


CURRICULUM VITAE
ALBERTO PASSI MD PhD

Full Professor of Biochemistry
Department of Medicine and and Surgery (DMC)
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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.

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)

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

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

Component elected of the National Board of Biochemical professors (2017-19)

JOURNAL EDITORIAL BOARD MEMBERSHIPS

- Editor Journal of Biological Chemistry (2011-2016)
- Associate Editor Connective Tissue Research
- Academic editor Plos ONE
- Editor Matrix Biology
- Editor Open Biology Journal
- Editor of Frontiers in membrane physiology and biophysics

INTERNATIONAL MEETING ATTENDANCE in the last 5 years

1. Experimental Biology Meeting EB 2012, San Diego (USA)
2. Brazilian Society of Biochemistry meeting –SBBq Foz Uguazù (Brazil) 2012 (**Invited speaker**)
3. EB 2013 in Glycobiology workshop Boston (MA USA) (**selected speaker**)
4. Hyaluronan 2013 Oklahoma City (OK – USA) (**invited speaker**)
5. Proteoglycans 2013 Intl. Meeting (Frankfurt – Germany) (**invited speaker**)
6. FEBS Selected Course, Matrix Pathobiology, Kos (Greece) 2013 (**invited speaker**)
7. Symposium “Targeting Hyaluronan in Pathophysiology and Disease” Duesseldorf (Germany) 2014 (**invited speaker**)
8. Gordon Conference on Proteoglycans, Andover NH USA, 2014 (**invited speaker**)
9. Hyaluronan 2015, Florence 2015 (**organizer**)
10. 9th International Conference on Proteoglycans and 10th Pan-Pacific Connective Tissue Societies Symposium, Seoul (South Korea) 2015
11. XXIII Glyko meeting Split (Croatia) 2015 (**invited speaker**)
12. 5th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Rhodes (Greece) 2015, (**invited speaker**)
13. 2nd MBE European Matrix biology Meeting Athens (Greece) 2016 (**Invited speaker**)
14. Gordon Conference on Proteoglycans Andover NH (USA) **2016 (selected speaker)**
15. 6th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Spetses (Greece) 2017, (**invited speaker**)
16. Hyaluronan 2017 – Cleveland OH (USA) (**invited speaker**)

BIBLIOGRAPHY

A. Passi is author of 108 peer reviewed papers (Scopus Scholar) more than 60 international meetings presenting about 50 talks. His h-index is 29 (Scopus Scholar 108 publications) or 35 (Google scholar with 183 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 PUBLICATIONS IN THE LAST 10 YEARS.

1. Azzi L, Moretto P, Vinci R, Croveri F, Boggio A, Silvestre-Rangil J, Tettamanti L, Tagliabue A, Passi A. Human β 2-defensin in oral lichen planus expresses the degree of inflammation. **J Biol Regul Homeost Agents**. 2017 Apr-Jun;31(2 Suppl 1):77-87.
2. Azzolini C, Congiu T, Donati S, Passi A, Basso P, Piantanida E, Mariotti C, Testa F, Caprani SM, Cattaneo J, Vinciguerra R. Multilayer microstructure of idiopathic epiretinal macular membranes. **Eur J Ophthalmol**. 2017 May 19:0. doi:10.5301/ejo.5000982. [Epub ahead of print] PubMed PMID: 28525683.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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
15. 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
16. 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.

17. 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.
18. 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;
19. 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.
20. 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
21. 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.
22. 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.
23. 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.
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26. 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.
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28. 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.
29. 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 $\alpha 2$ chain. **FEBS J.** 2013 May;280(10):2418-30.
30. 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.

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36. Tammi RH, Passi AG, Rilla K, Karousou E, Vigetti D, Makkonen K, Tammi MI. Transcriptional and postranslational regulation of hyaluronan synthesis. **FEBS J**. 2011; 278(9):1419-28.
37. 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.
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39. 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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42. 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.
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44. 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.
45. 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.
46. Vigetti D, Rizzi M, Viola M, Karousou E, Genasetti A, Clerici M, Bartolini B, Hascall VC, De Luca G, Passi A. The effects of 4-methylumbelliferone on hyaluronan synthesis, MMP2 activity, proliferation, and motility of human aortic smooth muscle cells. **Glycobiology.** 2009 May;19(5):537-46.
47. Cordo-Russo R, Garcia MG, Barrientos G, Orsal AS, Viola M, Moschansky P, Ringel F, Passi A, Alaniz L, Hajos S, Blois SM. Murine abortion is associated with enhanced hyaluronan expression and abnormal localization at the fetomaternal interface. **Placenta.** 2009 Jan;30(1):88-95.
48. 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.
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61. Negrini D, Passi A. Interstitial matrix and transendothelial fluxes in normal lung. **Respir Physiol Neurobiol**. 2007 Dec 15;159(3):301-10.
62. 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.
63. 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.
64. 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.
65. 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.
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67. 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.
68. 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