

Curriculum vitae

Simona INGHILLERI

Simona Inghilleri was born in Pisa on 20th august 1972, married with three children.

Education:

- February 2007, PhD in Cell Biology. Thesis title: "Evaluation of the mechanisms involved in the pathogenesis of idiopathic pulmonary fibrosis (IPF) by histochemical and molecular analysis".
- December 2005, Subject Expert and Teaching Assistant of Human Anatomy (scientific sector BIO/6-Human Anatomy) for the Degree Courses of Biological Sciences and Sciences and Technologies for the Environment and Nature.
- November 2001, State examination for the profession of Biologist.
- November 2000, Degree in Biological Sciences at the University of Pavia. Thesis title: "Effects of N-acetylcysteine on the lung parenchyma of rats treated with styrene oxide."

Research experience

- January 2010-present: senior researcher at the Laboratory of Biochemistry and Genetics, Respiratory Diseases, IRCCS Policlinico San Matteo Foundation, Pavia.
- March 2012, Lecturer during the training event ECM 110-23043. Training Project: Campus of the Postgraduate Schools in Respiratory Diseases "Rare Lung Diseases." Role of BAL in disorders of the pulmonary surfactant homeostasis".
- January 2008-December 2009, post-doctoral fellow at the Laboratory of Clinical Respiratory Diseases IRCCS Policlinico San Matteo Foundation, Pavia.
- 2000-2001 and 2007-2009 teacher at educational seminars for the courses of Human Anatomy and Comparative Anatomy, Degree in Biological Sciences and Sciences and Technology for the Environment and Nature, Department of Animal Biology, University of Pavia.
- August 2007-December 2007 post-doctoral fellow at the Laboratory of Biochemistry and Genetics, Respiratory Diseases, IRCCS Policlinico San Matteo Foundation.
- October 2005-October 2006 tutor of the course of Human Anatomy at the Department of Animal Biology of the University of Pavia.
- August 2004-July 2007 PhD-student at the Laboratory of Biochemistry and Genetics, Clinical Respiratory Diseases, IRCCS Policlinico San Matteo Foundation and Department of Animal Biology, University of Pavia. Research title: "Role of oxidative stress and apoptosis in idiopathic pulmonary fibrosis and in an animal model of pulmonary fibrosis by bleomycin. Correlation with the remodeling of the extracellular matrix."
- April 2001-July 2004 research fellow at IRCCS Policlinico San Matteo Foundation, Division of Pneumology. Research title: "Remodeling of the extracellular matrix: clinical-biochemical and morphological correlation in diffuse lung disease."
- 1998-2000, degree internship at the Department of Animal Biology of the University of Pavia.

Technical skills and competences

Good experience in project and team management. Responsible of culture core: cell lines and primary cells; coordinator of experiments investigating toxicity of nanoparticles through apoptosis assay by flow cytometry; proliferation assay by flow cytometry, MTT, ELISA. Microtome (slide and rotary) and cryostat use; immunohistochemistry on criostatic or paraffin-embedded tissue; in situ hybridization; enzyme-histochemistry; DNA extraction from blood, fresh tissue and paraffin-embedded. PCR-RFLP enzymatic digestion of DNA; Agarose gel electrophoresis; analysis of PCR products and digestion. Processing of bronchoalveolar lavage (BAL) and sputum; staining and reading of BAL and sputum cytology. Good experience in project and team management.

Awards

Award of study from the association A.V.A.N.I (Associazione Vittime Amianto Nazionale Italiana) for the study entitled "*m-TOR expression in pleural mesothelioma cell lines*".

Publications

- Di Carlo S, Rossi E, Politano G, Inghilleri S, Morbini P, Calabrese F, Benso A, Savino A, Cova E, Zampieri D, Meloni F. Identification of miRNAs Potentially Involved in Bronchiolitis Obliterans Syndrome: A Computational Study. PLoS One. 2016 Aug 26;11(8): e0161771
- Olivieri C, Bargagli E, Inghilleri S, Campo I, Cintonino M, Rottoli P. Macrophage migration inhibitory factor in lung tissue of idiopathic pulmonary fibrosis patients. Exp Lung Res. 2016 Jun 42(5):263-6
- Stella GM, Senetta R, Inghilleri S, Verdun di Cantogno L, Mantovani C, Piloni D, Scudeller L, Meloni F, Papotti M, Ricardi U, Cassoni P. MET mutations are associated with aggressive and radioresistant brain metastatic non-small-cell lung cancer. Neuro Oncol. 2016 Apr;18(4):598-9.
- Stella GM, Valizia C, Zorzetto M, Inghilleri S, Valentini A, Dore R, Colombo S, Valentino F, Orlandoni G, Morbini P. Unexpected responses to EGFR inhibition in NSCLC. Respir Med Case Rep. 2015 Jun 25;16:32-

