

VIOLETTA BORELLI Ph.D. *CURRICULUM VITAE*



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CERTIFICATIONS

November 1994 obtained the certification as a biologist and regularly enrolled in the National Biologists' Register.

AWARDS

Winner of the study award in the memory of the biologist "Antonio Marzullo" for the academic year 1992-1993.

EDUCATION

1993 - *B.S. Degree in Biology, University of Trieste ("110 e lode")*. Dissertation: "L'LDL-afesi quale modello "in vivo" per lo studio del rapporto LDL-monociti nella patogenesi dell'aterosclerosi: analisi della capacità adesiva dei monociti all'endotelio in due pazienti ipercolesterolemici" (*LDL-apheresis as an "in vivo" model for the study of the LDL-monocyte interaction in the pathogenesis of atherosclerosis: analysis of monocyte adhesion to the endothelium in two hypercholesterolemic patients*).

1998 - *PhD Degree in Experimental and Clinical Pathology, University of Trieste*. Dissertation: "Messa a punto di un metodo per la valutazione della degranolazione e suo impiego nello studio del processo secretorio in granulociti neutrofili umani" (*Development of a method for the evaluation of degranulation and its application in the study of the secretory process in human neutrophil granulocytes*).

1999-2003. *Four-year research grant for the scientific disciplinary sector F04A General Pathology. Project: "Rapporto tra il meccanismo di ingestione dei micobatteri nei fagociti e capacità micobatteriostatica di queste cellule" (Relationship between the mechanism of ingestion of mycobacteria in phagocytes and mycobacteriostatic capacity of these cells).*

- *March-April 2001 VISITING SCIENTIST, on behalf of the Callerio Onlus Foundation, at the Department of Microbiology of Colorado State University (Supervisor prof. J. T. Belisle). Project: Evaluation of the antibacterial activity of human leukocyte peroxidase on virulent strains of Mycobacterium tuberculosis.*

2003-2005: *Coordinated and continuous collaboration, University Trieste. Project: Salivary analysis of inflammatory mediators in periodontitis and oral candidosis.*

EMPLOYMENT

2005-present: University researcher of General Pathology at the Medical Faculty and then Department of Life Sciences, University of Trieste.

1998-present: Lecturer of General Pathology and Clinical Pathology Courses at the Department of Medical, Surgical and Health Sciences. Direct senior thesis, Direct PhD thesis, Coordinate student internships.

ADMINISTRATIVE ROLE AND POSITION RESPONSIBILITY

2016-2019: member Centro Interdipartimentale per la ricerca multidisciplinare sull'amianto (CIRMA)" (*Interdepartmental Center for Multidisciplinary Research on Asbestos*).

2022- present: Member of "Collegio di disciplina" (*Discipline college*) of University of Trieste (Prot. n. 38700 del 07/03/2022 - Rep. Decreti del Rettore - n. 191/2022) (duration 2022/2025).

2022- present, member of "Centro Interdipartimentale per la Ricerca Didattica – CIRD" (*Interdepartmental Center for Didactic Research*).

PROFESSIONAL SERVICE

2018-present: Member of the Friuli Venezia Giulia Regional Committee on Asbestos.

2022: Guest Editor of Special Issue "Iron Metabolism and Inflammation" for International Journal Molecular Sciences.

2021: Review Editor for Molecular Innate Immunity, Frontiers in Immunology

Reviewer for: Psychoneuroendocrinology, International Journal Molecular Sciences, J Toxicol Environ Health A, Minerals, Int. J. Environ. Res. Public Health....

~~2015 present: member of Gruppo Nazionale Biofibre (Nucleo Tecnico Amianto nato dall'Accordo 66/CU del 5-5-16).~~

RESEARCH GRANTS

1. 2001 - University of Trieste, "Progetto GIOVANI RICERCATORI" (funds assigned: 2562,28 Euro) (Position in the project: Principal Investigator)
2. 2008 - University of Trieste, "Fondo di Ateneo" (funds assigned 4000, 00 Euro) (Position in the project: Principal Investigator)
3. 2016 - Regione FVG, project: "Omeostasi del ferro a livello polmonare e patologie asbesto correlate nuovi approcci per lo screening della popolazione degli esposti" (*Lung iron homeostasis and asbestos-related diseases: new approaches for screening the asbestos-exposed population*), (provvedimento N.137 DD. 15/03/2017 della AAS N.2 "BASSA FRIULANA-ISONTINA"). Project duration: 2016-2018 (funds assigned 28.203,00 Euro) (Position in the project: partecipant).
4. 2017: Lega Italiana per la lotta ai Tumori, Programma 5 per mille anno 2015 (Gorizia section), project: "Omeostasi del ferro a livello polmonare e patologie asbesto correlate. Nuovi approcci per lo

