



PERSONAL INFORMATION

Name **GIUSEPPE BELLISOLA**
Address **AZIENDA OSPEDALIERA UNIVERSITARIA INTEGRATA (AOUI) DI VERONA
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Nationality **ITALY**
• Occupation or position held **Executive, Senior Researcher**
Place and Date of birth **VICENZA, 01.02.1955**

EDUCATION AND TRAINING

- Title of qualification awarded **Doctor in Clinical Biology**
- Organisation providing education **University of Verona.**
 - from 1987 – to 1990 **Graduate student in Biochemistry and Clinical Chemistry.**
- Title of qualification awarded **Doctor in Internal Medicine**
- Organisation providing education **University of Verona.**
 - from 1982 – to 1986 **Graduate student in Internal Medicine**
- Title of qualification awarded **Laurea in Medicine and Surgery**
- Organisation providing education **The University of Padua, Faculty of Medicine and Surgery**
 - from 1975 – to 1981 **Medical student**

TEACHING

2015. Lecturer at National Research Nuclear University (NRNU)-MEPhI (Moscow Engineering Physics Institute), International seminar "Advanced Accelerator & Radiation Physics - Ancient Radiations, New Physics and High-Tech Applications (M.N. Strikhanov, S.B. Dabagov, A. Marcelli).

2008. The Summer School on Synchrotron Infrared Microspectroscopy, ANKA, Karlsruhe, Germany (www.dasim.eu).

2002 – 2003: contract professor at the University of Verona, Degree in Biomedical Laboratory Techniques.

1993 – 1998: contract professor at the University of Verona, the Graduate School of Biochemistry and Clinical Chemistry.

AFFILIATIONS

2016. INFN - Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati - LNF

2016 The Royal Society of Chemistry - RSC

2015 CLIRSPEC - Clinical Infrared and Raman Spectroscopy for Medical Diagnosis

RESEARCH INTEREST:	BIOSPECTROSCOPY	
Principal Investigator of EU funded projects	Project ID	Title
	2013. DLS SM9056	Revealing drugs targeting basic defects in cystic fibrosis by SR FTIR microspectroscopy.
	2013. SOLEIL Project 20130055	Signatures of protein tyrosine phosphatase activity in individual K562 leukocytes analyzed with SR microFTIR and Raman spectroscopy.
	2013. SOLEIL Project 20131026	Testing drugs targeting defective CFTR in cystic fibrosis cells by synchrotron radiation Fourier transform infrared micro-spectroscopy.
	2013. DLS SM8474	Testing/monitoring the effects of new therapeutic molecules for Cystic Fibrosis (CF) in blood leukocytes by microFTIR.
	2012. DLS SM7582	MicroFTIR analysis of cystic fibrosis (CF) epithelial cell lines and of blood leukocytes from CF patients.
	2011. DLS SM7143	Combining Fourier Transform InfraRed microspectroscopy and visible fluorescence microscopy in leukemic cell models.
	2011. DLS SM6675	Testing drug resistance/sensitivity in cancer cell lines by Fourier Transform InfraRed micro-spectroscopy (microFTIR) and unsupervised pattern recognition.
	2010. DLS SM4333	Detecting drug effects by Fourier Transform InfraRed micro-spectroscopy (microFT-IR) on single cells.
	2009. ELETTRA Proposal 20095114	Fourier Transform InfraRed microscopic analysis of single leukaemic cell.
2008. ELETTRA Proposal 2008232	Detection of drug-induced signatures in normal and in tumour cells by Fourier Transform InfraRed Microspectroscopy (FTIRM).	
1998.ESRF LS-995	Mapping of elements in cancer cell clusters (spheroids) by X-RAY FLUORESCENCE (μ XRF) SPECTROSCOPY	
Co-investigator in EU funded projects	Project ID	Title
	2015. DLS, SM 11263.	Exploring the extracellular matrix of urothelial bladder cancer by SR FTIR micro-spectroscopy.
	2014. DLS, SM10110	SR infrared analysis in human colorectal cancer (CRC) micro-tissue arrays.
	2014. DLS, SM9460	Molecular characterization of tumour stroma in human colorectal cancer by IR microprobe.
	2013. DLS SM9055	Studying colo-rectal cancer microenvironment by SR infrared spectromicroscopy.
	2012. DLS SM8087	MicroFTIR analysis of leukemic blast cell models with variable resistance to tyrosine kinase inhibitors.
	2005-2008 EU SSA DASIM	EU FP6 Lifescihealth-I, under the priority "Life Sciences, Genomics and Biotechnology for Health". The Scientific Supported Action (SSA) DASIM – Diagnostic Application of Synchrotron Infrared Microspectroscopy
	1994-1997 EU Human Capital and Mobility Programme	INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS (INAA), Hahn Meitner Institute, Berlin, Department NG: Trace Elements Research in Health and Nutrition (Director Prof. Dr. Peter Brätter)
	1986-1993 INFN	PROTON INDUCED X-RAY EMISSION (PIXE AND MICROPIXE). Nuclear techniques for trace analysis in biological samples. INFN Section V - Laboratori Nazionali di Legnaro (PD).

