



**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.

**EXPERIENCE**

**Director of Clinical Pathology Laboratory** (2018-present) Director “Struttura Complessa” ASST-Sette-Laghi 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 (2015-18)

**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 the Medical School University of Insubria (2021-present)

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

Dean of Biomedical Technician Faculty (2016-2021) (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 and 2019-21)  
Component of the Accademia Gerolamo Cardano (Italy)  
Component (socio corrispondente) of the Istituto Lombardo Accademia di Scienze e Lettere (Italy).

### **JOURNAL EDITORIAL BOARD MEMBERSHIPS**

- Editor Journal of Biological Chemistry (2011-2016)
- Associate Editor Connective Tissue Research
- Associate Editor Molecular Biology Research - ECM
- Associate Editor Molecular Biology Reports
- 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. 2<sup>nd</sup> MBE European Matrix biology Meeting Athens (Greece) 2016 (**Invited speaker**)
2. Gordon Conference on Proteoglycans Andover NH (USA) **2016 (selected speaker)**
3. 6th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets Spetses (Greece) 2017, (**invited speaker**)
4. 7 Lakes Proteoglycans Conference Varese (Italy) (**organizer**)
5. Hyaluronan 2017 – Cleveland OH (USA) (**invited speaker**)
6. 3rd MBE European Matrix biology Meeting Manchester (UK) 2018 (**Invited speaker**)
7. 7th FEBS Advanced Lecture Course Extracellular Matrix: Cell Regulation, Epigenetics and Modeling. Patras (Greece) 2018, (**invited speaker**)
8. FISV Roma (Italy) 2018 (**invited speaker**)
9. 8th FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets. Porto Heli (Greece) 2019, (**invited opening lecture**)
10. 25th International Symposium On Glycoconjugates Milano (Italy) 2019
11. 11th Proteoglycan conference Kanazawa (Japan) 2019 (**invited speaker**)
12. PanHellenic Biochemistry Meeting Athens (Greece) 2019 (**invited speaker**)
13. Hyaluronan 2021 – Portland OR (USA) (**invited speaker**)
14. FEBS Advanced Lecture Course Matrix Pathobiology, Signaling and Molecular Targets. Crete (Greece) 2022, (**invited IUMBM sponsored lecture**)
15. Gordon Conference on Proteoglycans Andover NH (USA) 2022 (**discussion leader**)
16. 29<sup>th</sup> Glycosaminoglycan Meeting Vigoni Foundation (2022) **invited speaker**

### **BIBLIOGRAPHY**

A. Passi is author of 158 peer reviewed papers (Scopus) and during more than 70 international meetings presented about 60 talks. His h-index is 41 (Scopus 158 publications) or 50 (Google scholar with 288 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), Nancy (France).