- screening della popolazioni degli esposti" (*Lung iron homeostasis and asbestos-related diseases: new approaches for screening the asbestos-exposed population*). Project duration: 2018-2020. (fund assigned 80.000,00 Euro). (Position in the project: Principal Investigator).
5. 2021 – Regione FVG (L.R. 16-2014 art. 26): project: "Te lo racconto io l'amianto!" (*Let's tell you about asbestos*) by Consorzio Culturale del Monfalconese (fund assigned 24.800 Euro) (Position in the project: scientific manager).
 6. 2020- present: Liberal donations form LILT&Municipality of Monfalcone /AEA. Fund assigned: 115.000,00 Euro
 7. 2021 - Scientific manager of the project "INertizzazione Potenziale PATOgenetico -Valutazione del potenziale patogenetico delle fibre di amianto dopo inertizzazione (*Evaluation of the pathogenetic potential of asbestos fibers after inertization*), CUP J95F21001960006, funded by PON "Ricerca e Innovazione" 2014-2020, Asse IV "Istruzione e ricerca per il recupero", Azione IV.6 "Contratti di ricerca su tematiche Green".

PUBLICATIONS

1. Vita F, Soranzo MR, **Borelli V**, Bertocin P, Zabucchi G. Subcellular localization of the small GTPase Rab5a in resting and stimulated human neutrophils. *Exp Cell Res*. **1996** Sep 15;227(2):367-73. doi: 10.1006/excr.1996.0286. Erratum in: *Exp Cell Res* 1997 Feb 1;230(2):415. PMID: 8831575.
2. Vita, F., Borelli, V., Soranzo, M.R. et al. Preparation of membrane fractions from human neutrophil granules: A simple method. *Methods Cell Sci* 19, 197–205 (1997). <https://doi.org/10.1023/A:1009711726462>
3. Cattin L, Petrucco A, Cazzolato G, Bon GB, **Borelli V**, Nardon E, Zabucchi G, Fonda M, Bordin P. Low density lipoprotein-apheresis decreases oxidized low density lipoproteins and monocyte adhesion to endothelial cells. *ASAIO J*. **1997** May-Jun;43(3):209-13. PMID: 9152493.
4. **Borelli V**, Banfi E, Perrotta MG, Zabucchi G. Myeloperoxidase exerts microbicidal activity against *Mycobacterium tuberculosis*. *Infect Immun*. **1999** Aug;67(8):4149-52. doi: 10.1128/IAI.67.8.4149-4152.1999. PMID: 10417186; PMCID: PMC96719.
5. **Borelli V**, Vita F, Soranzo MR, Banfi E, Zabucchi G. Ultrastructure of the interaction between *Mycobacterium tuberculosis*- H37Rv-containing phagosomes and the lysosomal compartment in human alveolar macrophages. *Exp Mol Pathol*. **2002** Oct;73(2):128-34. doi: 10.1006/exmp.2002.2452. PMID: 12231214.
6. **Borelli V**, Perrotta MG, Vita F, Soranzo MR, Zabucchi G. A new assay to monitor the degranulation process in phagocytizing human neutrophils. *Inflammation*. **2002** Feb;26(1):45-60. doi: 10.1023/a:1014473813304. PMID: 11936755.
7. **Borelli V**, Vita F, Shankar S, Soranzo MR, Banfi E, Scialino G, Brochetta C, Zabucchi G. Human eosinophil peroxidase induces surface alteration, killing, and lysis of *Mycobacterium tuberculosis*. *Infect Immun*. **2003** Feb;71(2):605-13. doi: 10.1128/IAI.71.2.605-613.2003. PMID: 12540536; PMCID: PMC145361.
8. Brochetta C, Perrotta MG, Jeromin A, Romano M, Vita F, Soranzo MR, **Borelli V**, Roder J, Zabucchi G. Identification and subcellular localization of neuronal calcium sensor-1 (NCS-1) in human neutrophils and HL-60 cells. *Inflammation*. **2003** Dec;27(6):361-72. doi: 10.1023/b:ifla.0000006704.13043.51. PMID: 14760944. Siracusano S, Vita F, Abbate R, Ciciliato S, **Borelli V**, Bernabei M, Zabucchi G. The role of granulocytes following intravesical BCG prophylaxis.