1. G. Bellisola, M. Bolomini Vittori, G. Cinque, P. Dumas, Z. Fiorini, C. Laudanna, M. Mirenda, C. Sandt, G. Silvestri, L. Tomasello, M. Vezzalini, K. Wehbe, and C. Sorio. Unsupervised explorative data analysis of normal human leukocytes and BCR/ABL positive leukemic cells mid-infrared spectra. *Analyst*, 2015, **140**, 4407-4422. IF 3.906
2. Johansson J, Vezzalini M, Verzè G, Caldrea S, Bolognin S, Buffelli M, Bellisola G, Tridello G, Assael BM, Melotti P, Sorio C. Detection of CFTR protein in human leukocytes by flow cytometry. *Cytometry A*. 2014 Jul;85(7):611-20. doi:10.1002/cyto.a.22456. IF 3.711.
3. G. Bellisola, S. Caldrea, G. Cinque, M. Cestelli Guidi, B. M. Assael, P. Melotti, C. 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.
4. G. Bellisola, G. Cinque, M. Vezzalini, E. Moratti, G. Silvestri, S. Redaelli, C. Gambacorti Passerini, K. Wehbe, and C. Sorio. Rapid recognition of drug resistance/sensitivity in leukemic cells by Fourier transform infrared microspectroscopy and unsupervised hierarchical cluster analysis. *Analyst* **138**, 3934-3945, 2013. IF 3.969, Imm. Index 0.785.
5. G. Bellisola, C. Sorio. Infrared spectroscopy and microscopy in cancer research and diagnosis. *Am J Cancer Res* **2**, 1-21, 2012. IF 2.651
6. G. Bellisola, Marco Della Peruta, Marzia Vezzalini, Elisabetta Moratti, Lisa Vaccari, Giovanni Birarda, Massimo Piccinini, Gianfelice Cinque and Claudio Sorio. Tracking InfraRed signatures of drugs in cancer cells by Fourier transform microspectroscopy. *Analyst*. **135**, 3077-3086, 2010. IF 4.23
7. Boschiero L, Nacchia F, Fior F, Cordiano C, Tridente G, Bellisola G. Specific alloantigen self-control by regulatory T cells in organ transplantation: a review. *Transplant Proc.* **39**, 2013-2017, 2007. IF 1.01
8. Bellisola G, Tridente G, Nacchia F, Fior F, Boschiero L. Monitoring of cellular immunity by interferon-gamma enzyme-linked immunosorbent spot assay in kidney allograft recipients: preliminary results of a longitudinal study. *Transplant Proc.* **38**, 1014-1017, 2006. IF 1.01
9. Tomazzolli R, Serra MD, Bellisola G, Colombatti M, Guella G. A fluorescence-based assay for the reductase activity of protein disulfide isomerase. *Anal Biochem.* **350**, 105-112, 2006. IF 2.948
10. G. Cinque, G. Bellisola, M. Colombatti and E. Burattini. X-ray Absorption Near Edge Spectroscopy of sulphur in biomolecules: two examples from Glutathione and Insulin. *Acta Physica Polonica A*. **109**, 335-340, 2006. IF 0.882
11. Fracasso G, Bellisola G, Castelletti D, Tridente G, Colombatti M. Immunotoxins and other conjugates: preparation and general characteristics. *Mini Rev Med Chem.* **4**, 545-562, 2004. IF na
12. Bellisola G, Fracasso G, Ippoliti R, Menestrina G, Rosén A, Soldà S, Udali S, Tomazzolli R, Tridente G, Colombatti M. Reductive activation of ricin and ricin A-chain immunotoxins by protein disulfide isomerase and thioredoxin reductase. *Biochem Pharmacol.* **67**, 1721-1731, 2004. IF 3.436.
13. Fracasso G, Bellisola G, Cingarlini S, Castelletti D, Prayer-Galetti T, Pagano F, Tridente G, Colombatti M. Anti-tumor effects of toxins targeted to the prostate specific membrane antigen. *Prostate.* **53**, 9-23, 2002. IF 3.151.
14. Bellisola G. A co-author dissociates himself from erroneous published results. *Int J Clin Lab Res.* **30**, 112, 2000 (Letter).
15. Ricetti MM, Guidi GC, Tecchio C, Bellisola G, Rigo A, Perona G. Effects of sodium selenite on in vitro interactions between platelets and endothelial cells. *Int J Clin Lab Res.* **29**, 80-84, 1999. IF 1.519
16. G. Bellisola, F. Pasti, M. Valdes, A. Torboli. The use of total-reflection X-ray fluorescence to track the metabolism and excretion of selenium in humans. *Spectrochimica Acta Part B.* **54**, 1481-1485, 1999. IF 2.421
17. G. Bellisola, P. Brätter, G. Cinque, G. Francia, S. Galassini, D. Gawlik, V.E. Negretti de Brätter and L. Azzolina. The TSH-dependent variation of the essential elements Iodine, Selenium and Zinc within human thyroid tissues. *J. Trace Elements Med. Biol.* **12**, 177-182, 1998. IF 0.844.
18. G. Bellisola, GC. Guidi, G. Cinque, S. Galassini, N-Q. Liu, G. Moschini, C. Rugiu and A. Lupo. Selenium status and plasma glutathione peroxidase in patients with IgA Nephropathy. *J. Trace Elem. Med. Biol.* **10**, 189-196, 1996. IF 0.531
19. G. Bellisola, M. Calza Contin, D. Ceccato, G. Cinque, G. Francia, S. Galassini, N.Q. Liu, C. Lo Cascio, G. Moschini, P.L. Sussi (1996) Selenium glutathione peroxidase activities and thyroid functions in human individuals. *Nucl. Instr. Meth. Phys. Res. B.* **109/110**, 350-353, 1996. IF 1.14