### **PRINCIPAL PUBLICATIONS IN THE LAST 10 YEARS (2012-2023).**

1. Gabriel Bronz, Jvan Gianini, Alberto G Passi, Mattia Rizzi, Marcel M Bergmann, Gregorio P Milani, Sebastiano AG Lava, Mario G Bianchetti, Benedetta Terziroli Beretta-Piccoli, Federica Vanoni Autoimmune markers and vascular immune deposits in Finkelstein-Seidlmayer vasculitis: Systematic literature review **Journal of Autoimmunity** (2023) vol 136, 103002
2. Evgenia Karousou, Arianna Parnigoni, Paola Moretto, Alberto Passi, Manuela Viola, Davide Vigetti Hyaluronan in the Cancer Cells Microenvironment **Cancers** (2023) 15 (3) 798
3. Arianna Parnigoni, Paola Moretto, Simona Rovera, Manuela Viola, Evgenia Karousou, Alberto Passi, Davide Vigetti Particle Exclusion Assay: A Tool for Measuring Hyaluronan Pericellular Matrix **Proteoglycans: Methods and Protocols** (2023) 53-60
4. Michele Golino, Jacopo Marazzato, Federico Blasi, Matteo Morello, Valentina Chierchia, Cristina Cadonati, Elena Ghirimorlidi, Alessia Pellitteri, Federica Matteo, Claudio Licciardello, Martina Zappa, Walter Ageno, Alberto Passi, Fabio Angeli, Roberto De Ponti The predictive role of high-sensitivity cardiac troponin T in the emergency room: combining biomarkers with clinical data leads to the diagnosis of cardiovascular disease **European Heart Journal Supplements** (2022) 24, 516
5. Jette Riecks, Arianna Parnigoni, Balázs Györffy, Ludwig Kiesel, Alberto Passi, Davide Vigetti, Martin Götte The hyaluronan-related genes HAS2, HYAL1-4, PH20 and HYALP1 are associated with prognosis, cell viability and spheroid formation capacity in ovarian cancer **Journal of Cancer Research and Clinical Oncology**, (2022) 1-21
6. Annalisa Bosi, Davide Banfi, Michela Bistoletti, Lucia Martina Catizzone, Anna Maria Chiaravalli, Paola Moretto, Elisabetta Moro, Evgenia Karousou, Manuela Viola, Maria Cecilia Giron, Francesca Crema, Carlo Rossetti, Giorgio Binelli, Alberto Passi, Davide Vigetti, Cristina Giaroni, Andreina Baj Hyaluronan Regulates Neuronal and Immune Function in the Rat Small Intestine and Colonic Microbiota after Ischemic/Reperfusion Injury **Cells** (2022) vol 21 (11), 3370
7. Arianna Parnigoni, Manuela Viola, Evgenia Karousou, Simona Rovera, Cristina Giaroni, Alberto Passi, Davide Vigetti Role of hyaluronan in pathophysiology of vascular endothelial and smooth muscle cells **American Journal of Physiology-Cell Physiology**, (2022) 323 (2), C505-C519
8. Parnigoni A, Caon I, Wei Xuan T, Moretto P, Bartolini B, Viola M, Karousou E, Yip GW, Götte M, Heldin P, Passi A, Vigetti D The natural antisense transcript HAS2-AS1 regulates breast cancer cells aggressiveness independently from hyaluronan metabolism **Matrix Biology** (2022) 109, 140-161
9. Michele Golino, Jacopo Marazzato, Federico Blasi, Matteo Morello, Valentina Chierchia, Cristina Cadonati, Federica Matteo, Claudio Licciardello, Martina Zappa, Walter Ageno, Alberto Passi, Fabio Angeli, Roberto De Ponti High-Sensitivity Cardiac Troponin T and the Diagnosis of Cardiovascular Disease in the Emergency Room: The Importance of Combining Cardiovascular Biomarkers with Clinical Data **Journal of Clinical Medicine** (2022) 11 (13), 3798
10. Zoi Piperigkou, Anastasios Koutsandreas, Marco Franchi, Vasiliki Zolota, Dimitrios Kletsas, Alberto Passi, Nikos Karamanos ESR2 Drives Mesenchymal-to-Epithelial Transition in Triple-Negative Breast Cancer and Tumorigenesis In Vivo **Frontiers in Oncology**, (2022) , 12:917633 DOI: 10.3389/fonc.2022.917633 PMID: 35719919 PMCID: PMC9203970

