Mar 24;281(12):8254-63.
64. Viola M, Karousou EG, Vigetti D, Genasetti A, Pallotti F, Guidetti GF, Tira E, De Luca G, Passi A. Decorin from different bovine tissues: study of glycosaminoglycan chain by PAGEFS. **J Pharm Biomed Anal.** 2006 Apr 11;41(1):36-42.

65. Negrini D, Tenstad O, Passi A, Wiig H. Differential degradation of matrix proteoglycans and edema development in rabbit lung. **Am J Physiol Lung Cell Mol Physiol.** 2006 Mar; 290(3):L470-7.
66. Antoine Malek, N.E Bersinger, S. Di Santo, M.D. Mueller, R. Sanger, H. Schneider, F. Grezzi, E. Karousou, A. Passi, G. De Luca, L. Raio. C-Reactive Protein production in term human placental tissue. (2006) **Placenta** **26** (6-7) 619-25