- Eur Urol. **2007** Jun;51(6):1589-97; discussion 1597-9. doi: 10.1016/j.eururo.2006.11.045. Epub 2006 Dec 6. PMID: 17222501.
9. Vita F, Abbate R, **Borelli V**, Brochetta C, Soranzo MR, Zabucchi G. BCG-induced rabbit alveolar macrophages are endowed with strengthened antioxidant metabolic pathways. *Inflammation*. **2008** Feb;31(1):9-23. doi: 10.1007/s10753-007-9045-z. Epub 2007 Oct 2. PMID: 17909954.
 10. **Borelli V**, Brochetta C, Melato M, Rizzardi C, Polentarutti M, Busatto C, Vita F, Abbate R, Gotter R, Zabucchi G. A procedure for the isolation of asbestos bodies from lung tissue by exploiting their magnetic properties: a new approach to asbestos body study. *J Toxicol Environ Health A*. **2007** Jul;70(14):1232-40. doi: 10.1080 /15287390701380906. PMID: 17573637.
 11. Medic N, Vita F, Abbate R, Soranzo MR, Pacor S, Fabbretti E, **Borelli V**, Zabucchi G. Mast cell activation by myelin through scavenger receptor. *J Neuroimmunol*. 2008 Aug 30;200(1-2):27-40. doi: 10.1016/j.jneuroim.2008.05.019. Epub **2008** Jul 26. PMID: 18657868.
 12. **Borelli V***, Marchioli A, Di Taranto R, Romano M, Chiandussi S, Di Lenarda R, Biasotto M, Zabucchi G. Neuropeptides in saliva of subjects with burning mouth syndrome: a pilot study. *Oral Dis*. **2010** May;16(4):365-74. doi: 10.1111/j.1601-0825.2009.01648.x. Epub 2010 Mar 9. PMID: 20233324.
 13. **Borelli V**, Zabucchi G. Burning mouth syndrome: mast cell connection. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod*. **2011** Oct;112(4):414. doi: 10.1016/j.tripleo.2011.04.016. Epub 2011 Aug 6. PMID: 21821442.
 14. Vita F, Siracusano S, Abbate R, Ciciliato S, **Borelli V**, Soranzo MR, Zabucchi G. BCG prophylaxis in bladder cancer produces activation of recruited neutrophils. *Can J Urol*. **2011** Feb;18(1):5517-23. PMID: 21333042.
 15. Trevisan, E., Andolfi, L., Troian, B., Prato, S., Casarsa, C., Vita, F., Borelli, V., Zabucchi, G., & Zweyer, M. (2011). The interaction of asbestos fibres with human mesothelial cells: a combined investigation exploiting microscopic and nanoscopic techniques. *Italian Journal of Anatomy and Embryology*, 116(2), 189. Retrieved from <https://oajournals.fupress.net/index.php/ijae/article/view/4763>
 16. **Borelli V**, Trevisan E, Vita F, Bottin C, Melato M, Rizzardi C, Zabucchi G. Peroxidase-like activity of ferruginous bodies isolated by exploiting their magnetic property. *J Toxicol Environ Health A*. **2012**;75(11):603-23. doi: 10.1080/15287394.2012.688478. PMID: 22712847
 17. Bevilacqua L, Eriani J, Serroni I, Liani G, **Borelli V**, Castronovo G, Di Lenarda R. Effectiveness of adjunctive subgingival administration of amino acids and sodium hyaluronate gel on clinical and immunological parameters in the treatment of chronic periodontitis. *Ann Stomatol (Roma)*. **2012** Apr;3(2):75-81. Epub 2012 Aug 9. PMID: 23087790; PMCID: PMC3476496.
 18. Andolfi L, Trevisan E, Zweyer M, Prato S, Troian B, Vita F, **Borelli V**, Soranzo MR, Melato M, Zabucchi G. The crocidolite fibres interaction with human mesothelial cells as investigated by combining electron microscopy, atomic force and scanning near-field optical microscopy. *J Microsc*. **2013** Mar;249(3):173-83. doi: 10.1111/jmi.12006. Epub 2013 Jan 11. PMID: 23305229.
 19. Trevisan, E., Borelli, V., Bortul, R., Zweyer, M., & Zabucchi, G. (2014). Increase in ferric and ferrous iron in the mouse lung after asbestos exposure. *Italian Journal of Anatomy and Embryology*, 118(2), 188. Retrieved from <https://oajournals.fupress.net/index.php/ijae/article/view/3898>
 20. Bandiera A, Markulin A, Corich L, Vita F, **Borelli V**. Stimuli-induced release of compounds from elastin biomimetic matrix. *Biomacromolecules*. 2014 Jan 13;15(1):416-22. doi: 10.1021/bm401677n. Epub 2013 Dec 20. Erratum in: *Biomacromolecules*. **2014** May 12;15(5):1933. Borrelli, Violetta [corrected to Borelli, Violetta]. PMID: 24358962.

