

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Claudio Sorio, M.D., Ph.D., Path.	Associate Professor

Born in Verona (Italy) on September 21st, 1962. Nationality: Italian

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Padova and Univ. of Verona	M.D.	1982-1988	Medicine
University of Verona	Ph.D.	1990-1994	Pathology
University of Verona	Specialization	1994-1998	Surgical Pathology

Employment and international activity

1989-1990:	Chief of the sanitary Service of the Military Presidium in Verona
1992-1995:	Post-Doctoral Fellow, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, U.S.A.
1991-1998:	Visiting scholar (2 months) at the EMBL, Heidelberg (Dr. Sara Courtneidge lab, 1991) and Ulm University (Prof. Thomas Gress, 16-07-2008 until 26-08-2008)
1998	Assistant/aggregate Professor of Pathology, various research and teaching stages at the Diamond Light Source (Didcot, UK), National Center for Cancer Care & Research (NCCCR) Doha, Qatar, University of Minnesota, (USA).
2012-present	Founder and Coordinator of the Cystic Fibrosis Translational Research (C.F.T.R.) departmental laboratory, at the Department of Pathology and Diagnostics-now Department of Medicine (http://www.cfcverona.it/LabRicTras.html)
2014	Appointed Faculty Member (Visiting Professor) at the Department of Biochemistry and Cell Biology, University of Minnesota (U.S.A.)
2017	National Academic Qualification as Full Professor for sectors 06A2 (General pathology and clinical pathology) and 06N1 (Sciences of health professions and of applied medical technologies)
2018	Appointed Associate professor of General Pathology and Immunology

SUMMARY

Dr. Claudio Sorio is currently Associate Professor of General Pathology. He obtained the National Academic Qualification as Full Professor for sectors 06A2 (General pathology and clinical pathology) and 06N1 (Sciences of health professions and of applied medical technologies). He is the founder and serves as coordinator of the Departmental Laboratory of Translational Research In Cystic Fibrosis of the Department of Medicine of the University of Verona. Study of Biomarkers for Cancer and Cystic Fibrosis are the main field of interests, with a specific focus on the role of Protein Tyrosine Phosphatase Gamma (PTPRG) in health and disease that his group discovered as new dendritic cell biomarker and new tumor suppressor gene in chronic myeloid leukemia. In the field of cystic fibrosis, since 2009 he promoted the study of the role of leukocytes, especially monocytes, in the disease and as a tool to better understand its pathogenesis and their application as disease biomarker. He has been leading and actively participating to multiple research projects in leukemia and Cystic Fibrosis. He authored 78 original publications in international journals and is the single major contributor in the field of PTPRG characterization. He has been serving as an editorial board member of various reputed journals. He is member of many scientific societies and has participated in relevant national and international research projects.

Field of activity and major scientific contributions

Work on the role of tyrosine kinases in myeloid cells (1990-1993) the role of PTPRG in health and disease (since 1992), cancer models/biomarkers (since 1998) and cystic fibrosis (since 2008). Focused on translational medicine, specifically in the field of **BIOMARKER DISCOVERY AND VALIDATION**, establishing approaches that utilize primary, patient-derived samples. Main fields of investigation include:

KINASE/PHOSPHATASE SIGNALLING and EXPERIMENTAL Oncology**SRC family kinase:**

Started his scientific career under the supervision of Prof. Giorgio Berton working mainly on SRC kinase signalling (references 1-11)

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Moved to Jefferson Cancer Center (Thomas Jefferson University, Philadelphia, U.S.A.) and worked with Proff. Kay Huebner and Carlo Croce on experimental oncology (ref. 12-17) and then established his independent laboratory in Verona (1995) focusing on the study on experimental oncology/biomarkers.

Back to Verona worked on

PANCREATIC CANCER: Various contributions in the field of pancreatic cancer in collaboration with Aldo Scarpa. Among others the identification of **FHIT as a tumor suppressor** gene in pancreatic cancer (19), the setup of the **cryopreservation** protocol for primary pancreatic cancer tissue and demonstration that take rate in xenograft was equivalent to fresh tissue implant (22), he established one of the few **Ampulla Vateri** adenocarcinoma cell lines available (28, 67) and of the first and still unique model of a **mucinous cystic** pancreatic adenocarcinoma (30), contributed to the identification of CAIX as pancreatic cancer stem cell regulator (63) and applied innovative strategies for the identification of cancer biomarkers (29, 31, 26, 47).

PTPRG as a myeloid cell biomarker and tumor suppressor gene in CHRONIC MYELOID LEUKEMIA:

1) He has pioneered the study and is the **single major contributor** in the field of PTPRG characterization having published 12 of the 95 research papers dealing with PTPRG (excluding reviews) present in the international literature since the time of discovery, in 1994 (source: PubMed).

2) Major contributions in this field include the biochemical characterization of PTPRG with the development of the first specific antibody (13), the identification of PTPRG as a critical gene controlling normal hematopoiesis (16, 36), its role as a dendritic cell marker (32), as tumor suppressor gene in **chronic myeloid leukemia**, breast and lung cancer (27, 42, 58, 76), its expression and regulation in the CNS (53), its role as a regulator of integrin activation in monocytes (60) and as a potential biomarker of liver disease (61).

