

**CURRICULUM VITAE**

NAME	RUOLO
Claudio Sorio	Professore Associato

Nato a Verona il 21 settembre, 1962. Nazionalità: Italiana

**EDUCAZIONE**

ISTITUZIONE E LUOGO	TITOLO	ANNI	CAMPO
Università di Verona	Medicina e chirurgia	1982-1988	Medicina
Università di Verona	Dottorato di ricerca	1990-1994	Biologia e patologia molecolare e cellulare
Università di Verona	Specializzazione	1994-1998	Anatomia Patologica

**Attività**

1989-1990:	Sottotenente medico responsabile del servizio sanitario del presidio militare di Verona
1992-1995:	Ricercatore a contratto: Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, U.S.A.
1991-1998:	Ricercatore in visita (2 mesi) all'EMBL, Heidelberg (Dr. Sara Courtneidge lab, 1991) e Ulm University (Prof. Thomas Gress, 16-07-2008 fino a 26-08-2008)
1998-present	Ricercatore Universitario a TI, diversi soggiorni presso Diamond Light Source (Didcot, UK), National Center for Cancer Care & Research (NCCCR) Doha, Qatar, University of Minnesota, (USA).
2012-present	Responsabile designato dei laboratori di "Biomarcatori", "Ricerca traslazionale in Fibrosi Cistica" presso il Dipartimento di Medicina ( <a href="http://www.cfcverona.it/LabRicTras.html">http://www.cfcverona.it/LabRicTras.html</a> )
2014	Nominato Faculty Member (Visiting Professor) al Department of Biochemistry and Cell Biology, University of Minnesota (U.S.A.)
2017	ASN I fascia nei SC 06A2 (Patologia generale e Patologia clinica) e 06N1 (Scienze delle professioni sanitarie e delle tecnologie mediche applicate)
2018	Professore Associato (SC 06/A2, SSD MED04)

**Campo di ricerca**

Biomarcatori in oncologia e in fibrosi cistica. Caratterizzazione biochimica e funzionale del gene oncosoppressore PTPRG e del prodotto del gene CFTR.

**Pubblicazioni**

**Autore di 77 pubblicazioni presenti enlla banca dati Pubmed. Impact factor (riferito all'anno di pubblicazione): 390, media IF: 5,42. Citazioni: 2023, h index 22 (Scopus) a gennaio 2018**

- Berton, G., Sorio, C., Laudanna, C., Menegazzi, M., Carcereri De Prati, A., and Suzuki, H. (1991) Activation of human monocyte-derived macrophages by interferon gamma is accompanied by increase of poly(ADP-ribose) polymerase activity. *Biochim Biophys Acta, Molecular Cell Research*, Volume 1091, Issue 1, 101-109 WOS:A1991EU69000016. IF 2002: 3,016
- Poli, G., Sorio, C., and Berton, G. (1991) Protein myristoylation in human mononuclear phagocytes: modulation by interferon-gamma and tumor necrosis factor-alpha. *J Cell Sci* 100 ( Pt 4), 833-840 WOS:A1991GY16700018 IF 2002: 6,954
- Amezaga, M. A., Bazzoni, F., Sorio, C., Rossi, F., and Cassatella, M. A. (1992) Evidence for the involvement of distinct signal transduction pathways in the regulation of constitutive and interferon gamma-dependent gene expression of NADPH oxidase components (gp91-phox, p47-phox, and p22-phox) and high-affinity receptor for IgG (Fc gamma R-1) in human polymorphonuclear leukocytes. *Blood* 79, 735-744 WOS:A1992HB53300026 IF 2002: 9,631
- Berton, G., Laudanna, C., Sorio, C., and Rossi, F. (1992) Generation of signals activating neutrophil functions by leukocyte integrins: LFA-1 and gp150/95, but not CR3, are able to stimulate the respiratory burst of human neutrophils. *J Cell Biol* 116, 1007-1017 WOS:A1992HD55000016 IF 2002: 12,522
- Botto, M., Lissandrini, D., Sorio, C., and Walport, M. J. (1992) Biosynthesis and secretion of complement component (C3) by activated human polymorphonuclear leukocytes. *J Immunology* 149, 1348-1355 WOS:A1992JJ09200035 IF 2002: 7,014
- Cassatella, M. A., Trinchieri, G., Hassan, N. F., Hartman, L., Sorio, C., and Berton, G. (1992) Induction of differentiation of the human myeloid cell line, ML3, by tumour necrosis factor and interferon-gamma is accompanied by