20. G. Bellisola, G. Cinque, S. Galassini, G.C. Guidi, N.Q. Liu, G. Moschini (1996) Se status in normal and pathological human individuals before and after Se supplementation. *Nucl. Instr. Meth. Phys. Res.B.* **109/110**, 354-357, 1996. IF 1.14
21. Ricetti M.M., Guidi G.C., Bellisola G., Marrocchella R., Rigo A., Perona G. (1994) Selenium enhances glutathione peroxidase activity and prostacyclin release in cultured human endothelial cells. Concurrent effects on mRNA levels. *Biol. Trace Elem. Res.* **46**,113-23, 1994. IF 0.799.
22. Bellisola G., Perona G., Galassini S., Moschini G. and Guidi G.C. Plasma selenium and glutathione peroxidase activities in individuals living in Veneto region (Italy). *J. Trace Elem. Electrolytes Health. Dis.* **7**, 242-244, 1993. IF 0.551
23. Guidi G.C., Bellisola G., Galassini S., Monti F., Moschini G., Aque A.M.I., Fazinic S., Valkovic O. and Bogdanovic I. Selenium determination by PIXE in healthy and pathological human individuals. *Nucl. Inst. Meth. Phys. Res. B.* **79**, 401-403, 1993. IF 1.157.
24. Bellisola G., Faccini G., Zatti M. Metodi di studio di variabili biochimiche nel metabolismo di acidi grassi. *Giorn. It. Chim. Clin.* **18**, 313-325 , 1993. IF na
25. Guidi G.C., Facchinetti R., Poli G., Ruzzenente O., Bellisola G. La diagnostica di laboratorio nella patologia atero – trombotica. *Trombosi & Aterosclerosi* **4**, 19-23, 1993. IF na
26. Bellisola G., Galassini S., Moschini G., Poli G., Perona G., Guidi G.C. Selenium and glutathione peroxidase variations induced by polyunsaturated fatty acids oral supplementation in humans. *Clin. Chim. Acta* **205**, 75-85, 1992. IF 0.956
27. Guidi G, Facchinetti R, Poli G, Ruzzenente O, Bellisola G. Preparation, properties and performances of a purified standard for Lipoprotein (a) assay. *Bull Mol Biol Med.* **17**, 57-74,1992. IF na
28. Guidi G.C., Bellisola G., Bonadonna G., Manzato F., Ruzzenente O., Schiavon R., Galassini S., Liu Q.X., Shao H.R., Moschini G., Perona G. Selenium supplementation increases renal glomerular filtration rate. *J Trace Elem Electrolytes Health Dis.* **4**, 157-161, 1990. IF 0.551
29. Bellisola G., Casaril M., Gabrielli G.B., Guidi G.C., Negri M., Corrocher R. Phenobarbital increases the activity of erythrocytes and platelets glutathione peroxidase. *Progr Med Lab.* **2**, 217-220, 1988 IF 0.348
30. Bellisola G., Casaril M., Gabrielli G.B., Caraffi M., Corrocher R. Catalase activity in human hepatocellular carcinoma. *Clinical Biochemistry* **20**, 415-417, 1987. IF 1.436
31. Casaril M., Micciolo R., Gabrielli G.B., Bellisola G., Corrocher R. Prognostic score in liver cirrhosis developed using the Cox's proportional hazard regression model. *La Ricerca Clin Lab.* **17**, 67-76, 1987. IF 0.348
32. Casaril M., Moschini G., Liu N.Q., Galassini S., Bellisola G., Stanzial A.M., Capra F., Gabrielli G.B., Corrocher R. Determination of selenium level in human serum using PIXE: study of clinical significance in liver diseases. *Phys Med.* **3**, 37-39, 1987. IF 0.266
33. Corrocher R., Casaril M., Bellisola G., Nicoli N., Guidi G.C., De Sandre G. Severe impairment of antioxidant system in human hepatoma. *Cancer* **58**, 1658-1662, 1986. IF 3.632
34. Gabrielli G.B., Casaril M., Bonazzi L., Baracchino F., Bellisola G., Corrocher R. Plasma fibronectin in liver cirrhosis and its diagnostic value. *Clinica Chimica Acta* **160**, 289-296, 1986. IF 1.035
35. Corrocher R., Casaril M., Bellisola G., Gabrielli G.B., Hulpe M., Garofoli E., Nicoli N. Reduction of liver glutathione peroxidase activity and deficiency of serum selenium in patients with hepatocellular carcinoma. *Tumori* **72**, 617-619, 1986. IF 0.569
36. Miatto O., Casaril M., Gabrielli G.B., Nicoli N., Bellisola G., Corrocher R. Diagnostic and prognostic value of serum copper and plasma fibrinogen in hepatic carcinoma. *Cancer* **55**, 774-778, 1985. IF 3.632
37. Casaril M., Gabrielli G.B., Dusi S., Nicoli N., Bellisola G., Corrocher R. Decreased activity of liver glutathione peroxidase in human hepatocellular carcinoma. *Eur J Cancer Clin Oncol.* **21**, 941-944, 1985. IF 2.537
38. Corrocher R., Casaril M., Bellisola G., Guidi GC., Gabrielli G.B., De Sandre G. Inhibition of erythrocyte glutathione-peroxidase by bromosulphalein. *Acta Haemat.* **74**, 222-226, 1985. IF 1.128
39. Gabrielli G.B., Casaril M., Bonazzi L., Bellisola G., Corrocher R. Plasma fibronectin in liver diseases: correlation with the common parameters of liver function. *J Lab Med.* **12**, 427-430, 1985. IF 1.989.
40. Gabrielli GB., Casaril.M., Miatto O., Perbellini S., Bellisola G., Nicoli N., Corrocher R. Glutathione-peroxidase activity in normal and pathologic liver and its inhibition by bromosulphthalein. *Ital J Gastroenterol.* **16**, 291-294, 1984. IF 1.028
41. Casaril M., Schiavon R., Bellisola G., Gabrielli G.B., Miatto O., Perbellini S., Corrocher R. Significance of coagulation and fibrinolysis defects in liver cirrhosis. *LAB* **11**, 3-7, 1984.
42. Casaril M., Nicoli N., Benati G., Bellisola G., GabrielliG.B., Corrocher R. Attività della glutation-perossidasi nei tumori epatici primitivi. *Il Policlinico* **91**, 1214-1216, 1984

