



CURRICULUM VITAE
ALBERTO PASSI MD PhD

Full Professor of Biochemistry

Department of Medicine and Surgery (DMC)

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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.

ACADEMIC APPOINTMENTS

(2017-present) Full Professor of biochemistry, DMC, University of Insubria, Varese, School of Medicine

(2011-2017) 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

Director of Clinical Chemistry Laboratory (2018-present) Director UOC Asst-settelaghi Varese.

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). Elected President (2016-2019)

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)

Dean of Biomedical technician Faculty (2016-present) (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)
Component of the Accademia Gerolamo Cardano
Component (socio corrispondente) of the Istituto Lombardo Accademia di Scienze e Lettere.

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. EB 2013 in Glycobiology workshop Boston (MA USA) **(selected speaker)**
2. Hyaluronan 2013 Oklahoma City (OK – USA) **(invited speaker)**
3. Proteoglycans 2013 Intl. Meeting (Frankfurt – Germany) **(invited speaker)**
4. FEBS Selected Course, Matrix Pathobiology, Kos (Greece) 2013 **(invited speaker)**
5. Symposium “Targeting Hyaluronan in Pathophysiology and Disease” Duesseldorf (Germany) 2014 **(invited speaker)**
6. Gordon Conference on Proteoglycans, Andover NH USA, 2014 **(invited speaker)**
7. Hyaluronan 2015, Florence 2015 **(organizer)**
8. 9th International Conference on Proteoglycans and 10th Pan-Pacific Connective Tissue Societies Symposium, Seoul (South Korea) 2015
9. XXIII Glyko meeting Split (Croatia) 2015 **(invited speaker)**
10. 5th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Rhodes (Greece) 2015, **(invited speaker)**
11. 2nd MBE European Matrix biology Meeting Athens (Greece) 2016 **(Invited speaker)**
12. Gordon Conference on Proteoglycans Andover NH (USA) 2016 **(selected speaker)**
13. 6th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Spetses (Greece) 2017, **(invited speaker)**
14. 7 lakes Proteoglycans Conference Varese **(organizer)**
15. Hyaluronan 2017 – Cleveland OH (USA) **(invited speaker)**
16. 3rd MBE European Matrix biology Meeting Manchester (UK) 2018 **(Invited speaker)**
17. 7th FEBS Advanced Lecture Course Extracellular Matrix: Cell Regulation, Epigenetics and Modeling. Patras (Greece) 2018, **(invited speaker)**
18. 8th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets. Porto Heli (Greece) 2019, **(invited opening lecture)**
19. 25th International Symposium On Glycoconjugates Milano (Italy) 2019
20. 11th Proteoglycan conference Kanazawa (Japan) 2019 **(invited speaker)**
21. PanHellenic Biochemistry Meeting Athens (Greece) 2019 **(invited speaker)**

BIBLIOGRAPHY

A. Passi is author of 128 peer reviewed papers (Scopus Scholar) more than 60 international meetings presenting about 50 talks. His h-index is 34 (Scopus Scholar 127 publications) or 41 (Google scholar with 225 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 (2009-2020).