- enhanced expression of the CD4 protein and messenger RNA. *Immunology* 76, 55-59 WOS:A1992HV85200010 IF 2002: 2,729
7. Vinante, F., Pizzolo, G., Rigo, A., Vincenzi, C., Sorio, C., Cassatella, M., and Berton, G. (1992) The CD4 molecule belongs to the phenotypic repertoire of most cases of acute myeloid leukemia. *Leukemia* 6, 1257-1262 WOS:A1992KD21100005 IF 2002: 4,693
  8. Saggiaro, D., Sorio, C., Calderazzo, F., Callegaro, L., Panozzo, M., Berton, G., and Chieco-Bianchi, L. (1993) Mechanism of action of the monosialoganglioside GM1 as a modulator of CD4 expression. Evidence that GM1-CD4 interaction triggers dissociation of p56lck from CD4, and CD4 internalization and degradation. *J Biol Chem* 268, 1368-1375 WOS:A1993KG07700091 IF 2002: 6,696
  9. Sorio, C., Melotti, P., Dusi, S., and Berton, G. (1993) Interferon-gamma and tumor necrosis factor-alpha enhance p60src expression in human macrophages and myelomonocytic cell lines. *FEBS Lett* 327, 315-320 WOS:A1993LQ22900016 IF 2002: 3,912
  10. Sorio, C., Saggiaro, D., Chieco-Bianchi, L., and Berton, G. (1993) The monosialoganglioside GM1 induces internalisation and degradation of the CD4 antigen in U937 cells: evidence for a novel mechanism of CD4 down-modulation in a p56lck-negative cell line, which is independent of protein kinase C activation. *Biochem Biophys Res Commun* 191, 1105-1110 WOS:A1993KV40500048 IF 2002: 2,935
  11. Berton, G., Fumagalli, L., Laudanna, C., and Sorio, C. (1994) Beta 2 integrin-dependent protein tyrosine phosphorylation and activation of the FGR protein tyrosine kinase in human neutrophils. *J Cell Biol* 126, 1111-1121 WOS:A1994PB31800025 IF 2002: 12,522
  12. Prasad, R., Yano, T., Sorio, C., Nakamura, T., Rallapalli, R., Gu, Y., Leshkowitz, D., Croce, C. M., and Canaani, E. (1995) Domains with transcriptional regulatory activity within the ALL1 and AF4 proteins involved in acute leukemia. *Proc Natl Acad Sci U S A* 92, 12160-12164 WOS:A1995TL42100045 IF 2002: 10,7
  13. Sorio, C., Mendrola, J., Lou, Z., LaForgia, S., Croce, C. M., and Huebner, K. (1995) Characterization of the receptor protein tyrosine phosphatase gene product PTP gamma: binding and activation by triphosphorylated nucleosides. *Cancer Res* 55, 4855-4864 WOS:A1995TC46800025 IF 2002: 8,318
  14. Chilosi, M., Facchetti, F., Dei Tos, A. P., Lestani, M., Morassi, M. L., Martignoni, G., Sorio, C., Benedetti, A., Morelli, L., Doglioni, C., Barberis, M., Menestrina, F., and Viale, G. (1997) bcl-2 expression in pleural and extrapleural solitary fibrous tumours. *J Pathol* 181, 362-367 WOS:A1997WZ38200004 IF 2002: 4,563
  15. Ennas, M. G., Sorio, C., Greim, R., Nieddu, M., Scarpa, A., Orlandini, S., Croce, C. M., Fey, G. H., and Marschalek, R. (1997) The human ALL-1/MLL/HRX antigen is predominantly localized in the nucleus of resting and proliferating peripheral blood mononuclear cells. *Cancer Res* 57, 2035-2041 WOS:A1997WZ21600036 IF 2002: 8,318
  16. Sorio, C., Melotti, P., D'Arcangelo, D., Mendrola, J., Calabretta, B., Croce, C. M., and Huebner, K. (1997) Receptor protein tyrosine phosphatase gamma, Ptp gamma, regulates hematopoietic differentiation. *Blood* 90, 49-57 WOS:A1997XH42800007 IF 2002: 9,631
  17. Yano, T., Nakamura, T., Blechman, J., Sorio, C., Dang, C. V., Geiger, B., and Canaani, E. (1997) Nuclear punctate distribution of ALL-1 is conferred by distinct elements at the N terminus of the protein. *Proc Natl Acad Sci U S A* 94, 7286-7291 WOS:A1997XJ87600031 IF 2002:10,7
  18. Chilosi, M., Doglioni, C., Yan, Z., Lestani, M., Menestrina, F., Sorio, C., Benedetti, A., Vinante, F., Pizzolo, G., and Inghirami, G. (1998) Differential expression of cyclin-dependent kinase 6 in cortical thymocytes and T-cell lymphoblastic lymphoma/leukemia. *Am J Pathol* 152, 209-217 WOS:000071439200023 IF 2002: 6,75
  19. Sorio, C., Baron, A., Orlandini, S., Zamboni, G., Pederzoli, P., Huebner, K., and Scarpa, A. (1999) The FHIT gene is expressed in pancreatic ductular cells and is altered in pancreatic cancers. *Cancer Res* 59, 1308-1314 WOS:000079125200024 IF 2002: 8,318
  20. Cattaneo, M., Sorio, C., Malferrari, G., Rogozin, I. B., Bernard, L., Scarpa, A., Zollo, M., and Biunno, I. (2001) Cloning and functional analysis of SEL1L promoter region, a pancreas-specific gene. *DNA Cell Biol* 20, 1-9 DOI: 10.1089/10445490150504648; WOS:000166799500001; Scopus: 2-s2.0-0035139244 IF 2002: 1,771
  21. Moore, P. S., Sipos, B., Orlandini, S., Sorio, C., Real, F. X., Lemoine, N. R., Gress, T., Bassi, C., Kloppel, G., Kalthoff, H., Ungefroren, H., Lohr, M., and Scarpa, A. (2001) Genetic profile of 22 pancreatic carcinoma cell lines. Analysis of K-ras, p53, p16 and DPC4/Smad4. *Virchows Arch* 439, 798-802 WOS:000173037600009 IF 2002: 2,045
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  23. Wallrapp, C., Hahnel, S., Boeck, W., Soder, A., Mincheva, A., Lichter, P., Leder, G., Gansauge, F., Sorio, C., Scarpa, A., and Gress, T. M. (2001) Loss of the Y chromosome is a frequent chromosomal imbalance in pancreatic cancer and allows differentiation to chronic pancreatitis. *Int J Cancer* 91, 340-344 DOI: 10.1002/1097-0215(200002)9999:9999<::AID-IJC1014>3.0.CO;2-U; WOS:000166159300011; Scopus: 2-s2.0-0035255011 IF 2002: 4,056
  24. Marcucci, S., Bonora, A., Falconi, M., Sorio, C., Orlandini, S., Beghelli, S., Cristofori, P., Dal Negro, G., Marchiori, P. N., Bassi, C., Scarpa, A., and Pederzoli, P. (2002) [Integrated project for the translational research on pancreatic ductal carcinoma]. *Chir Ital* 54, 845-854 Scopus 16744367417
  25. Cattaneo, M., Orlandini, S., Beghelli, S., Moore, P. S., Sorio, C., Bonora, A., Bassi, C., Talamini, G., Zamboni, G., Orlandi, R., Menard, S., Bernardi, L. R., Biunno, I., and Scarpa, A. (2003) SEL1L expression in pancreatic adenocarcinoma