chapter in book

- 1 G. Cinque, E. Burattini, F. Monti, G. Bellisola, G. Fracasso, M. Colombatti and A. Simionovici. Elemental mapping of multicellular tumor spheroids by synchrotron radiation microprobe. In A. Bianconi, A. Marcelli, N.L. Saini eds. *19th International conference on X-ray and Inner-Shell Processes*. Frascati Physics Series, 2002, Vol **32**, pp. 275-279. ISBN 88-86409-39-07.
- 2 G. Bellisola, M. Colombatti, G. Fracasso, F. Pasti, M. Valdes, and A. Torboli. Tracking the metabolism and excretion of selenium in real time in humans. In: A.M. Roussel, A.E. Favier, R.A. Anderson eds. *Trace Elements in Man and Animals 10*. Kluwer Academic/Plenum Publishers, New York, 2000, pp. 873-875. ISBN 0-306-46378-4.
- 3 Bellisola G., Cinque G., Brätter P., Gawlik D., Galassini S. Caesium and Cobalt in human thyroid tissues In Köhrle J. ed. *Mineralstoffe und Spurenelemente, Wissenschaftliche Verlagsgesellschaft GmbH, Stuttgart* 1998, pp. 173-178.
- 4 G. Bellisola, G. Cinque, S. Galassini, A. Orsolini, M. Calza Contin, G. Francia and D. Mastellari. Plasma Selenium and Glutathione peroxidase activity in patients with multinodular goiter. In: P. Collery, P. Brätter, V. Negretti de Brätter, L. Khassanova and JC Etienne eds. *Metal Ions in Biology and Medicine*. John Libbey Eurotext, 1998 Vol **5**, pp. 524-528.
- 5 G. Bellisola, P. Brätter, G. Cinque, S. Galassini, D. Gawlik, G. Francia and Negretti de Brätter. The accumulation of Rubidium and Cesium in altered human thyroid. In: P. Collery, P. Brätter, V. Negretti de Brätter, L. Khassanova and JC Etienne eds. *Metal Ions in Biology and Medicine, John Libbey Eurotext*, 1998 Vol **5**, pp. 529-533.
- 6 G. Bellisola. Aspetti generali della medicina di laboratorio. In: E.F. De Palo ed. *Medicina di Laboratorio: dalla biochimica all'applicazione diagnostica*. Rosini Editrice, Firenze. 1998 Vol **1**, pp. 3-32.
- 7 Guidi G.C., Bellisola G., Schiavon R., Galassini S., Liu N.Q., Moschini G. Effects of increasing dietary selenium intake in humans: preliminary results of a longitudinal study. In P. Brätter-P. Schrämel eds. *Trace Element Analytical Chemistry in Medicine and Biology*. Walter de Gruyter, Berlin, 1988 Vol **5**, pp. 377-383.

Lectures

1. "Mid-infrared spectroscopy and imaging in biomedical research and clinical diagnosis". International Seminar "Advanced Accelerator & Radiation Physics, AARP", NRNU-MEPHI, Moscow, 16-17 November 2015.
2. "Biophotonics: optical diagnostics by vibrational spectroscopy". Graduate School of Translational Biomedical Sciences. Verona, 2015 June 11.
3. "Applicazione della microspettroscopia IR su cellule umane: modelli pre-clinici e drug testing". 2015, March 5, Department of Pharmaceutical Sciences, University of Perugia, Italy.
4. "Chemical Imaging of Cells and Tissues by Fourier Transform Infrared Spectroscopy and Microscopy (MicroFTIR)". 4th February 2009 Department of Surgical and Gastroenterological Sciences, University of Verona.
5. "Infrared MicroSpectroscopy on Human Cells: development of some pre- and clinical applications. 20th November 2008, Diamond Light Source, Chilton, Didcot, Oxfordshire, UK
6. "Fourier Transform Infrared Spectroscopy and Microscopy (MicroFTIR): development of some pre- and clinical applications". 18th December 2008, Department of Pathology, The University of Verona.
7. "FTIR Microspectroscopy and Imaging of Cells". SFR07. From Synchrotron to FEL radiation: new opportunities for Science in Frascati. INFN Laboratori Nazionali di Frascati, June 18-20, 2007.
8. The thioredoxin system: from science to clinic. 2005, June 10, Department of Pathology, University of Verona.
9. Reductive activation of ricin and ricin-A chain immunotoxins by Protein Disulfide Isomerase and Thioredoxin Reductase system. ABCD - Associazione di Biologia Cellulare e del Differenziamento. Meeting "Traffico di membrana e biogenesi degli organelli", Certosa di Pontignano - Siena, 7 - 8 maggio, 2004, pp. 12.
10. Toxin targeted therapy of prostate cancer. Development of new molecules for selective and efficient killing of prostate cancer cells. Bionova TTD, Padova, November 30th - December 1th 2001 Tracking the metabolism and excretion of selenium in real time in humans. TEMA 10, Evian, France, May 2-7, 1999.
11. Metodi di valutazione dello stato del selenio nell'organismo umano. V Convegno nazionale AISETOV, Castel San Pietro Terme (BO) 25-25 Settembre 1998.
12. Tecniche di misura di elementi in traccia per la determinazione di specie molecolari. Università di Verona, Facoltà di Medicina e Chirurgia, Istituto di Immunologia e Malattie Infettive. Verona, May 20, 1997.