21. Zabucchi G, Trevisan E, Vita F, Soranzo MR, **Borelli V**. NOD1 and NOD2 Interact with the Phagosome Cargo in Mast Cells: A Detailed Morphological Evidence. *Inflammation*. **2015**; 38(3):1113-25. doi: 10.1007/s10753-014-0077-x. PMID: 25502289.
22. Trevisan E, Vita F, Medic N, Soranzo MR, Zabucchi G, **Borelli V***. Mast cells kill *Candida albicans* in the extracellular environment but spare ingested fungi from death. *Inflammation*. **2014** Dec;37(6):2174-89. doi: 10.1007/s10753-014-9951-9. PMID: 24950781.
23. D'Andrea P, Scaini D, Ulloa Severino L, **Borelli V**, Passamonti S, Lorenzon P, Bandiera A. In vitro myogenesis induced by human recombinant elastin-like proteins. *Biomaterials*. **2015** Oct;67:240-53. doi: 10.1016/j.biomaterials.2015.07.041. Epub 2015 Jul 23. PMID: 26231915.
24. Bernareggi A, Ren E, **Borelli V**, Vita F, Constanti A, Zabucchi G. *Xenopus laevis* Oocytes as a Model System for Studying the Interaction Between Asbestos Fibres and Cell Membranes. *Toxicol Sci*. **2015** Jun;145(2):263-72. doi: 10.1093/toxsci/kfv050. Epub 2015 Mar 4. PMID: 25745069.
25. **Borelli V**, Moura RR, Trevisan E, Crovella S. NLRP1 and NLRP3 polymorphisms in mesothelioma patients and asbestos exposed individuals a population-based autopsy study from North East Italy. *Infect Agent Cancer*. **2015** Aug 1;10:26. doi: 10.1186/s13027-015-0022-0. PMID: 26236392; PMCID: PMC4521353.
26. Pascolo L, **Borelli V**, Canzonieri V, Gianoncelli A, Birarda G, Bedolla DE, Salomé M, Vaccari L, Calligaro C, Cotte M, Hesse B, Luisi F, Zabucchi G, Melato M, Rizzardi C. Differential protein folding and chemical changes in lung tissues exposed to asbestos or particulates. *Sci Rep*. **2015** Jul 10;5:12129. doi: 10.1038/srep12129. PMID: 26159651; PMCID: PMC4498377.
27. **Borelli V***, Trevisan E, Gammouh O, Zabucchi G. The true nature of salivary NGF. *Oral Dis*. **2015** Nov;21(8):1001-3. doi: 10.1111/odi.12370. Epub 2015 Sep 29. PMID: 26341244.
28. Crovella S, Bianco AM, Vuch J, Zupin L, Moura RR, Trevisan E, Schneider M, Brollo A, Nicastro EM, Cosenzi A, Zabucchi G, **Borelli V***. Iron signature in asbestos-induced malignant pleural mesothelioma: A population-based autopsy study. *J Toxicol Environ Health A*. **2016**;79(3):129-41. doi: 10.1080/15287394.2015.1123452. Epub 2016 Jan 28. PMID: 26818092. **IF= 2.731**, **IF_{attuale}=3.24**
29. Pascolo L, Zabucchi G, Gianoncelli A, Kourousias G, Trevisan E, Pascotto E, Casarsa C, Ryan C, Lucattelli M, Lungarella G, Cavarra E, Bartalesi B, Zweyer M, Cammisuli F, Melato M, **Borelli V***. Synchrotron X-ray microscopy reveals early calcium and iron interaction with crocidolite fibers in the lung of exposed mice. *Toxicol Lett*. 2016 Jan 22;241:111-20. doi: 10.1016/j.toxlet.2015.11.016. Epub 2015 Nov 18. PMID: 26602167.
30. Trevisan E, Zabucchi G, Pascolo L, Pascotto E, Casarsa C, Lucattelli M, Lungarella G, Cavarra E, Bartalesi B, Zweyer M, **Borelli V***. Histopathological data of iron and calcium in the mouse lung after asbestos exposure. *Data Brief*. **2016** Jan 21;6:769-75. doi: 10.1016/j.dib.2016.01.026. PMID: 26909387; PMCID: PMC4744238.
31. Agostinis C, Videgar R, Belmonte B, Mangogna A, Amadio L, Geri P, **Borelli V**, Zanconati F, Tedesco F, Confalonieri M, Tripodo C, Kishore U, Bulla R. Complement Protein C1q Binds to Hyaluronic Acid in the Malignant Pleural Mesothelioma Microenvironment and Promotes Tumor Growth. *Front Immunol*. **2017** Nov 20;8:1559. doi: 10.3389/fimmu.2017.01559. PMID: 29209316; PMCID: PMC5701913.
32. Crovella S, Moura RR, Cappellani S, Celsi F, Trevisan E, Schneider M, Brollo A, Nicastro EM, Vita F, Finotto L, Zabucchi G, **Borelli V***. A genetic variant of NLRP1 gene is associated with asbestos body burden in patients with malignant pleural mesothelioma. *J Toxicol Environ Health A*. **2018**;81(5):98-105. doi: 10.1080/15287394.2017.1416911. Epub 2017 Dec 21. PMID: 29265930.