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26. Laudanna, C., Sorio, C., Tecchio, C., Butcher, E. C., Bonora, A., Bassi, C., and Scarpa, A. (2003) Motility analysis of pancreatic adenocarcinoma cells reveals a role for the atypical zeta isoform of protein kinase C in cancer cell movement. *Lab Invest* 83, 1155-1163 DOI: 10.1097/01.LAB.0000081390.92179.F3; WOS:000184887300006; Scopus: 2-s2.0-0041469735 IF: 4,418
27. Liu, S., Sugimoto, Y., Sorio, C., Tecchio, C., and Lin, Y. C. (2004) Function analysis of estrogenically regulated protein tyrosine phosphatase gamma (PTPgamma) in human breast cancer cell line MCF-7. *Oncogene* 23, 1256-1262 WOS:000188892200010 IF: 6,318
28. Sorio, C., Moore, P. S., Ennas, M. G., Tecchio, C., Bonora, A., Sartoris, S., Balzarini, P., Grigolato, P., and Scarpa, A. (2004) A novel cell line and xenograft model of ampulla of Vater adenocarcinoma. *Virchows Arch* 444, 269-277 WOS:000220206000009 IF: 2,227
29. Mauri, P., Scarpa, A., Nascimbeni, A. C., Benazzi, L., Parmagnani, E., Mafficini, A., Della Peruta, M., Bassi, C., Miyazaki, K., and Sorio, C. (2005) Identification of proteins released by pancreatic cancer cells by multidimensional protein identification technology: a strategy for identification of novel cancer markers. *Faseb J* 19, 1125-1127 WOS:000229602600020 IF: 7,064
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32. Lissandrini D., Vermi W., Vezzalini M., Sozzani, S., Facchetti, F., Bellone, G., Mafficini, A, Gentili, F., Ennas, M.G. Tecchio, C., and Sorio, C., (2006) Receptor Type Tyrosine Phosphatase Gamma (PTPg), a new identifier for myeloid dendritic cells and specialized macrophages, *Blood*, 108 , 4223-4231. DOI: 10.1182/blood-2006-05-024257 WOS:000242675300045; Scopus: 2-s2.0-33845495816 IF: 10,37
33. Bellone, G., Carbone, A., Smirne, C, Scirelli, T., Buffolino, A., Novarino, A., Stacchini, A., Bertetto, O., Palestro, G., Sorio, C., Scarpa, A., Emanuelli, G., Rodeck, U. (2006) Cooperative induction of a tolerogenic dendritic cell phenotype by cytokines secreted by pancreatic carcinoma cells, *J. Immunology*, Sep 1;177(5):3448-60. WOS:000240002800083 IF: 6,293
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35. Saraga, G., Mafficini, A. Ghaneh, P., Sorio, C., and Costello, E. (2007), Both HIV- and EIAV-based lentiviral vectors mediate gene delivery to pancreatic cancer cells and human pancreatic primary patient xenografts. *CANCER GENE THERAPY* Volume: 14 Issue: 9 Pages: 781-790 DOI: 10.1038/sj.cgt.7701066 WOS:000248801600003 IF: 3,889
36. Mafficini, A., Vezzalini, M., Zamai, L., Bergamini, G., Della Peruta, M., Melotti, P., and Sorio, C. (2007), Protein tyrosine phosphatase gamma (PTPγ) is a novel leukocyte marker highly expressed by CD34+ precursors, *Biomarker Insights*, 2, 217–224; Scopus: 2-s2.0-33947698314; PMID: PMC2717823
37. Bergamini, G.\*, Cigana, C\*, Sorio, C, Della Peruta, M., Pompella, A., Corti, A., Huaux, F.A., Leal, T., Assael, B.M., Melotti, P. Effects of Azithromycin on Glutathione S-Transferases in Cystic Fibrosis Airway Cells. *Am J Respir Cell Mol Biol*. 2009 Aug;41(2):199-206. Epub 2008 Dec 18. DOI: 10.1165/rcmb.2008-0013OC, WOS:000268609500011, Scopus 2-s2.0-67651155937 IF: 4,319
38. Claudio Sorio and Paola Melotti, "The role of macrophages and their scavenger receptors in cystic fibrosis" 2009 *J Leukoc Biol* Sep;86(3):465-8 WOS:000269377200002, Scopus 2-s2.0-70149111492 IF: 4.403
39. Vladia Monsurrò, Stefania Beghelli, Richard Wang, Stefano Barbi, Silvia Coin, Giovanni Di Pasquale, Samantha Bersani, Monica Castellucci, Claudio Sorio, Stefano Eleuteri, Andrea Worschech, Jay A. Chiorini, Paolo Pederzoli, Harvey Alter, Francesco M. Marincola, Aldo Scarpa: Anti-viral state segregates two molecular phenotypes of pancreatic adenocarcinoma: potential relevance for adenoviral gene therapy, *J Transl Med*. 2010 Jan 29;8(1):10 WOS:000275960000001, Scopus 77649309015 IF: 3,508
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41. Vezzalini, M. Aletta, J.M., Beghelli, S., Moratti, E., Della Peruta, M., Mafficini, A., Mojica, W. D., Mombello, A., Scarpa, A. and Sorio, C. (2010) Immunohistochemical detection of arginine methylated proteins (MeRP) in archival tissues, *Histopathology*, (2010) 57, 725–733. WOS:000284320300008 IF: 3,569
42. Marco Della Peruta, Giovanni Martinelli, Maria Monne, Davide Pintani, Tiziana Grafone, Ilaria Iacobucci, Marco Murineddu, Fabrizio Vinante, Cristina Tecchio, Marzia Vezzalini, Giovanna Piras, Attilio Gabbas, Andrea Mafficini and Claudio Sorio Protein Tyrosine Phosphatase Receptor Type gamma Is a Functional Tumor Suppressor Gene Specifically Downregulated in Chronic Myeloid Leukemia (2010) *Cancer Res*; 70(21); 8896-906 DOI: 10.1158/0008-5472.CAN-10-0258; WOS:000283667300066; Scopus: 2-s2.0-78449284644 IF: 8,234
43. Giuseppe Bellisola, Marco Della Peruta, Marzia Vezzalini, Elisabetta Moratti, Lisa Vaccari, Giovanni Birarda, Massimo Piccinini, Gianfelice Cinque and Claudio Sorio (2010) Tracking InfraRed signatures of drugs in cancer cells by Fourier Transform microspectroscopy (microFTIR), *Analyst*, 2010, 135 (12), 3077 – 3086 WOS:000284265700010 IF: 3,913