13. Application of INAA to Human Thyroid Samples for the Measurement of T.E. Results and suggestions. 3rd NAAL User's Meeting NAAL Hahn Meitner Institut - Berlin (Germany): Berlin, February 21-22, 1997.
14. Distribution of Se, Zn, Fe, Co, Cr, Rb and Cs in human thyroid tissues. Preliminary results. 2nd NAAL User's Meeting NAAL Hahn Meitner Institut - Berlin (Germany): Berlin, November 3-4, 1995.
15. 3rd International Beckman Award. Plasma glutathione peroxidase activity as a marker of mesangial proliferative glomerulonephritis. Santa Margherita di Pula - Cagliari, June 15-18, 1995
16. Selenium balance in different human conditions: combined measurements of Se by PIXE and of selenoproteins activities in fluids and tissues. VII International Conference on Particle Induced X-Ray Emission and its analytical application. Padua, May 26-30, 1995.
17. Selenium status in humans: evaluation and application of suitable biochemical tests for the study of selenium balance in health and diseases". 1st Winter User's Meeting NAAL Hahn Meitner Institut - Berlin (Germany): Berlin, March 25-26, 1994.
18. Metodi di studio di variabili biochimiche nel metabolismo di acidi grassi. XXV Congresso Nazionale Società Italiana di Biochimica Clinica (SIBioC). Torino, September 1993.
19. Valutazione funzionale dei sistemi antiossidanti quali modulatori del metabolismo cellulare. Biochimica Clinica dell'Invecchiamento. Vicenza, May 27-28, 1993.
20. Selenium and glutathione peroxidase activities in human beings living in Veneto. I Congresso Nazionale A.I.S.E.T.O.V., Verona, June 19-20, 1992.
21. Perossidazione lipidica. Danno da radicali liberi e sistemi antiossidanti. Convegno: La malattia aterosclerotica: aspetti fisiopatologici, diagnostici e clinici. Valeggio s/M - Verona, June 5, 1992.
22. Valutazione funzionale dei sistemi antiossidanti quali modulatori del metabolismo cellulare. Biochimica Clinica del Sistema Metabolico. Vicenza, May 25-26, 1990.
23. Uso della tecnica PIXE per lo studio della supplementazione orale con selenio nell'uomo: risultati preliminari. LXXIV Congresso Nazionale S.I.F., Urbino, October 6-11, 1988.
24. Determinazione del selenio sierico mediante PIXE: studio del significato clinico nella cirrosi epatica. IV Congresso Nazionale Associazione Italiana Fisica Biomedica (A.I.F.B.), Roma, September 16-18, 1987.

Workshops and conferences

1. G. Bellisola, R. Lucianò, M. Nebuloni, G. Cinque, K. Wehbe, and M. Alfano. Topographical characterization of human bladder cancer extra cellular matrix by IR microprobe. Advanced Vibrational Spectroscopy for Biomedical Applications. Faraday Discussion, 21-23 March 2016, St Catherine's College, Cambridge, UK.
2. S. Caldrer, S. Vercellone, C. Sorio, M. Ettore, P. Melotti, B.M. Assael, G. Cinque, K. Wehbe, M. Cestelli Guidi, and G. Bellisola. Phenotyping cystic fibrosis cells by microFTIR and Principal Component Analysis. 10th Workshop: FT-IR Spectroscopy in Microbiological and Medical Diagnostics, 15-16 October 2015, Robert Koch Institute, Berlin, Germany.
3. S. Vercellone, S. Caldrer, C. Sorio, G. Gaviraghi, P. Melotti, G. Cinque, K. Wehbe, and G. Bellisola. Testing drugs targeting basic defect in cystic fibrosis (CF) epithelial cell lines by FTIR analysis. 10th Workshop: FT-IR Spectroscopy in Microbiological and Medical Diagnostics, 15-16 October 2015, Robert Koch Institute, Berlin, Germany.
4. G. Bellisola, G. Cinque, K. Wehbe, P. Dumas, C. Sandt, and C. Sorio. Probing intracellular phosphorylation/de-phosphorylation balance in human normal and leukemic cells by microFTIR and unsupervised explorative multivariate data analysis. CLIRSPEC Conference, 20-23 April 2015, Exeter - UK.
5. G. Bellisola, G. Cinque, C. Sandt, P. Dumas, G. Silvestri, C. Sorio. Oncosuppressive effect of direct transduction of receptor-type tyrosine-protein phosphatase gamma (PTPRG) intracellular catalytic domains in K562 cells. 6TH International Conference on Myeloproliferative Neoplasms. October 23-25, 2014 - Estoril, Portugal
6. G. Bellisola, L. Tomasello, Z. Fiorini, G. Silvestri, M. Vezzalini, and C. Sorio. Direct transduction of Receptor-Type Protein Tyrosine-Phosphatase Gamma (PTPRG) intracellular catalytic domains in K562 cells. 56th Annual Meeting of the Italian Cancer Society. Ferrara 11-13 September 2014.
7. M. R. Siddique, A. V. Rutter, G. Cinque, Y. Yang, G. Bellisola and J. Sulé-Suso. Synchrotron based FTIR microspectroscopy of leukaemia cells in 2D and 3D models. SPEC 2014. Shedding new Light on Disease. 17-22 August 2014, Krakow, Poland.
8. G. Bellisola, C. Sorio, M. Vezzalini, G. Silvestri, E. Moratti, S. Redaelli, C. Gambacorti Passerini, K. Wehbe, G. Cinque. Rapid identification of drug-resistance/sensitivity in leukemic

