

CV Cristina Patuzzo

Research activity and related work experience

Current fields of interest: human genetics, gene expression analyses (by Next Generation Sequencing and/or RealTime RTPCR and single cell analysis), epigenetics (DNA methylation and microRNA analysis) and metagenomics (microbiota studies by NGS).

-March 2009 - Present: Graduated Technician (cat. D2, open-ended contract), University of Verona, (former Dpt of Life and Reproductive Sciences, then Dpt of Neurosciences, Biomedicine and Movement Sciences).

-2006 - March 2009: Fixed-term contract as Graduated Technician, cat. D1, University of Verona, Dpt of Life and Reproductive Sciences.

-2003 - 2005: consecutive Post-Doc fellowships on “Genetics and expression profile of cardiovascular diseases: atherosclerosis and aneurysms” from University of Verona Section of Biology and Genetics, Department of Mother and Child, Biology and Genetics. (Grant by Ministry of Education, University and Research)

-2002: Post-Doc fellowship at University of Verona from Università Cattolica del Sacro Cuore (Roma) – (FIRB project)

-2001-2002: Research Grant “Analysis of genetic polymorphisms in chronic reject after renal transplantation” from University of Verona Section of Biology and Genetics, Department of Mother and Child, Biology and Genetics (Ministry of Education, University and Research)

-2001: Research prize in the Telethon project E.628 for the study of new ADPKD families.

-2000-2001: Research project with ULSS20, ‘Modifier genes of Cystic Fibrosis’.

-1996-2000: PhD on Molecular and Cellular Biology and Pathology (Research fields: genetics of hereditary breast cancer, hereditary pancreatitis and study of complex diseases such asthma).

-1996: stage at International Agency for Research on Cancer (IARC - Lyon, France), Dr Goldgard’s lab for a study on BRCA1 and BRCA2 genes.

-1995: Post graduated Research fellowship on molecules (TNF, CD30, FAS) in hematological pathologies and AIDS. Supervisors: prof G Pizzolo (Section of Hematology, University of Verona) and prof MA Cassatella (Section of Pathology, University of Verona).

-1992 – 1994: dissertation internship and post-lauream internship to apply to professional qualification exam (University of Verona, Section of Pharmacology).

Educational background

February 2000: PhD degree in Molecular and Cellular Biology and Pathology, University of Padova-University of Verona.

March 1995: Professional qualification to practice as a Biologist.

July 1993: Doctoral degree in Biological Sciences, University of Padova.

Journal publications and communications selection

- Shewanella algae and Vibrio spp. strains isolated in Italian aquaculture farms are reservoirs of antibiotic resistant genes that might constitute a risk for human health. Zago V, Veschetti L, **Patuzzo C**, Malerba G, Lleo MM. Mar Pollut Bull. 2020 Mar 12;154:111057.
- Physical Activity Prevents Cartilage Degradation: A Metabolomics Study Pinpoints the Involvement of Vitamin B6. Cells. Deiana M, Malerba G, Dalle Carbonare L, Cheri S, **Patuzzo C**, Tsenov G, Moron Dalla Tor L, Mori A, Saviola G, Zipeto D, Schena F, Mottes M, Valenti MT. 2019 Nov 1;8(11).
- Comparative transcriptome analysis of peripheral blood mononuclear cells in renal transplant recipients in everolimus- and tacrolimus-based immunosuppressive therapy. Granata S, Santoro G, Signorini L, Malerba G, **Patuzzo C**, Gambaro G, Stallone G, Zaza G. Eur J Pharmacol. 2019;859:172494.
- Chiarini A, Onorati F, Marconi M, Pasquali A, **Patuzzo C**, Malashicheva A, Irtyega O, Faggian G, Pignatti PF, Trabetti E, Armato U, Dal Pra I. Studies on sporadic non-syndromic thoracic aortic aneurysms: II. Alterations of extra-cellular matrix components and focal adhesion proteins. Eur J Prev Cardiol. 2018.