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45. Ishita Chatterjee, Joseph O. Humtsoe, Erin E. Kohler, Claudio Sorio and Kishore K. Wary (2011) Lipid Phosphate Phosphatase-3 (LPP3) Knockdown Reduces Tumor Growth by Dampening b-Catenin and CYCLIN-D1 Activities, *Molecular Cancer*, 10:51 DOI: 10.1186/1476-4598-10-51 WOS:000291603400001, Scopus 79955717052 IF: 3,993
46. Claudio Sorio, Mario Buffelli, Chiara Angiari, Michele Ettore, Jan Johansson, Marzia Vezzalini, Laura Viviani, Mario Ricciardi, Genny Verzè, Baroukh Maurice Assael, Paola Melotti (2011) Defective CFTR Expression and Function Are Detectable in Blood Monocytes: Development of a New Blood Test for Cystic Fibrosis, *PLoS One*. 2011;6(7):e22212. Epub 2011 Jul 21. DOI: 10.1371/journal.pone.0022212; WOS:000292956800033 IF: 4,092
47. Claudio Sorio, Andrea Mafficini, Federico Furlan, Stefano Barbi, Antonio Bonora, Giorgio Brocco, Francesco Blasi, Claudio Bassi and Aldo Scarpa (2011) Elevated urinary levels of urokinase-type plasminogen activator receptor (uPAR) in pancreatic ductal adenocarcinoma identify a clinically high-risk group. *BMC Cancer*, *BMC Cancer*, 11:448. WOS:000296872500001 IF: 3,011
48. Giuseppe Bellisola and Claudio Sorio InfraRed Spectroscopy and Microscopy in Cancer Research *Am J Cancer Res*. 2012;2(1):1-21. Epub 2011 Nov 22. IF: 3,968
49. Gabriella Bergamini, Dario Di Silvestre, Pierluigi Mauri, Cristina Cigana, Alessandra Bragonzi, Antonella De Palma, Louise Benazzi, Baroukh Maurice Assael, Paola Melotti and Claudio Sorio MudPIT analysis of released proteins in *Pseudomonas aeruginosa* laboratory and clinical strains in relation to pro-inflammatory effects, *Integr. Biol.*, 2012, Mar;4(3):270-9 DOI: 10.1039/C2IB00127F WOS:000300827100003, scopus 84863565788 IF: 3,996
50. Galli F, Battistoni A, Gambari R, Pompella A, Bragonzi A, Pilolli F, Iuliano L, Piroddi M, Dehecchi MC, Cabrini G, Bragonzi A, Bravo E, Cabrini G, Conese G, Cuzzocrea S, Dehecchi MC, De Alesandri A, Evangelista V, Lambiase A, Lucidi V, Manca A, Melotti P, Minicucci L, Motta A, Pietraforte D, Pompella A, Quattrucci S, Rizzo R, Romano M, Sorio C, Tesse R. (Working Group on Inflammation in Cystic Fibrosis). Oxidative stress and antioxidant therapy in cystic fibrosis. *Biochim Biophys Acta. Molecular Basis of Disease*, 2012 May;1822(5):690-713. Epub 2011 Dec 28. Review. IF: 5,089
51. Giuseppe Bellisola, Gianfelice Cinque, Marzia Vezzalini, Elisabetta Moratti, Giovannino Silvestri, Sara Redaelli, Carlo Gambacorti Passerini, Katia Wehbe and Claudio Sorio (2013) Rapid recognition of drug-resistance/sensitivity in leukemic cells by Fourier transform InfraRed microspectroscopy and unsupervised Hierarchical Cluster Analysis. *Analyst*, 2013, 138 (14), 3934 - 3945, DOI: 10.1039/C2AN36393C WOS:000320466200010; Scopus: 2-s2.0-84891674000 IF: 3,906
52. Claudio Sorio, Chiara Angiari, Jan Johansson, Genny Verzè, Michele Ettore, Mario Buffelli, Carlo Castellani, Baroukh Maurice Assael, Paola Melotti, Impaired Cystic Fibrosis Transmembrane Conductance Regulator function in mild cystic fibrosis associated with the S977F/T5TG12 complex allele. (2013) Dec;12(6):821-5 *Journal of Cystic Fibrosis*, <http://dx.doi.org/10.1016/j.jcf.2012.12.014> Scopus 84872685138 IF: 3,82
53. Erika Lorenzetto, Elisabetta Moratti, Marzia Vezzalini, Sheila Harroch, Claudio Sorio and Mario Buffelli. (2014). Distribution of different isoforms of receptor protein tyrosine phosphatase gamma (Ptp $\gamma$ -RPTP gamma) in adult mouse brain: upregulation during neuroinflammation. *Brain Struct Funct*, 219(3), 875-890. doi: 10.1007/s00429-013-0541-7 IF: 5,618
54. Giuseppe Bellisola, Sara Caldreer, Gianfelice Cinque, Mariangela Cestelli Guidi, Baroukh Maurice Assael, Paola Melotti and Claudio Sorio: The identification of cystic fibrosis (CF) cells and their pharmacological correction by mid-InfraRed microspectroscopy and unsupervised data analysis methods. *Science Letters* 2014, 3: 51.
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- \*shared senior authorship
58. Galvan A, Colombo F, Frullanti E, Dassano A, Noci S, Wang Y, Eisen T, Matakidou A, Tomasello L, Vezzalini M, Sorio C, Dugo M, Ambrogi F, Iacobucci I, Martinelli G, Incarbone M, Alloisio M, Nosotti M, Tosi D, Santambrogio L, Pelosi G, Pastorino U, Houlston RS, Dragani TA. Germline polymorphisms and survival of lung adenocarcinoma patients: A genome-wide study in two European patient series. *Int J Cancer*. Volume 136, Issue 5, pages 262–271, 1 March 2015, published online 2014 Sep 6. doi: 10.1002/ijc.29195. [Epub ahead of print] IF: 5,531
59. Paola Melotti, Andrea Mafficini, Patrick Lebecque, Myriam Ortombina, Teresinha Leal, Emily Pintani, Xavier Pepermans, Claudio Sorio and Baroukh Maurice Assael Impact of MIF gene promoter polymorphism on F508del cystic fibrosis patients *PLoS One*. 2014 Dec 12;9(12):e114274. doi: 10.1371/journal.pone.0114274. eCollection 2014. IF: 3,234