- cells by Fourier transform infrared microspectroscopy (microFTIR) and unsupervised pattern recognition ESG - iCMLF 14th International Conference CML Biology and Therapy. Baltimore 20-23 September 2013 Maryland - USA.
9. G. Bellisola, L. Tomasello, G. Cinque, C. Sandt, P. Dumas, M. Miranda, C. Laudanna, C. Sorio. IR analysis of leukemic cells transduced with an oncosuppressive protein tyrosine phosphatase by HIV-1Tat technology. Workshop FTIR Spectroscopy in Microbiological and Medical Diagnostics. Robert Koch-Institut Berlin, Germany, 24-25 October 2013.
 10. G. Bellisola, et al. Rapid identification of drug-resistance/sensitivity in leukemic cells by Fourier Transform InfraRed microspectroscopy (microFTIR) and unsupervised Hierarchical Cluster Analysis (HCA). Synchrotron User Meeting 2012 (SRUM2012), Diamond Light Source, Diamond House, Harwell Science and Innovation Campus, Didcot, UK, 5-6 September 2012.
 11. G. Bellisola, et al. Rapid identification of drug-resistance/sensitivity in leukemic cells by Fourier Transform InfraRed microspectroscopy (microFTIR) and unsupervised Hierarchical Cluster Analysis (HCA). European School of Haematology – International Chronic Myeloid Leukemia Foundation. 14th International Conference on CML Biology and Therapy. Baltimore, MD, USA 20-23 September 2012.
 12. G. Bellisola, M. Vezzalini, C. Sorio, S. Redaelli, G. Cinque. "Testing drug resistance/sensitivity in leukemic cell lines by microFTIR." Workshop "FTIR Spectroscopy in Microbiological and Medical Diagnostics", Robert Koch-Institute, Berlin, October 20-21, 2011
 13. M. Della Peruta, C. Sorio, M. Vezzalini, E. Moratti, A. Lonetti, G. Martinelli, L. Vaccari, G. Birarda, G. Cinque, G. Bellisola. Tracking InfraRed signatures of drugs in cancer cells by Fourier Transform microspectroscopy (microFTIR). International Conference SPEC 2010, June 26th - July 1st, 2010, Manchester – UK
 14. G. Bellisola. Development of FT-IR Microspectroscopy for pre-clinical and clinical applications. 4th DASIM Workshop, 12th – 13th June 2008, Dublin Institute of Technology, Ireland.
 15. SFR07. From Synchrotron to FEL radiation: new opportunities for Science in Frascati. INFN Laboratori Nazionali di Frascati, June 18-20, 2007.
 16. G. Bellisola, Tridente G, Nacchia F, Fior F, Boschiero L. Immunological markers of acute renal allograft rejection. XXIX Congresso S.I.T.O. Palermo 3-5 Novembre 2005.
 17. G. Cinque, G. Bellisola, M. Colombatti, Preliminary results of Soft X-ray Absorption Near Edge Spectroscopy of sulfur in biomolecules. XL Zakopane School of Physics International Symposium: "Breaking Frontiers: Submicron Structures in Physics and Biology", Zakopane, Poland, 20-25 May, 2005 , pp. 21.
 18. Tomazzoli R., Guella G., Bellisola G., Colombatti M. and Menestrina G. Fluorescent Assay to Demonstrate the Interaction of Thioredoxin Reductase and Protein Disulfide Isomerase. INFN Infomeeting 2004. Convegno Nazionale per la Ricerca Interdisciplinare in Fisica della Materia (CNRINFM), Genova - Italy, June, 8-10., 2004 , pp. 54.
 19. R. Tomazzoli, G. Guella, G. Bellisola, M. Colombatti and G. Menestrina. Fluorescent assay to test Protein Disulfide Isomerase activity induced by thioredoxin reductase. SIBPA 2004. XVII Congresso Nazionale della Società di Biofisica Pura ed Applicata, Pisa - Italia, 23-25 Settembre 2004, pp. 20.
 20. G. Bellisola, M. Colombatti, G. Fracasso, R. Ippoliti, GF. Menestrina, R. Tomazzoli. Protein Disulfide Isomerase and Thioredoxin Reductase: a ricin disulfide reducing system in the endoplasmic reticulum. ELSO 2004. European Life Scientist Organization. Meeting 2004. Nice, France, 4 – 8 September, 2004, pp. 195.
 21. G. Bellisola, G. Fracasso, D. Castelletti, M. Colombatti. Characterization of redox systems in RIPS- II dependent cell intoxication mechanisms. Biological Applications of Synchrotron Infrared in Europe. 1st BASIE Workshop", Karlsruhe, Germany, 11th - 12th September, 2003 , pp. 13
 22. S. Cingarlini, G. Fracasso, G. BELLISOLA, E. Chiesa, T. Prayer-Galetti, F. Pagano, M. Colombatti. Inhibition of cancer cell growth by anti-PSMA immunotoxins in LNCaP spheroid. In «Journal of Chemotherapy», vol. 15, n. 1. Atti di "24th Winter Meeting of the EORTC-PAMM Group". Florence, Italy, February 5-8, 2003, pp. 123
 23. E. Burattini, G. Cinque, G. Bellisola, G. Fracasso, F. Monti and M. Colombatti. Synchrotron Radiation micro X-ray Fluorescence on Multicellular Tumor Spheroids. 19th International Conference on X-RAY AND INNER SHELL PROCESSES. Roma, 24-28 June, 2002 , pp. 515.
 24. G. Fracasso, G. Bellisola, S. Cingarlini, E. Chiesa, T. Prayer-Galetti, F. Pagano, M. Colombatti. The anti-Prostate Specific Membrane Antigen immunotoxin J591-RTA shows an efficient cyto-reductive effect on LNCaP spheroids. International Congress on Advances in the use of multicellular spheroids in cancer biology and therapy. Roma, Istituto Superiore di Sanità, October 9-10., 2002 , pp. 38
 25. G. Fracasso, S. Cingarlini, G. Bellisola, T. Prayer-Galetti, S. Righetti, E. Chiesa, F. Pagano, M. Colombatti. Anti-PSMA-Immunotoxins: a new therapeutical strategy for selective targeting of toxins to prostate cancer cells. The 18th International Conference on "Advances in the