3) His group developed the **first antibody** capable to detect PTPRG by flow cytometry (36), immunofluorescence/immunohistochemistry (13, 36) and subsequently developed and characterized the first **monoclonal antibody** with the same features (74). Several research groups (from Max Planck Institute, Jena University Hospital, University of California San Diego, University of Geneva, Aarhus University, The Norwegian Radium Hospital to name the most recent ones) have requested collaboration and our antibodies for their research projects.

INFRARED SPECTROSCOPY:

Contributed to set approaches for the application of infrared microspectroscopy (**FT-IR**) in the study of kinase/phosphatase signaling, particularly in **chronic myeloid leukemia**, in collaboration with Giuseppe Bellisola and Gianfelice Cinque (43, 48, 51, 62)

NEW MATHEMATICAL MODELLING OF CANCER DEVELOPMENT:

Evolution of existing **two-steps models of Chronic Myeloid Leukemia** development, supporting the role of a secondary key event in the development of this disease based on advanced mathematical modeling, in collaboration with Paola Lecca (70)

CYSTIC FIBROSIS (CF):

The Cystic Fibrosis Laboratory "D. Lissandrini" he founded focus on translational research. The laboratory focus on methods to evaluate CFTR function both in vivo and ex vivo. Along this line the laboratory pioneered the use of **leukocyte as a novel** source of primary cells with clinical application in CF. The studies permitted the **first demonstration** of the use of these cells in CF clinical diagnostic applications, in collaboration with Paola Melotti, Cystic Fibrosis Center, Verona (46, 52, 55, 56, 57). Other fields of investigation developed include **pro-inflammatory mechanisms of P. Aeruginosa** in cystic fibrosis in collaboration with P.M. and Fabio Stellari (49, 59, 66, 71), contribution to the application to CF research of innovative animal models in collaboration with M.LLeo, P.M. and F.Stellari (6, 68, 73). Of relevance the discovery of a monocyte-selective **adhesion defect** in CF (that permitted to propose CF as **new type of leukocyte adhesion deficiency**, named type IV) in collaboration with P.M. and Carlo Laudanna (65). In his laboratory culture of **human colorectal organoids** from control and CF donors has been recently developed in collaboration with P.M. and Hugo De Jonge (Erasmus Medical Center, The Netherlands). Recently an innovative method to study CFTR function in **individual sweat glands in vivo** has been validated within an international effort (77).

Shwachman-Bodian-Diamond Syndrome (SDS):

A new collaboration with regional SDS center (lead by dr. M. Cipolli) permitted to identify a specific molecular alteration in primary cells from SDS patients and propose a new pharmacological approach (69, 78).

Publications, Original and peer-reviewed

Author of 77 publications indexed in Pubmed. Total impact factor (timed): 390, mean IF: 5.42. Total citations: 2023, h index 22 (Scopus) as of January, 2018

1. 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

2. 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
3. Amezcaga, 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-I) in human polymorphonuclear leukocytes. *Blood* 79, 735-744 WOS:A1992HB53300026 IF 2002: 9,631
4. 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
5. 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
6. 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 parallels SMAD4 expression and delays tumor growth in vitro and in vivo. *Oncogene* 22, 6359-6368 DOI: 10.1038/sj.onc.120665; WOS:000185535300006; Scopus: 2-s2.0-0142135502 IF: 6,495
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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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- adenocarcinoma: potential relevance for adenoviral gene therapy, *J Transl Med.* 2010 Jan 29;8(1):10
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1. A SIMPLE METHOD TO MEASURE CFTR-DEPENDENT IODINE TRANSPORT IN PERIPHERAL BLOOD MONONUCLEAR CELLS: HS-YFP ASSAY
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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
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Sorio, Claudio

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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
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Patents

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, 16th 2017

Inventors: Claudio Sorio, Marzia Vezzalini

C. Research Support (Competitive grants)

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

Funding Agency: AIRC
Performance Period: 1996-1999
Amount: 31000 €
Role: P.I.

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

Funding Agency: Consorzio Studi Universitari
Performance Period: 2001-2002
Amount: 7750 €
Role: P.I.

Title of funded proposal: La tirosin fosfatasi recettoriale gamma nel sistema emopoietico normale e nelle neoplasie emolinfopoietiche

Funding Agency: Fondazione Cariverona
Performance Period: 2003-2005
Amount: 52624 €
Role: P.I.

Title of funded proposal: PTPRG as a novel tumor suppressor gene in chronic myeloid leukemia and its clinical implications

Funding Agency: AIRC-IG 4667
Performance Period: 2008-2011
Amount: 150.000 €
Role: P.I.

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

Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC#15/2008)
Performance Period: 2008-2010
Amount: 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

Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC #5/2009)
Performance Period: 2009-2011
Amount: 45000 €
Role: P.I.