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1. A SIMPLE METHOD TO MEASURE CFTR-DEPENDENT IODINE TRANSPORT IN PERIPHERAL BLOOD MONONUCLEAR CELLS: HS-YFP ASSAY

Sorio, Claudio

By: Averna, M.; Vercellone, S.; Pedrazzi, M.; et al.

PEDIATRIC PULMONOLOGY Volume: 52 Supplement: 47 Pages: S324-S324 Meeting Abstract: 289

Published: SEP 2017

2. Further Insights into the Hematological Disorders Observed in Shwachman-Diamond Syndrome: mTOR and STAT3 Hyper-Phosphorylation in CD4+and CD8+T Cells and Efficacy of Rapamycin Treatment  
By: Bezzerri, Valentino; Vella, Antonio; Meneghelli, Ilaria; et al.  
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3. Validation of chronic lung infection with P.aeruginosa for characterization of novel MvfR inhibitors  
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35. Sorio, C., A. Bonora, S. Orlandini, P. S. Moore, P. Capelli, G. Zamboni, P. Cristofori, G. Dal Negro, P. Marchiori, G. Gaviraghi, M. Falconi, P. Pederzoli and A. Scarpa (2000). Establishment of a cryopreserved tissue bank and a xenografting facility for pancreatic cancer. *Molecular Pathogenesis of Pancreatic Cancer*. T. M. Gress. 41: 45-48. WOS:000167335300008; ISBN: 1-58603-040-X
36. Wallrapp, C., S. Haehnel, A. Soder, P. Lichter, G. Leder, C. Sorio, A. Scarpa and T. M. Gress (2000). "Loss of the Y chromosome is one of the most frequent chromosomal imbalances in pancreatic cancer." *Gastroenterology* 118(4): A61-A61. WOS:000086783700246; ISSN: 0016-5085

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37. Wallrapp, C., S. Hahnel, C. Sorio, A. Scarpa and T. M. Gress (2000). Genomic RDA for the identification of chromosomal aberrations in pancreatic cancer: merits and drawbacks. *Molecular Pathogenesis of Pancreatic Cancer*. T. M. Gress. 41: 19-22. WOS:000167335300008; ISBN: 1-58603-040-X

**Brevetti**

NOVEL BIOMARKERS FOR DIAGNOSIS AND/OR PROGNOSIS OF NEOPLASIAS IN ANIMALS

Application number: 20090130693 Issued: May 21, 2009

Inventors: Claudio Bassi, Pierluigi Mauri, Aldo Scarpa, Claudio Sorio

ANTIBODY AND METHOD FOR IDENTIFICATION OF DENDRITIC CELLS

20090131346 Issued: May 21, 2009

Assignee: CONSORZIO PER GLI STUDI UNIVERSITARI IN VERONA

Inventor: Claudio Sorio

DIAGNOSIS, PROGNOSIS AND/OR TREATMENT OF MYELOPROLIFERATIVE DISORDERS

Application number: WO2007085958 (A2), EP1987157 (A2)

Assignee: CONSORZIO PER GLI STUDI UNIVERSITARI IN VERONA

Inventors: Claudio Sorio

MONOCLONAL ANTIBODY FOR DIAGNOSING CHRONIC MYELOID LEUKEMIA

Provisional US patent application number: 62373322 filed on 10 August 2016

Assignee: Qatar Foundation

Inventors: Claudio Sorio: 40%; Dr. Nader Al-Dewik: 20%, Dr. Abdel Daem Mohamed Yassin: 20%, Dr. Marzia Vezzalini: 10%, Dr. Andrea Mafficini: 10%

Tampone di lisi per cellule e suoi usi in saggi per la rilevazione di una proteina cellulare o dell'attività di una proteina cellulare.

Lysis buffer for cells and uses for analysis of cell proteins or protein activity

Provisional ITALIAN patent application number: 102017000003916 filed on January, 16<sup>th</sup> 2017

Inventors: Claudio Sorio, Marzia Vezzalini

### C. Finanziamenti

Titolo: Ruolo della tirosin fosfatasi recettoriale gamma (PTPRG) sulla differenziazione emopoietica ed in cellule leucemiche, cellule staminali emopoietiche e fattori di crescita

Agenzia: AIRC  
Durata: 1996-1999  
Importo: 31000 €  
Role: P.I.

Titolo: Identificazione dei meccanismi molecolari che regolano la differenziazione di cellule leucemiche da parte di agenti chemioterapici e PTPRG tramite l'analisi del proteoma

Agenzia: Consorzio Studi Universitari  
Durata: 2001-2002  
Importo: 7750 €  
Role: P.I.

Titolo: La tirosin fosfatasi recettoriale gamma nel sistema emopoietico normale e nelle neoplasie emolinfopoietiche

Agenzia: Fondazione Cariverona  
Durata: 2003-2005  
Importo: 52624 €  
Role: P.I.

Titolo: PTPRG as a novel tumor suppressor gene in chronic myeloid leukemia and its clinical implications

Agenzia: AIRC-IG 4667  
Durata: 2008-2011  
Importo: 150.000 €  
Role: P.I.