- application of monoclonal antibodies in clinical oncology". Vouliagmeni, Greece, June 13-15, 2001
26. G. Bellisola, F. Pasti, M. Valdes, and A. Torboli. The Use of TXRF to Track the Metabolisation and Excretion of Selenium in Real Time in Humans. International conference on X-ray Fluorescence. Austin, 19-23 Sept., 1998
 27. G. Bellisola, P. Brätter, G. Cinque, S. Galassini, D. Gawlik, G. Francia and Negretti de Brätter The accumulation of Rubidium and Cesium in altered human thyroid. Fifth International Symposium on Metal Ions in Biology and Medicine. München, May 8-10, 1998
 28. G. Bellisola, G. Cinque, S. Galassini, A. Orsolini, M. Calza Contin, G. Francia, D. Mastellari. Plasma Selenium and Glutathione Peroxidase activity in patients with multinodular Goiter. Fifth International symposium on Metal Ions in Biology and Medicine, München, May 8-10, 1998
 29. G. Bellisola, P. Brätter, G. Cinque, G. Francia, S. Galassini, D. Gawlik, G.C. Guidi, V. Negretti de Brätter and P.L. Sussi. The application of Instrumental Neutron Activation Analysis to human thyroid tissues for the measurement of Selenium, Zinc & Iodine. 4° Congresso Nazionale A.I.S.E.T.O.V., Rome, March 20-22, 1997
 30. G. Bellisola, Cinque, P. Brätter, D. Gawlik, and S. Galassini. Selenium, Zinc, Iron, Rubidium, Caesium and Cobalt in human thyroid tissues. 12th Annual Meeting of the Society of Minerals and Trace Elements (GMS), Würzburg, 1-2 November, 1996.
 31. G. Bellisola, Cinque G., Galassini S., Francia P.L., Guidi G.C. Distribuzione del Se ed altri elementi in traccia nei diversi tessuti tiroidei di pazienti affetti da struma multinodulare. LXXXII Congresso Nazionale Società Italiana di Fisica, Verona, September 23-38, 1996.
 32. G. Bellisola, A. Petronio, P.L. Sussi, G. Francia, M. Calza Contin, S. Galassini & G. Cinque. Selenium in patients with goiter. 10th International Congress of Endocrinology (ICE 96) June 12-15, 1996 San Francisco, USA.
 33. M.V. Fuentes, D. Mastellari, G. Moschini, N. Liu, S. Galassini, G. Cinque, G. Bellisola. Comparison between internal standard using low temperature ashing and emission transmission techniques for determination of K, Ca, Mn, Fe, Cu, Zn, Se, Br, Rb, Sr and I in thyroid samples. European Conference on EDXRS, June 23-29, 1996, Lisbon, Portugal.
 34. G. Bellisola, Facchinetti R., Guidi G.C. Effects of cyanide on glutathione peroxidase activity in human erythrocytes. Eurolab '93, Nice 1993.
 35. G. Bellisola, Guidi G.C., Perona G. Selenium supplementation in healthy humans. The Fifth International Symposium on Selenium in Biology and Medicine, Nashville, USA, 1992.
 36. G. Bellisola, Guidi G.C., Galassini S., Moschini G. Selenium and glutathione peroxidase activities in human beings living in Veneto. I Congr. Naz. A.I.S.E.T.O.V., Verona, June, 1992.
 37. Ricetti M., Marocchella R., G. Bellisola., Guidi G.C., Perona G. Stimulation of glutathione peroxidase activity and PGI2 release by selenium in human cultured endothelial cells. International Meeting "Piastrine 91", Rome, 1991.
 38. G. Bellisola, Ricetti M., Guidi G.C., Perona G. Induzione di glutathione perossidasi e di prostaciclina in cellule endoteliali umane coltivate in vitro in presenza di selenio. XXIII Congresso Nazionale Società Italiana di Biochimica Clinica, 1991.
 39. G. Bellisola, Galassini S., Poli G., Guidi G.C. Polyunsaturated fatty acids (PUFA) induce variations on selenium distribution and glutathione peroxidase activity. IX European Congress of Clinical Chemistry, Cracow (PL) 1991.
 40. Guidi G.C., G. Bellisola, Manzato F., Ruzzenente O., Galassini S., Liu Q.X., Shao R., Moschini G., Perona G. Selenium addition increases renal glomerular filtration rate. VIII European Congress of Clinical Chemistry, Milano 1989.
 41. Guidi G.C., G. Bellisola, Ruzzenente O., Bonadonna G., Manzato F. Variazione di GSH-Px in piastrine, eritrociti, plasma durante supplementazione orale con selenio. XX Congresso Nazionale SIBioC, Roma Oct. 25-28, 1988
 42. G. Bellisola, Guidi G.C., Schiavon R., Galassini S., Liu N.Q., Moschini G. Uso della tecnica PIXE per lo studio dell'effetto della supplementazione orale con selenio nell'uomo: risultati preliminari. LXXIV Congresso Nazionale S.I.F., Urbino, Oct. 6-11, 1988
 43. Guidi G.C., G. Bellisola, Schiavon R., Galassini S., Liu N.Q., Moschini G. Effects of increasing dietary selenium intake in humans: preliminary results of a longitudinal study. V International Work Shop on "Trace element analytical chemistry in medicine and biology", Neuherberg (FRG), April 15- 18, 1988
 44. Bonsembiante M., Andrighetto I., Schiappelli P., G. Bellisola, Liu Nian Qing, Moschini G., Manfredi VR. Effetto del genotipo e dell'allattamento sul contenuto di selenio ematico nei vitelli. 73° Congresso Nazionale Società Italiana di Fisica, Napoli, 12-17 Ottobre 1987.
 45. Casaril M., Moschini G., Liu N.Q., Galassini S., G. Bellisola, Stanzial A.M., Capra F., Gabrielli G.B., Corrocher R. Determinazione del selenio sierico mediante PIXE: studio del significato clinico nella cirrosi epatica. IV Congresso Nazionale Associazione Italiana Fisica Biomedica (A.I.F.B.), Roma, Sept 16-18, 1987