- Pignochino Y, Dell'Aglio C, Inghilleri S, Zorzetto M, Basiricò M, Capozzi F, Canta M, Piloni D, Cemmi F, Sangiolo D, Gammaitoni L, Soster M, Marchiò S, Pozzi E, Morbini P, Luisetti M, Aglietta M, Grignani G, Stella GM. The combination of sorafenib and everolimus shows antitumor activity in preclinical models of malignant pleural mesothelioma. *BMC Cancer*. 2015 May 8;15:374.
- Cova E, Colombo M, Inghilleri S, Morosini M, Miserere S, Peñaranda-Avila J, Santini B, Piloni D, Magni S, Gramatica F, Prospero D, Meloni F. Antibody-engineered nanoparticles selectively inhibit mesenchymal cells isolated from patients with chronic lung allograft dysfunction. *Nanomedicine (Lond)*. 2015 Jan;10(1):9-23.
- Stella GM, Inghilleri S, Pignochino Y, Zorzetto M, Oggionni T, Morbini P, Luisetti M. Activation of oncogenic pathways in idiopathic pulmonary fibrosis. *Transl Oncol*. 2014 Oct;7(5):650-5.
- L. Saracino, M. Zorzetto, S. Inghilleri, E. Pozzi, G. M. Stella. Non-neuronal cholinergic system in airways and lung cancer susceptibility. *Transl Lung Cancer Res* 2013;2(4):284-294
- G. M. Stella, R. Scabini, S. Inghilleri, F. Cemmi, S. Corso, E. Pozzi, P. Morbini, A. Valentini, R. Dore, S. Ferrari, M. Luisetti and M. Zorzetto. EGFR and KRAS mutational profiling in fresh non-small cell lung cancer (NSCLC) cells. *J Cancer Res Clin Oncol*. 2013 Aug;139(8):1327-35.
- M. Zorzetto, S. Ferrari, L. Saracino, S. Inghilleri and G M Stella. MET genetic lesions in non-small-cell lung cancer: pharmacological and clinical implications. Targeting MET genetic lesions in NSCLC. *Transl Lung Cancer Res* 2012; 1(3):194-207.
- D.E. Schwed Lustgarten, C. Deshpande, C. Aggarwal, L.C. Wang, V. Saloura, A. Vachani, L.P. Wang, L. Litzky, M. Feldman, J. Creaney, A.K. Nowak, C. Langer, S. Inghilleri, G. Stella, and S.M. Albelda. Thymidylate Synthase and Foyl-Polyglutamate Synthase Are Not Clinically Useful Markers of Response to Pemetrexed in Patients with Malignant Pleural Mesothelioma. *Journal of Thoracic Oncology*. 2013;8:469-477
- G. M. Stella, M. Luisetti, S. Inghilleri, F. Cemmi, R. Scabini, M. Zorzetto, E. Pozzi. Targeting EGFR in non-small-cell lung cancer: Lessons, experiences, strategies. *Respiratory Medicine*. *Respiratory Medicine* 2012 106: 173-183.
- Stella G.M, Cemmi F., Inghilleri S., Zorzetto M., Luisetti M. and Pozzi E. Synchronous Lung Cancers: When Same Histological Types Feature Different Molecular Profiles and Response Phenotypes. *Journal of Cancer* 2011, 2:474-7.
- Morbini P, Inghilleri S, Campo I, Oggionni T, Zorzetto M, Luisetti M. Incomplete expression of epithelial-mesenchymal transition markers in idiopathic pulmonary fibrosis. *Pathol Res Pract*. 2011 Sep 15;207(9):559-67.
- Morbini P, Inghilleri S. Large-Cell Lung Carcinoma With Basaloid Architecture and Neuroendocrine Differentiation: A New Type of Combined Large-Cell Neuroendocrine Carcinoma. *Int J Surg Pathol*. 2011; 19:252-8.
- Inghilleri S., Morbini P., Campo I., Zorzetto M., Oggionni T., Pozzi E., Luisetti M. Factors influencing oxidative imbalance in pulmonary fibrosis: an immunohistochemical study. *Hindawi Publishing Corporation Pulmonary Medicine*. Volume 2011, Article ID 421409, 10 pages.
- T. Oggionni, P. Morbini, S. Inghilleri, G. Palladini, R. Tozzi, P. Vitulo, C. Fenoglio, S. Perlini and E. Pozzi. Time course of matrix metalloproteases and tissue inhibitors in bleomycin-induced pulmonary fibrosis. *Eur J Histochem* (2006) 50:301-309.
- S. Inghilleri, P. Morbini, T. Oggionni, S. Barni, C. Fenoglio. In situ assessment of oxidant and nitrogenic stress in bleomycin pulmonary fibrosis. *Histochem Cell Biol*. (2006) 125:661-669.
- P. Morbini, C. Villa, I. Campo, M. Zorzetto, S. Inghilleri, M. Luisetti. The receptor for advanced glycation end-products and its ligands: a new inflammatory pathway in lung disease? *Mod Pathol*. (2006) 19:1437-45.