Titolo: Effects of azithromycin (AZM) on Pseudomonas-induced chronic lung inflammation in cystic fibrosis

Agenzia: Italian Cystic Fibrosis Research Foundation (FFC#15/2008)  
Durata: 2008-2010  
Importo: 55000 €  
Role: Partner

Title of funded proposal: Functional evaluation of CFTR in blood leukocytes in human subjects as a new tool for diagnostic and clinical research applications

Agenzia: Italian Cystic Fibrosis Research Foundation (FFC #5/2009)  
Durata: 2009-2011  
Importo: 45000 €  
Role: P.I.

Titolo: Novel biomarkers for evaluation of efficacy of new therapies in cystic fibrosis

Agenzia: Italian Cystic Fibrosis Research Foundation (FFC #6/2010)  
Durata: 2010-2012  
Importo: 55000 €  
Role: Partner

Titolo: CFTR activity and expression in monocytes of CF patients: possible tools for diagnosis and drug development

Agenzia: Mucoviscidose : ABCF (France)  
Durata: 2011  
Importo: 30.000 €  
Role: Partner

Titolo: Development of new antibodies for diagnostic application in chronic myeloid leukemia

Agenzia: University of Verona-Joint Project  
Durata: 2009-2011  
Importo: 45000 €  
Role: P.I.

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Titolo: Testing human monocytes as a new tool for clinical and preclinical research in CF  
Agenzia: Italian Cystic Fibrosis Research Foundation (FFC #26-2011)  
Durata: 2011-2013  
Importo: 70000 €  
Role: P.I.

Titolo: PTPRG in health and disease  
Agenzia: MIUR-F.U.R.  
Durata: 2010-2011  
Importo: 17000 €  
Role: P.I.

Titolo: Role of Protein Tyrosine Phosphatase Gamma (PTPRG) in the pathogenesis of chronic myeloid leukemia (CML) and its evaluation as a new biomarker of disease  
Agenzia: Qatar National Research Fund: NPRP 4-157-3-052  
Durata: 2013-2016  
Importo: 1.004.915,00 USD  
Role: P.I.

Titolo: Establishment of a semi-automated evaluation of CFTR function in blood cells for clinical applications  
Agenzia: Italian Cystic Fibrosis Research Foundation (FFC #06-2013)  
Durata: 2013-2014  
Importo: 40000 €  
Role: P.I.

Titolo: Testing CFTR repair in cystic fibrosis patients carrying nonsense and channel gating mutations  
Agenzia: Italian Cystic Fibrosis Research Foundation (FFC #29-2015)  
Durata: 2015-2017  
Importo: 50000 €  
Role: P.I.

Titolo: Monitoring tyrosine kinase inhibitors efficacy in chronic myeloid leukemia  
Agenzia: University of Verona-Joint Project  
Durata: 2016-2018  
Importo: 46000 €  
Role: P.I.

Titolo: LeukoPredict  
Agenzia: EU proposal 711286 –SME instrument-phase 1  
Durata: 2016-2017  
Importo: 50000 €  
Role: Partner-project proponent

**Finanziamenti:** Accesso ad infrastrutture di ricerca (su base competitiva)

EU FP7 Transnational Access to Research Infrastructures (TARI)  
European Light Sources Activities (ELISA) EC contract N. 226716  
Elettra Synchrotron Trieste 2009 - 2010  
Experiment 2008232. Detection of drug-induced signatures in normal and in tumor cells by Fourier Transform InfraRed Microspectroscopy (FTIRM).  
Experiment 20095114. Fourier Transform InfraRed microscopic analysis of single leukaemic cell.  
Role: Partner.

EU FP7 Transnational Access to Research Infrastructures (TARI)  
European Light Sources Activities (ELISA) EC contract N. 226716  
DLS Diamond Light Source UK 2010 - 2011

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Experiment SM 4333-1. Detecting drug effects by Fourier Transform InfraRed microspectroscopy (microFT-IR) on single cells.

Experiment SM6675-1. Testing drug resistance/sensitivity in cancer cell lines by Fourier Transform InfraRed microspectroscopy (microFTIR) and unsupervised pattern recognition.

Role: partner

Period: 06/07/2013 to 31/12/2013

Proposal 20130055 - Type: Standard

SMIS beamline, SOLEIL Synchrotron, Paris, France

Title: Signatures of protein tyrosine phosphatase activity in individual K562 leukocytes analyzed with SR microFTIR and Raman spectroscopy.

Role: partner

EU FP7 Transnational Access to Research Infrastructures (TARI)

European Light Sources Activities (ELISA)

DLS Diamond Light Source UK Beamline: B22: 2012-2013

Experiment SM8087. MicroFTIR analysis of leukemic blast cell models with variable resistance to tyrosine kinase inhibitors.

Role: P.I.

EU FP7 Transnational Access to Research Infrastructures (TARI)

CALIPSO (Coordinated Access to Lightsources to Promote Standards and Optimization)

DLS Diamond Light Source UK Beamline: B22: 2013-2014

Proposal Ref: SM9055

Title: Studying colo-rectal cancer microenvironment by SR infrared spectromicroscopy.

Role: P.I.

EU FP7 Transnational Access to Research Infrastructures (TARI)

CALIPSO (Coordinated Access to Lightsources to Promote Standards and Optimization)

DLS Diamond Light Source UK Beamline: B22: 2013-2014

Proposal Ref: SM9056

Title: Revealing drugs targeting basic defects in cystic fibrosis by SR FTIR microspectroscopy.

Role: partner

EU FP7 Transnational Access to Research Infrastructures (TARI)

CALIPSO (Coordinated Access to Lightsources to Promote Standards and Optimization)

DLS Diamond Light Source UK Beamline: B22: 2013-2014

Proposal Ref: SM9461

Title: Testing CFTR corrector drugs in cystic fibrosis blood monocytes by SR microFTIR.