- Chiarini A, Onorati F, Marconi M, Pasquali A, **Patuzzo C**, Malashicheva A, Irtyega O, Faggian G, Pignatti PF, Trabetti E, Armato U, Dal Pra I. Studies on sporadic non-syndromic thoracic aortic aneurysms: 1. Deregulation of Jagged/Notch 1 homeostasis and selection of synthetic/secretor phenotype smooth muscle cells. *Eur J Prev Cardiol*. 2018.
- A Preliminary microRNA Analysis of Non Syndromic Thoracic Aortic Aneurysms. **Patuzzo C**, Pasquali A, Malerba G, Trabetti E, Pignatti P, Tessari M, Faggian G. *Balkan J Med Genet*. 2012 Dec;15(Suppl):51-5. doi: 10.2478/v10034-012-0019-6.
- Upregulated expression of Toll-like receptor 4 in peripheral blood of ischaemic stroke patients correlates with cyclooxygenase 2 expression. Ferronato S, Lira MG, Olivato S, Scuro A, Veraldi GF, Romanelli MG, **Patuzzo C**, Malerba G, Pignatti PF, Mazzucco S. *Eur J Vasc Endovasc Surg*. 2011 Mar;41(3):358-63. doi: 10.1016/j.ejvs.2010.11.019. Epub 2011 Jan 13.
- Reconstruction and functional analysis of altered molecular pathways in human atherosclerotic arteries. Cagnin S, Biscuola M, **Patuzzo C**, Trabetti E, Pasquali A, Laveder P, Faggian G, Iafrancesco M, Mazzucco A, Pignatti PF, Lanfranchi G. *BMC Genomics*. 2009 Jan 9;10:13. doi: 10.1186/1471-2164-10-13.
- No linkage or association of five polymorphisms in the interleukin-4 receptor alpha gene with atopic asthma in Italian families. Migliaccio C, **Patuzzo C**, Malerba G, Trabetti E, Galavotti R, Pescollderung L, Boner AL, Pignatti PF. *Eur J Immunogenet*. 2003 Oct;30(5):349-53.
- Cationic trypsinogen and pancreatic secretory trypsin inhibitor gene mutations in neonatal hypertrypsinaemia. **Patuzzo C**, Castellani C, Sagromoso C, Gomez-Lira M, Bonamini D, Belpinati F, Dehecchi MC, Assael BM, Pignatti PF. *Eur J Hum Genet*. 2003 Jan;11(1):93-6.
- CFTR and cationic trypsinogen mutations in idiopathic pancreatitis and neonatal hypertrypsinemia. Gomez Lira M, **Patuzzo C**, Castellani C, Bovo P, Cavallini G, Mastella G, Pignatti PF. *Pancreatology*. 2001;1(5):538-42.
- Chromosome 14 linkage analysis and mutation study of 2 serpin genes in allergic asthmatic families. Malerba G, **Patuzzo C**, Trabetti E, Lauciello MC, Galavotti R, Pescollderung L, Whalen MB, Zanoni G, Martinati LC, Boner AL, Pignatti PF. *J Allergy Clin Immunol*. 2001 Apr;107(4):654-8.
- No linkage or association of the IL-4Ralpha gene Q576R mutation with atopic asthma in Italian families. **Patuzzo C**, Trabetti E, Malerba G, Martinati LC, Boner AL, Pescollderung L, Zanoni G, Pignatti PF. *J Med Genet*. 2000 May;37(5):382-4.
- Tumor necrosis factor gene complex in COPD and disseminated bronchiectasis. **Patuzzo C**, Gilè LS, Zorzetto M, Trabetti E, Malerba G, Pignatti PF, Luisetti M. *Chest*. 2000 May;117(5):1353-8.
- Candidate genes and a genome-wide search in Italian families with atopic asthmatic children. Malerba G, Trabetti E, **Patuzzo C**, Lauciello MC, Galavotti R, Pescollderung L, Boner AL, Pignatti PF. *Clin Exp Allergy*. 1999 Dec;29 Suppl 4:27-30.
- Association of a lymphotoxin alpha gene polymorphism and atopy in Italian families. Trabetti E, **Patuzzo C**, Malerba G, Galavotti R, Martinati LC, Boner AL, Pignatti PF. *J Med Genet*. 1999 Apr;36(4):323-5.
- Preferential release of high amounts of interleukin-8 by myeloid blasts showing monocytic differentiation. Vinante F, Rigo A, Tecchio C, **Patuzzo C**, Ricetti MM, Morosato L, Cassatella MA, Chilosi M, Pizzolo G. *Haematologica*. 1996 May-Jun;81(3):195-200.
- Genome methylation profile of human blood cells by Next Generation Sequencing. M. Deiana, **C. Patuzzo**, A. Sangalli, G. Malerba. Summer School 2017, 2-6 October Verona
- HDAC9 gene is overexpressed in stroke patients S. Ferronato, S. Olivato, A. Scuro, **C. Patuzzo**, S. Mazzucco, M. Gomez Lira. European Human Genetics Conference 2014 (May31 – June 3, 2014 Milan, Italy). *European Journal of Human Genetics*, May 2014

- A Preliminary microRNA Analysis of Non Syndromic Thoracic Aortic Aneurysms. **Patuzzo C**, Pasquali A, Malerba G, Trabetti E, Pignatti P, Tessari M, Faggian G MACPROGEN Final Conference. 29 March-01 April 2012, Ohrid, Republic of Macedonia