Title of funded proposal: Novel biomarkers for evaluation of efficacy of new therapies in cystic fibrosis

Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC #6/2010)
Performance Period: 2010-2012
Amount: 55000 €
Role: Partner

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

Funding Agency: Mucoviscidose : ABCF (France)
Performance Period: 2011
Amount: 30.000 €
Role: Partner

Title of funded proposal: Development of new antibodies for diagnostic application in chronic myeloid leukemia

Funding Agency: University of Verona-Joint Project
Performance Period: 2009-2011
Amount: 45000 €

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Role: P.I.

Title of funded proposal: Testing human monocytes as a new tool for clinical and preclinical research in CF
Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC #26-2011)
Performance Period: 2011-2013
Amount: 70000 €
Role: P.I.

Title of funded proposal: PTPRG in health and disease
Funding Agency: MIUR-F.U.R.
Performance Period: 2010-2011
Amount: 17000 €
Role: P.I.

Title of funded proposal: Role of Protein Tyrosine Phosphatase Gamma (PTPRG) in the pathogenesis of chronic myeloid leukemia (CML) and its evaluation as a new biomarker of disease
Funding Agency: Qatar National Research Fund: NPRP 4-157-3-052
Performance Period: 2013-2016
Amount: 1.004.915,00 USD
Role: P.I.

Title of funded proposal: Establishment of a semi-automated evaluation of CFTR function in blood cells for clinical applications
Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC #06-2013)
Performance Period: 2013-2014
Amount: 40000 €
Role: P.I.

Title of funded proposal: Testing CFTR repair in cystic fibrosis patients carrying nonsense and channel gating mutations
Funding Agency: Italian Cystic Fibrosis Research Foundation (FFC #29-2015)
Performance Period: 2015-2017
Amount: 50000 €
Role: P.I.

Title of funded proposal: Monitoring tyrosine kinase inhibitors efficacy in chronic myeloid leukemia
Funding Agency: University of Verona-Joint Project
Performance Period: 2016-2018
Amount: 46000 €
Role: P.I.

Title of funded proposal: LeukoPredict
Funding Agency: EU proposal 711286 –SME instrument-phase 1
Performance Period: 2016-2017
Amount: 50000 €
Role: Partner-project proponent

Research Support: Access to Research Infrastructures (competitive)

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)

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European Light Sources Activities (ELISA) EC contract N. 226716

DLS Diamond Light Source UK

2010 - 2011

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

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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. Invited speaker/conference duties:

- 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: 17th Scientific Meeting: Organoids as models of disease and treatment in CF. September 21th+22nd 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. Awards:

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.

Best poster award for the study: STUDIO DI MECCANISMI ANTI-IFIAMMATORI 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 β -Catenin and Protein Tyrosine Phosphatase Receptor Type γ (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 β -Catenin and Protein Tyrosine Phosphatase Receptor Type γ (PTPRG) in Chronic Myeloid Leukemia

XIV Congresso Nazionale SIES 2016 Rimini, October 19-21 2016 ORAL PRESENTATION- TRAVEL GRANT

G. Reviewer for: 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), Prostate Action UK (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 of national and international research programs for:

- 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)
- 7) Pancreatic Cancer UK (PCUK)
- 8) Cancer Research UK

L. TEACHING and CONSULTANT activity

Participation in Collegiate Bodies:

Council of PhD course in "inflammation, Immunity and Cancer"

Council of PhD course in "Molecular and cellular biology and pathology "

Council of Specialization course in "Medical Oncology" (1999-2013)

Council for the Degree Course in Physiotherapy - Medicine and Surgery

Council for the Degree Course in Nursing - Medicine and Surgery

Council of the Department of Medicine

Activities:

1. Supply professor (pathology and oncology) at the faculty of science of the University of Verona (2006)
2. Teaching course of "molecular pathology of cancer " for the residency in medical oncology 1999-2013;
3. Coordinator (since academic year 2010/11) of the magistral course "Physiopathology applied to nursing science" for the bachelor degrees in Nursing (9 credits) Profession Sciences schools held in Verona and Vicenza: teaching activity started in 1999.
4. Coordinator (since academic year 2007/08) of the magistral courses "Pathology" in Health and Rehabilitation (4 credits) Profession Sciences schools held in Verona and Vicenza, teaching activity started in 1999
5. School of Medicine and Surgery: selected topics within the general pathology module
6. School of Medicine and Surgery: TANDEM project (16 hours teaching/academic year):
<http://www.univr.it/main?ent=servizioaol&idDest=3&sServ=72&serv=71&lang=en>
7. Appointed Visiting Professor at the University of Minnesota, Department of Biochemistry Molecular Biology and Biophysics (2014)
8. Consultant at National Center for Cancer Care & Research Center (NCCCRC), Hamad Medical Center (Doha, Qatar)
9. Pathology teaching courses at the international University "LUISS Guido Carli", Rome, Italy (since 2014)

M: Mentor and tutor: 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). Seven post-doctoral fellows that were engaged in his laboratory (currently employing 1 PhD student, 4 post doctoral fellows and 3 technicians).

N: Member of the following scientific societies: SIP, SIICA, SIC, EACR, ASH, EHA, ECFS

Institutional site:

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

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

Verona, April 3rd, 2018

Claudio Sorio