1. Caon I, Bartolini B, Moretto P, Parnigoni A, Caravà E, Vitale DL, Alaniz L, Viola M, Karousou E, De Luca G, Hascall VC, Passi A, Vigetti D. Sirtuin 1 reduces hyaluronan synthase 2 expression by inhibiting nuclear translocation of NF-kB and expression of the long-non coding RNA HAS2-AS1. **J Biol Chem**. 2020 Jan 13. pii: jbc.RA119.011982. doi: 10.1074/jbc.RA119.011982. [Epub ahead of print] PubMed PMID: 31932306.
2. Brunetti J, Riolo G, Depau L, Mandarinini E, Bernini A, Karousou E, Passi A, Pini A, Bracci L, Falciani C. Unraveling Heparan Sulfate Proteoglycan Binding Motif for Cancer Cell Selectivity. **Front Oncol**. 2019 Sep 18;9:843. doi:10.3389/fonc.2019.00843. eCollection 2019. PubMed PMID: 31620357; PubMed Central PMCID: PMC6759624.
3. Caon I, Bartolini B, Parnigoni A, Caravà E, Moretto P, Viola M, Karousou E, Vigetti D, Passi A. Revisiting the hallmarks of cancer: The role of hyaluronan. **Semin Cancer Biol**. 2019 Jul 15. pii: S1044-579X(19)30042-2. doi:10.1016/j.semcancer.2019.07.007. [Epub ahead of print] Review. PubMed PMID:31319162.
4. Passi A, Vigetti D. Hyaluronan as tunable drug delivery system. **Adv Drug Deliv Rev**. 2019 Aug 14. pii: S0169-409X(19)30142-5. doi: 10.1016/j.addr.2019.08.006. [Epub ahead of print] PubMed PMID: 31421148.
5. Caon I, Bartolini B, Parnigoni A, Caravà E, Moretto P, Viola M, Karousou E, Vigetti D, Passi A. Revisiting the hallmarks of cancer: The role of hyaluronan. **Semin Cancer Biol**. 2019 Jul 15. pii: S1044-579X(19)30042-2. doi:10.1016/j.semcancer.2019.07.007. [Epub ahead of print] Review. PubMed PMID:31319162.
6. Zerbinati N, Mocchi R, Galadari H, Maccario C, Maggi M, Rauso R, Passi A, Esposito C, Sommatitis S. In Vitro Evaluation of the Biological Availability of Hyaluronic Acid Polyethylene Glycols-Cross-Linked Hydrogels to Bovine Testes Hyaluronidase. **Biomed Res Int**. 2019 Jun 12;2019:3196723. doi:10.1155/2019/3196723. eCollection 2019. PubMed PMID: 31309104; PubMed Central PMCID: PMC6594335.
7. Spinelli FM, Vitale DL, Icardi A, Caon I, Brandone A, Giannoni P, Saturno V, Passi A, García M, Sevic I, Alaniz L. Hyaluronan preconditioning of monocytes/macrophages affects their angiogenic behavior and regulation of TSG-6 expression in a tumor type-specific manner. **FEBS J**. 2019 May 1. doi:10.1111/febs.14871. [Epub ahead of print] PubMed PMID: 31044513.
8. Passi A, Vigetti D, Buraschi S, Iozzo RV. Dissecting the role of hyaluronan synthases in the tumor microenvironment. **FEBS J**. 2019 Aug;286(15):2937-2949. doi:10.1111/febs.14847. Epub 2019 Apr 22. Review. PubMed PMID: 30974514.
9. Caravà E, Marcozzi C, Bartolini B, Reguzzoni M, Moretto P, Caon I, Karousou E, Passi A, Viola M. Method for Studying ECM Expression: In Situ RT-PCR. **Methods Mol Biol**. 2019; 1952:21-31.