11. Gallo D, Mortara L, Veronesi G, Cattaneo SAM, Genoni A, Gallazzi M, Peruzzo C, Lasalvia P, Moretto P, Bruno A, Passi A, Pini A, Nauti A, Lavizzari MA, Marinò M, Lanzolla G, Tanda ML, Bartalena L, Piantanida E Add-On Effect of Selenium and Vitamin D Combined Supplementation in Early Control of Graves' Disease Hyperthyroidism During Methimazole Treatment **Front Endocrinol (Lausanne)** (2022) v.13; 2022 PMC9240752
12. Vigetti D, Karousou E, Viola M, Passi A A Nonradioactive Method to Measure Hyaluronan Synthase Activity **Glycosaminoglycans**, (2022) 63-70
13. Bosi A, D Banfi, M Bistoletti, P Moretto, E Moro, F Crema, F Maggi, E Karousou, M Viola, A Passi, D Vigetti, C Giaroni, A Baj Hyaluronan: A Neuroimmune Modulator in the Microbiota-Gut Axis **Cells** (2022) 11 (1), 126
14. Vigetti D, E Karousou, M Viola, A Passi A Nonradioactive Method to Measure Hyaluronan Synthase Activity **Glycosaminoglycans** (2022), 63-70
15. Altieri M, A Passi, R Vezzali, D Pinto, G Giuliani, F Rinaldi Characterization of a class IIb gynecological medical device containing hyaluronic acid, beta-glucan, sericin and glycerophosphoinositol: mechanism of action and pilot clinical **Journal of Investigative Dermatology** (2021) 141 (10), S214-S214
16. Nikos K Karamanos, Zoi Piperigkou, Alberto Passi, Martin Götte, Patricia Rousselle, Israel Vlodavsky Extracellular matrix-based cancer targeting **Trends in Molecular Medicine**, (2021) 27 (10), 1000-1013.
17. Elena Caravà, Paola Moretto, Ilaria Caon, Arianna Parnigoni, Alberto Passi, Evgenia Karousou, Davide Vigetti, Jessica Canino, Ilaria Canobbio, Manuela Viola HA and HS Changes in Endothelial Inflammatory Activation **Biomolecules** (2021) 11 (6); pag 809.
18. Parnigoni A, I Caon, P Moretto, M Viola, E Karousou, A Passi, D Vigetti The role of the multifaceted long non-coding RNAs: A nuclear-cytosolic interplay to regulate hyaluronan metabolism **Matrix Biology Plus** (2021), vol 11 100060
19. Marina Marozzi, Arianna Parnigoni, Aide Negri, Manuela Viola, Davide Vigetti, Alberto Passi, Evgenia Karousou, Federica Rizzi Inflammation, Extracellular Matrix Remodeling, and Proteostasis in Tumor Microenvironment **International Journal of Molecular Sciences** (2021) DOI: 10.3390/ijms22158102
20. Karamanos, NK; Theocharis, AD; Piperigkou, Z; Manou, D; Passi, A; Skandalis, SS; Vynios, DH; Oriana Rousseau, V; Ricard-Blum, S; Schmelzer, CEH : A Guide to the Composition and Functions of the Extracellular Matrix **FEBS Journal**,(2021) in press
21. Formenti, D; Trecroci, A; Duca, M; Cavaggioni, L; D'Angelo, F; Passi, A; Longo, S; Alberti, G Differences in inhibitory control and motor fitness in children practicing open and closed skill sports **Scientific Reports**: (2021),11(1) 2021, 11(1), 4033.
22. Caon I, ML D'Angelo, B Bartolini, E Caravà, A Parnigoni, F Contino, Patrizia Cancemi, Paola Moretto, Nikos K Karamanos, Alberto Passi, Davide Vigetti, Evgenia Karousou, Manuela Viola The Secreted Protein C10orf118 Is a New Regulator of Hyaluronan Synthesis Involved in Tumour-Stroma Cross-Talk **Cancers** (2021) 13 (5), 1105
23. Vitale, DL; Caon, I; Parnigoni, A; Sevic, I; Spinelli, F M; Icardi, A; Passi, A; Vigetti, D; Alaniz, L. Initial Identification of UDP-Glucose Dehydrogenase as a Prognostic Marker in Breast Cancer Patients, Which Facilitates Epirubicin Resistance and Regulates Hyaluronan Synthesis in MDA-MB-231 Cells **Biomolecules**: 2021,11 (2), pp.246.
24. Caon I, Parnigoni A, Viola M, Karousou E, Passi A, Vigetti D. Cell Energy Metabolism and Hyaluronan Synthesis. **J Histochem Cytochem**: 2021, 69(1), pp. 35–47.
25. Depau Lorenzo; Jlenia Brunetti; Chiara Falciani; Elisabetta Mandarini; Giulia Riolo; Marta Zanchi; Evgenia Karousou; Alberto Passi; Alessandro Pini; Luisa Bracci Heparan Sulfate Proteoglycans Can Promote Opposite Effects on Adhesion and Directional Migration of Different Cancer **Journal of Medicinal Chemistry**, 2020, 63(24), pp. 15997–16011
26. Bistoletti M, Bosi A, Caon I, Chiaravalli AM, Moretto P, Genoni A, Moro E, Karousou E, Viola M, Crema F, Baj A, Passi A, Vigetti D, Giaroni C. Involvement of hyaluronan in the

- adaptive changes of the rat small intestine neuromuscular function after ischemia/reperfusion injury. **Scientific reports** (2020) 10 (1), 1-17.
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  30. 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- $\kappa$ B and expression of the long-non coding RNA HAS2-AS1. **Journal of Biological Chemistry** (2020) 295 (11), 3485-3496.
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  32. 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. **Seminars in cancer biology** (2020) 62, 9-19
  33. Passi A, Vigetti D. Hyaluronan as tunable drug delivery system. **Advanced drug delivery reviews** (2019) 146, 83-96
  34. Zerbinati N, Mocchi R, Galadari H, Maccario C, Maggi M, Rauso R, Passi A, Esposito C, Sommatis 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.
  35. 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. **The FEBS journal** (2019) 286 (17), 3433-3449.
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- 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.
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  45. Passi A. Hyaluronan is a key regulator of skin homeostasis and wound healing. **Br J Dermatol.** 2018 Sep;179(3):558-559.
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  55. 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.
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64. Karamanos NK, Passi A. Novel insights into matrix pathobiology regulatory mechanisms in health and disease. **FEBS J.** 2014 Nov; 281(22):4978-9.
65. 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
66. Vigetti D, Viola M, Karousou E, Deleonibus S, Karamanou K, Luca GD, Passi A. Epigenetics in extracellular matrix remodeling and hyaluronan metabolism. **The FEBS journal** (2014) 281 (22), 4980-4992.
67. Vigetti D, Passi A. Hyaluronan synthases posttranslational regulation in cancer. **Adv Cancer Res.** 2014;123:95-119
68. 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;
69. 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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