33. **Borelli V***, Trevisan E, Francesca V, Zabucchi G. The Secretory Response of Rat Peritoneal Mast Cells on Exposure to Mineral Fibers. *Int J Environ Res Public Health*. **2018** Jan 10;15(1):104. doi: 10.3390/ijerph15010104. PMID: 29320402; PMCID: PMC5800203.
34. Bernareggi A, Conte G, Constanti A, **Borelli V**, Vita F, Zabucchi G. On the mechanism of the electrophysiological changes and membrane lesions induced by asbestos fiber exposure in *Xenopus laevis* oocytes. *Sci Rep*. **2019** Feb 14;9(1):2014. doi: 10.1038/s41598-019-38591-x. PMID: 30765791; PMCID: PMC6376119.
35. Trevisan E, Menegazzi R, Zabucchi G, Troian B, Prato S, Vita F, Rapozzi V, Grandolfo M, **Borelli V***. Effect of methylene blue photodynamic therapy on human neutrophil functional responses. *J Photochem Photobiol B*. **2019** Oct;199:111605. doi: 10.1016/j.jphotobiol.2019.111605. Epub 2019 Aug 25. PMID: 31473428.
36. Celsi F, Crovella S, Moura RR, Schneider M, Vita F, Finotto L, Zabucchi G, Zacchi P, **Borelli V***. Pleural mesothelioma and lung cancer: the role of asbestos exposure and genetic variants in selected iron metabolism and inflammation genes. *J Toxicol Environ Health A*. **2019**;82(20):1088-1102. doi: 10.1080/15287394.2019.1694612. Epub 2019 Nov 22. PMID: 31755376.
37. **Borelli V**, Martinelli M, Luppi S, Vita F, Romano F, Fanfani F, Trevisan E, Celsi F, Zabucchi G, Zanconati F, Bottin C, Ricci G*. Mast Cells in Peritoneal Fluid From Women With Endometriosis and Their Possible Role in Modulating Sperm Function. *Front Physiol*. **2020** Jan 9;10:1543. doi: 10.3389/fphys.2019.01543. PMID: 31998139; PMCID: PMC6964357.
38. Zacchi P, Belmonte B, Mangogna A, Morello G, Scola L, Martorana A, **Borelli V***. The Ferroxidase Hephaestin in Lung Cancer: Pathological Significance and Prognostic Value. *Front Oncol*. **2021** May 19;11:638856. doi: 10.3389/fonc.2021.638856. PMID: 34094919; PMCID: PMC8170403.
39. Agostinis C, Zorzet S, Balduit A, Zito G, Mangogna A, Macor P, Romano F, Toffoli M, Belmonte B, Morello G, Martorana A, **Borelli V**, Ricci G, Kishore U, Bulla R. The Inflammatory Feed-Forward Loop Triggered by the Complement Component C3 as a Potential Target in Endometriosis. *Front Immunol*. 2021 Aug 13;12:693118. doi: 10.3389/fimmu.2021.693118. PMID: 34489939; PMCID: PMC8418148
40. Crovella S, Revelant A, Muraro E, Moura RR, Brandão L, Trovò M, Steffan A, Zacchi P, Zabucchi G, Minatel E, **Borelli V***. Biological Pathways Associated With the Development of Pulmonary Toxicities in Mesothelioma Patients Treated With Radical Hemithoracic Radiation Therapy: A Preliminary Study. *Front Oncol*. 2021 Dec 22;11:784081. doi: 10.3389/fonc.2021.784081. PMID: 35004305; PMCID: PMC8728021
41. Zupin L, Fontana F, Clemente L, **Borelli V**, Ricci G, Ruscio M, Crovella S. Optimization of Anti-SARS-CoV-2 Treatments Based on Curcumin, Used Alone or Employed as a Photosensitizer. *Viruses*. **2022** Sep 27;14(10):2132. doi: 10.3390/v14102132. PMID: 36298687; PMCID: PMC9608677.
42. Crovella S*, Moura RR, Brandão L, Vita F, Schneider M, Zanconati F, Finotto L, Zacchi P, Zabucchi G, **Borelli V***. Variant Enrichment Analysis to Explore Pathways Disruption in a Necropsy Series of Asbestos-Exposed Shipyard Workers. *International Journal of Molecular Sciences*. **2022**; 23(21):13628. <https://doi.org/10.3390/ijms232113628>
43. **Borelli V**, Zangari M, Bernareggi A, Bardelli F, Vita F, Zabucchi G. Ferruginous bodies exert a strong proinflammatory effect. *J Toxicol Environ Health A*. 2023 Apr 18;86(8):241-245. doi: 10.1080/15287394.2023.2181899. Epub 2023 Feb 21. Erratum in: *J Toxicol Environ Health A*. 2023 Apr 18;86(8):I. PMID: 36809930.
44. Bardelli F, Giacobbe C, Ballirano P, **Borelli V**, Di Benedetto F, Montegrossi G, Bellis D, Pacella A. Closing the knowledge gap on the composition of the asbestos bodies. *Environ Geochem Health*. 2023 Jul;45(7):5039-5051. doi: 10.1007/s10653-023-01557-0.