10. Manou D, Caon I, Bouris P, Triantaphyllidou IE, Giaroni C, Passi A, Karamanos NK, Vigetti D, Theocharis AD. The Complex Interplay Between Extracellular Matrix and Cells in Tissues. **Methods Mol Biol.** 2019; 1952:1-20.
11. Vitale DL, Spinelli FM, Del Dago D, Icardi A, Demarchi G, Caon I, García M, Bolontrade MF, Passi A, Cristina C, Alaniz L. Co-treatment of tumor cells with hyaluronan plus doxorubicin affects endothelial cell behavior independently of VEGF expression. **Oncotarget.** 2018 Nov 27;9(93):36585-36602.
12. Vandoni M, Correale L, Puci MV, Galvani C, Codella R, Togni F, Torre A, Casolo F, Passi A, Orizio C, Montomoli C. Correction: Six minute walk distance and reference values in healthy Italian children: A cross-sectional study. **PLoS One.** 2018 ;13(11):e0208179.
13. Melero-Fernandez de Mera RM, Arasu UT, Kärnä R, Oikari S, Rilla K, Vigetti D, Passi A, Heldin P, Tammi MI, Deen AJ. Effects of mutations in the post-translational modification sites on the trafficking of hyaluronan synthase 2 (HAS2). **Matrix Biol.** 2018 Oct 27. pii: S0945-053X(18)30278-6. doi:10.1016/j.matbio.2018.10.004. [Epub ahead of print] PubMed PMID: 30394292.
14. Tezuka T, Ota A, Karnan S, Matsuura K, Yokoo K, Hosokawa Y, Vigetti D, Passi A, Hatano S, Umezawa K, Watanabe H. The plant alkaloid conophylline inhibits matrix formation of fibroblasts. **J Biol Chem.** 2018 Dec 28;293(52):20214-20226.
15. Vigetti D, Caon I, Passi A. A nutrient sentinel stands guard outside the cell. **J Biol Chem.** 2018 Oct 26;293(43):16951-16952.
16. Vandoni M, Correale L, Puci MV, Galvani C, Codella R, Togni F, La Torre A, Casolo F, Passi A, Orizio C, Montomoli C. Six minute walk distance and reference values in healthy Italian children: A cross-sectional study. **PLoS One.** 2018 Oct 15;13(10):e0205792.
17. Passi A. Hyaluronan is a key regulator of skin homeostasis and wound healing. **Br J Dermatol.** 2018 Sep;179(3):558-559.
18. Karamanos NK, Piperigkou Z, Theocharis AD, Watanabe H, Franchi M, Baud S, Brézillon S, Götte M, Passi A, Vigetti D, Ricard-Blum S, Sanderson RD, Neill T, Iozzo RV. Proteoglycan Chemical Diversity Drives Multifunctional Cell Regulation and Therapeutics. **Chem Rev.** 2018 Sep 11. doi: 10.1021/acs.chemrev.8b00354. [Epub ahead of print] PubMed PMID: 30204432.
19. Vieira CP, Viola M, Carneiro GD, D'Angelo ML, Vicente CP, Passi A, Pimentel ER. Glycine improves the remodeling process of tenocytes in vitro. **Cell Biol Int.** 2018 Jan 18. doi: 10.1002/cbin.10937.
20. Filpa V, Bistoletti M, Caon I, Moro E, Grimaldi A, Moretto P, Baj A, Giron MC, Karousou E, Viola M, Crema F, Frigo G, Passi A, Giaroni C, Vigetti D. Changes in hyaluronan deposition in the rat myenteric plexus after experimentally-induced colitis. **Sci Rep.** 2017 Dec 15;7(1):17644.
21. Guasti L, Squizzato A, Moretto P, Vigetti D, Ageno W, Dentali F, Maresca AM, Campiotti L, Grandi AM, Passi A. In vitro effects of Apixaban on 5 different cancer cell lines. **PLoS One.** 2017 Oct 12; 12(10):e0185035.
22. 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.
23. 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.
24. 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.** 2017 May; 59:3-22.

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26. Motolese A, Chiaravalloti V, Cerati M, Oldrini R, Mola F, Passi A. Interleukin levels and macrophagic density in periumbilical fat tissue in patients affected by moderate-to-severe psoriasis with metabolic syndrome, before and after etanercept treatment. **G Ital Dermatol Venereol**. 2017 Aug; 152(4):342-347.
27. 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.
28. 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.
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34. 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.
35. 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.
36. 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
37. 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
38. 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.
39. 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.
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41. 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.
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 44. 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.
 45. 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.
 46. 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.
 47. 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
 48. 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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 50. 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.
 51. 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.
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 53. 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.
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 55. 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-methylumbelliferone-treated human aortic smooth muscle cells. **J Biol Chem.** 2011 Oct 7; 286(40):34497-503.
56. 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.
 57. 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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 61. 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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 64. 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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Varese, 4 febbraio 2020

Prof Alberto Passi



A handwritten signature in blue ink, appearing to read "Passi", written over a light blue grid background.