Role: partner

EU FP7 Transnational Access to Research Infrastructures (TARI)

CALIPSO (Coordinated Access to Lightsources to Promote Standards and Optimization)

DLS Diamond Light Source UK Beamline: B22: 2013-2014

Proposal Ref: SM9460

Title: Molecular characterization of tumour stroma in human colorectal cancer by IR microprobe.

Role: P.I.

### **Research Support : Translational RESEARCH services**

Title of funded proposal: Support for clinical trials in cystic fibrosis

Funding Agency: Clinical Research Center-Verona

Performance period: 2015-2016

Amount: 120000 €

Role: P.I.

Title of funded proposal: Effects of PDE4 inhibitors on CFTR expression and function in in vitro models of cystic fibrosis and COPD

Funding Agency: Chiesi farmaceutici (ODA 45000 63815)

Performance period: 2015-2017

Amount: 80703 €

Role: P.I.

Title of funded proposal: PARTICIPATION IN THE CLINICAL TRIAL NETWORK (ASSAEL08A0)  
Funding Agency: Cystic Fibrosis Foundation Therapeutics, Inc. (USA)  
Performance period: 2012-2017  
Amount: 420000 USD  
Role: Partner

Title of funded proposal: Evaluation of the effect of PTC-124 on human intestinal organoids and monocytes  
Funding Agency: PTC therapeutics  
Performance Period: 2016-2018  
Amount: 128000 €  
Role: P.I.

Title of funded proposal: Effects of PDE4 inhibitors on CFTR expression and function in in vitro models of cystic fibrosis  
Funding Agency: Chiesi farmaceutici (RDA 10188791)  
Performance period: 2018-2020  
Amount: 99308 €  
Role: P.I

#### D.

Editorial Board Member: World Journal of Gastrointestinal Oncology (WJGO), WJH, American Journal of Cancer Research, Science Letters

Review Editor for Frontiers Pharmacology

#### E. Conferenze su invite/attività correlate:

- 1) Invited speaker satellite meetings: Biomarkers to personalize treatment of the basic defect and to monitor early response: XIII CONVENTION OF FFC INVESTIGATORS IN CYSTIC FIBROSIS: in sessions “Biomarkers to personalize treatment of the basic defect and to monitor early response” and “Biomarkers as potential predictors of treatment effectiveness before therapy in individual patients” : Poiano Hotel Resort Garda-Verona 26-28 november 2015
- 2) Invited speaker: “The host’s and pathogen’s sides in cystic fibrosis: some views in a open field” 2016 ECFS Basic Science Conference, Pisa, Italy (March 30 - April 2, 2016).
- 3) Chairman: Italian Society of Cancerology, 58th national congress, 2016, Verona, Italy: Cancer genetics, epigenetics and control of gene expression session
- 4) Chairman: XIV CONVENTION OF FFC INVESTIGATORS IN CYSTIC FIBROSIS: Poiano Hotel Resort Garda-Verona 24-26 november 2016
- 5) Invited speaker: HUMAN ANTIBODIES & HYBRIDOMAS - HAH 2016 9-11 November 2016, Hilton Hotel, Belfast, Northern Ireland, UK
- 6) Invited speaker: SIGO 2017 (Shanghai International Gastrointestinal Oncology Symposium)
- 7) Member of the organizing committee of the 13th International Conference on Laboratory Medicine & Pathology March 05-07, 2018 Berlin, Germany
- 8) Invited speaker: 17<sup>th</sup> Scientific Meeting: Organoids as models of disease and treatment in CF. September 21<sup>th</sup>+22<sup>nd</sup> 2017, Schloss Waldhausen, Mainz-Germany
- 9) Chairman XV CONVENTION OF FFC INVESTIGATORS IN CYSTIC FIBROSIS: 26-28 October 2017 Camera di Commercio Verona, Congress Center Corso Porta Nuova, 96
- 10) Organizer: AICC WORKSHOP ON ORGANOID CULTURES, Verona, March 8, 2018

#### F. Premi:

Young investigator award for the study: A “Shotgun” Proteomic Approach Identify Versican and MAC25/Angiomodulin as Novel Molecules Released by Pancreatic Cancer Cells: A Preliminary Characterization Mafficini A., Scarpa A., Mauri P., Bassi C., Mina M., Bonora A., Pederzoli P., Sorio C. AISP - 28th National Congress. Verona (Italy). October 28-30, 2004. Published in JOP. Journal of the Pancreas – <http://www.joplink.net> – Vol. 5, No. 5 Supplement – September 2004. [ISSN 1590-8577]

Investigator award for the study: “Protein tyrosine phosphatase receptor type gamma (PTPRG) is a functional tumor suppressor gene specifically down-regulated in chronic myeloid leukemia (CML) “ by Moratti E.; Della Peruta M.; Vezzalini M.; Pintani D.; Mafficini A.; Tecchio C.; Monne M.; Sorio C. XXX international congress (SIP-ASIP), University of Salerno & the Grand Hotel Salerno October 14-17, 2010 published in Am J Pathol. 2010 Oct;177 Suppl:S1-35.

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Best poster award for the study: STUDIO DI MECCANISMI ANTI-INFIAMMATORI DELL' AZITROMICINA: DALL' EPITELIO BRONCHIALE UMANO CON FIBROSI CISTICA ALL' IMAGING DELL'ATTIVAZIONE DI NF-KB IN VIVO.

F. Stellari, C. Cigana, G. Bergamini, C. Sorio, F. Ruscitti, G. Villetti, B. Assael and P. Melotti. XIX Congresso Italiano della Fibrosi Cistica IX Congresso Nazionale della Società Italiana per lo Studio della Fibrosi Cistica (SIFC), Palermo 13-16 November 2013, Hotel Città del Mare, Terrasini (PA)

"Azithromycin effect on lung inflammation induced by pseudomonas aeruginosa released proteases as shown by in vivo imaging in il-8 transiently transgenized mice" Gabriella Bergamini, Fabio Stellari, Angela Sandri, Francesca Ruscitti, Gino Villetti, Claudio Sorio, Paola Melotti, Baroukh Maurice Assael, Maria M Lleo  
Selected among "best 10 posters" at the North American Cystic Fibrosis Conference, Atlanta, USA 9-11 October 2014.