45. Zangari M, **Borelli V**, Bernareggi A, Zabucchi G. Asbestos fibers promote iron oxidation and compete with apoferritin enzymatic activity. *J Toxicol Environ Health A*. 2023 Feb 1;86(2-3):69-73. doi: 10.1080/15287394.2022.2164391.
46. Bernareggi A, Zangari M, Constanti A, Zacchi P, **Borelli V**, Mangogna A, Lorenzon P, Zabucchi G. Asbestos Fibers Enhance the TMEM16A Channel Activity in *Xenopus* Oocytes. *Membranes (Basel)*. 2023 Feb 1;13(2):180. doi: 10.3390/membranes13020180.
47. Zangari M, Zabucchi G, Conti M, Lorenzon P, Borelli V, Constanti A, Dellisanti F, Leone S, Vaccari L, Bernareggi A. Effect of Synthetic Vitreous Fiber Exposure on TMEM16A Channels in a *Xenopus laevis* Oocyte Model. *Int J Mol Sci*. 2024 Aug 8;25(16):8661. doi: 10.3390/ijms25168661.
48. Zangari M, Piccirilli F, Vaccari L, Radu C, Zacchi P, Bernareggi A, Leone S, Zabucchi G, Borelli V. Ferritin adsorption onto chrysotile asbestos fibers influences the protein secondary structure. *Heliyon*. 2024 Oct 4;10(20):e38966. doi: 10.1016/j.heliyon.2024.e38966.

CHAPTERS IN EDITED VOLUMES

- G. Zabucchi, **V. Borelli**, M. G. Perrotta, M.R. Soranzo, M. Magnarin, R. Menegazzi, M. Romano, F. Vita : "Eosinophil peroxidase: Structure functions and perspectives", *Recent Res. in Allergy and Clin. Immunol.*, 81: 17-44, 2001.
- G. Zabucchi, **V. Borelli**, F. Vita, M.R. Soranzo: "The Mycobacterium tuberculosis containing phagosome and the anti-Mycobacterium power of macrophages", *Recent. Res. Devel. Allergy and Clin. Immunol* 2: 17-44, 2002.

INTERNATIONAL CONGRESSES, MEETINGS AND ABSTRACTS

- **V. Borelli**, M. Magnarin, F. Vita, E. Nardon, G. Zabucchi, A. Petrucco, P. Bordin, P.G. Da Col, M.Fonda, L. Cattin: "LDL-apheresis decreases adhesion of monocytes to endothelial monolayers", 3rd International Symposium- Multiple risk factors in cardiovascular disease , vascular and organ protection- Firenze 6-9 Luglio 1994.
- **V. Borelli**, F. Vita, M.R. Soranzo, M. Magnarin, P. Bertocin e G. Zabucchi: "Isolamento rapido e caratterizzazione della membrana dei granuli secretori dei granulociti neutrofili umani", XXIII Congresso Nazionale della Società Italiana di Patologia -Milano 23-23 Giugno 1996.
- F. Vita, **V. Borelli**, M.R. Soranzo, P. Bertocin e G. Zabucchi: "Localizzazione subcellulare della GTPasi Rab5a nei granulociti neutrofili umani a riposo e attivati da PMA", XXIII Congresso Nazionale della Società Italiana di Patologia -Milano 23-26 Giugno 1996.
- Zabucchi G, **Borelli V.**, Soranzo M:R.; Perrotta M.G.: Quantitative evaluation of the degranulation process in phagocytizing neutrophils (PMN), XVII European Workshop on the Cell Biology of Phagocytes -Catania, 27-31 Maggio 1998.
- (European Journal of Haematology, vol. 60, n.5, pag. 336, 1998).
- Perrotta M.G., **Borelli V.**, Pausa M., Soranzo M.R. e Zabucchi G.: "Valutazione della degranulazione intrafagosomale in neutrofili umani fagocitanti: influenza della opsonizzazione", XXIV Congresso Nazionale della Società Italiana di Patologia -Siena , 24-27 Giugno 1998.
- Zabucchi G., Perrotta M.G., **Borelli V.** and Soranzo M.R.: "In human neutrophils the extent of intraphagosomal degranulation depends on the particle opsonozation", XXXIII Annual Scientific Meeting of the European Society of Clinical Investigation" -Milano, 8-10 aprile 1999.
- F. Vita, R. Abbate, **V. Borelli**, S. Siracusano, G. Zabucchi: "Inflammatory response in the immunotherapy with BCG of superficial bladder cancer", 40th Annual Meeting of European Society for Clinical Investigation, Prague, Czech Republic, 15-18 March 2006.
- **V. Borelli**, N. Medic, **F. Vita**, G. Zabucchi:" Myelin activates mast cells and neutrophil function: a candidate process in the pathogenesis of demyelinating diseases", 40th Annual Meeting of European Society for Clinical Investigation, Prague, Czech Republic, 15-18 march 2006.

- C. Casarsa, A. Marchioli, **V. Borelli**, E. Trevisan, F. Vita, M. Melato & G. Zabucchi Anti-oxidant power and hydrogen peroxide production of mesothelial cells. 44th Annual Scientific Meeting of the European Society for Clinical Investigation, Bari – Italy, 24 – 27 February 2010
- **V. Borelli**, F. Vita, M.R. Soranzo, C. Casarsa, C. Rizzardi and Giuliano Zabucchi. Mast cells as a new target of asbestos fibres. International Mast Cell and Basophil Meeting (MCBM) will be held in Berlin, December 9-10, 2010.
- Bardelli F., Pacella A, **Borelli V.**, Di Benedetto F., Ballirano P. The composition of asbestos bodies in human lungs. Congress Italian Society of Mineralogy and Petrology (SIMP): Geosciences for a sustainable future. Torino, September 19-21, 2022
- Fabrizio Bardelli, Alessandro Pacella, Carlotta Giacobbe, Francesco Di Benedetto, Giordano Montegrossi, **Violetta Borelli**, and Paolo Ballirano. The composition of asbestos bodies in human lungs. EGU General Assembly 2023, Vienna, Austria 23–28 April 2023