Luisa Tomasello, Marzia Vezzalini, Iliaria Pergher, Elisa Gardiman, Massimiliano Bonifacio, Mauro Krampera, Mohamed Yassin, Nader Al-Dewik and Claudio Sorio  
Regulative Loop between  $\beta$ -Catenin and Protein Tyrosine Phosphatase Receptor Type  $\gamma$  (PTPRG) in Chronic Myeloid Leukemia  
18th Annual John Goldman Conference on Chronic Myeloid Leukemia: Biology and Therapy, September 15 - September 18, 2016 – Houston, TX ORAL PRESENTATION- TRAVEL GRANT . 18th Annual John Goldman Conference on Chronic Myeloid Leukemia: Biology and Therapy September 15-18, 2016 – Houston, TX, USA

Luisa Tomasello, Marzia Vezzalini, Iliaria Pergher, Elisa Gardiman, Massimiliano Bonifacio, Mauro Krampera, Mohamed Yassin, Nader Al-Dewik and Claudio Sorio  
Regulative Loop between  $\beta$ -Catenin and Protein Tyrosine Phosphatase Receptor Type  $\gamma$  (PTPRG) in Chronic Myeloid Leukemia  
XIV Congresso Nazionale SIES 2016 Rimini, October 19-21 2016 ORAL PRESENTATION- TRAVEL GRANT

**G.** Reviewer per: Cancer Research, Clinical Endocrinology, Journal of Leukocyte Biology, Proteomics, Journal of Translational Medicine, Journal of Pathology, Clinical Biochemistry, Molecular Cancer, BMC Cancer, Critical Reviews in analytical chemistry, Current Signal Transduction, European Journal of Pediatrics, International Journal of Biochemistry Research & Review, PlosOne, World Journal of Gastrointestinal Oncology, Oncotarget, BioMed Research International, Frontiers Pharmacology, Journal of Clinical Investigation, Thorax

**H.** International and National bodies:

Advisor: Pancreatic Cancer UK agency ([www.pancreaticcancer.org.uk](http://www.pancreaticcancer.org.uk)), Prostate Action UK ([www.prostateaction.org.uk](http://www.prostateaction.org.uk)); King Badouin Foundation, Belgium,

Member: European Cystic Fibrosis Society (ECFS) Cystic Fibrosis Molecular & Cell Biology and Physiology Basic Science Working Group (ECFS Basic Science WG)

**I:** Reviewer di programmi di ricerca nazionali ed internazionali:

- 1) Italy (SIR: Scientific Independence of Young Researchers),
- 2) Fundamental Research Projects (FARB)
- 3) University of Bologna (Italy),
- 4) France Ministry of University, France
- 5) Polish National Science Centre (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>)
- 6) External Reviewer for Cystic Fibrosis Canada ([www.cysticfibrosis.ca](http://www.cysticfibrosis.ca))
- 7) Pancreatic Cancer UK (PCUK)
- 8) Cancer Research UK

**L.** Attività didattica e di consulenza :

Partecipa a consigli di:

Corso di dottorato di ricerca in "inflammation, Immunity and Cancer"

Corso di dottorato di ricerca "Molecular and cellular biology and pathology "

Corso di specializzazione in "Oncologia Medica" (1999-2013)

CdL fisioterapia

CdL infermieristica

Dipartimento di Medicina

Sorio, Claudio

Attività:

1. Professore supplente (patologia ed oncologia) alla facoltà di scienze dell' Università of Verona (2006)
2. Docente di "Patologia Generale Oncologica" per il I e II anno della scuola di specializzazione in Oncologia Medica dell'Università di Verona (1999-2013);
3. Coordinatore (dall'a.a. 2010/11) del corso magistrale "Fisiopatologia applicata all'infermieristica" (9 crediti) in Verona and Vicenza: attività didattica a partire dal 1999.
4. Coordinatore (dall'a.a. 2007/08) del corso magistrale "Patologia" nel CdL in Fisioterapia (4 crediti) di Verona e Vicenza, attività didattica a partire dal 1999
5. Fa parte del corpo docente del Dottorato di Ricerca in Biologia e Patologia Molecolare e Cellulare presso l'Università di Verona (1999-2005), successivamente della Scuola per il Dottorato in Scienze Biomediche Traslazionali (2006-presente).
6. Scuola di Medicina e Chirurgia: lezioni nel corso di patologia generale
7. Scuola di Medicina e Chirurgia: progetto TANDEM (16 ore di lezione frontale/anno accademico): <http://www.univr.it/main?ent=servizioaol&idDest=3&sServ=72&serv=71&lang=en>
8. Nominato Visiting Professor all' Università del Minnesota, Department of Biochemistry Molecular Biology and Biophysics (2014)
9. Consulenza presso il National Center for Cancer Care & Research Center (NCCCRC), Hamad Medical Center (Doha, Qatar)
10. Corso di patologia alla Università internazionale "LUISS Guido Carli", Roma, Italy (2014-2017)

**M:** Supervisore e Correlatore di Tesi di laurea specialistica (CTF), di tecnici di laboratorio (3) di specializzazione (Anatomia Patologica), di dottorato di ricerca (7 studenti) . he supervised the thesis for Bachelor Degree in Biomedical Laboratory techniques (2), Master degree (1), Specialization in pathology (1), MD degree (1) and PhD (7). Sette ricercatori a contratto hanno frequentato il laboratorio. (attualmente frequentato da 1 studente di dottorato, 4 ricercatori a contratto and 4 tecnici di laboratorio).

**N:** Membro delle seguenti società scientifiche: SIP, SIICA, SIC, EACR, ASH, EHA, ECFS

Sito istituzionale:

<http://www.dpd.univr.it/?ent=persona&id=1181&lang=en>;

<http://www.cfcverona.it/LabRicTras.html>

Verona, 3 Aprile, 2018

Claudio Sorio