- 46.** G. Bellisola, Casaril M., Guidi G.C., Gabrielli G.B., Corrocher R. Effetto del fenobarbital sulla Glutathionperossidasi eritrocitaria e piastrinica. IX Congresso Nazionale Società Italiana di Enzimologia Clinica; Pavia, Sept. 7-9, 1987
- 47.** Casaril M., Gabrielli G.B., G. Bellisola, Capra F., Venturini L., Hulpe M., Corrocher R. Cupremia e ceruloplasmina nel carcinoma epatocellulare. XVIII SIBioC, Verona Oct. 15-18, 1986
- 48.** G. Bellisola, Casaril M., Galassini S., Guidi G.C., Liu X., Moschini G., Gabrielli G.B., Corrocher R. Significato della seleniemia nelle epatopatie. XVIII SIBioC, Verona Oct. 15-18, 1986
- 49.** Olivieri O., Casaril M., Ferrari S., Guidi G.C., Negri M., Schiavon R., G. Bellisola., Corrocher R. Stimolazione del sistema antiossidante eritrocitario in pazienti trattati con olio di pesce. XVIII SIBioC, Verona, Oct. 15-18, 1986
- 50.** Gabrielli G.B., Casaril M., Baracchino F., G. Bellisola, Venturini L., Bonazzi L., Zenari L., Fralezza G.C., Corrocher R. Fibronectin and procollagen III peptide in liver cirrhosis. XXI Meeting E.A.S.L., Groningen (The Netherlands), Sept. 3-6, 1986
- 51.** Casaril M., Micciolo R., Gabrielli G.B., G. Bellisola, Corrocher R. Prognosis in liver cirrhosis by Cox's proportional hazard progression model. XXI Meeting E.A.S.L., Groningen (The Netherlands), Sept.3-6, 1986
- 52.** G. Bellisola, Casaril M., Gabrielli G.B., Caraffi M., Corrocher R. Catalase activity in human hepatocellular carcinoma (HCC). XII International Symposium on Clinical Enzymology, Venice (Italy) April 13-16, 1986.
- 53.** Corrocher R., Casaril M., G. Bellisola, Gabrielli G.B., Guidi G.C., De Sandre G. Elevation of erythrocyte glutathione peroxidase in patients treated with phenobarbital. VIII Meeting of the International Society of Hematology European and African Division, Warsaw (Poland), Sept. 8-13, 1985.
- 54.** Casaril M., G. Bellisola, Guidi G.C., Gabrielli G.B., Vaccari R., Corrocher R. Impairment of GSH/GSH-Px system and decrease of serum selenium in human hepatocellular carcinoma. XII International Symposium on Clinical Enzymology, Venice (Italy) April 13-16, 1986.
- 55.** Casaril M., G. Bellisola, Gabrielli G.B., Nicoli N., Corrocher R. Deficiency of reduced glutathione (GSH) and scavenger enzymes in hepatocellular carcinoma (HCC). XX Meeting E.A.S.L., Espoo (Finland), Aug. 29-31, 1985
- 56.** Casaril M., G. Bellisola, Gabrielli G.B., Nicoli N., Corrocher R. Activity of glutathione peroxidase and catalase in human hepatoma. International Meeting on "Free radicals in liver injury". Torino, June 27-29, 1985
- 57.** Corrocher R., G. Bellisola, Guidi G.C., Casaril M., Gabrielli G.B., De Sandre G. Aumento dell'attività Glutathion-perossidasi negli eritrociti di pazienti epilettici in terapia con fenobarbital. XXXV Congresso Nazionale A.I.P.C., Padova April 24-27, 1985
- 58.** Casaril M., G. Bellisola, Nicoli N., Gabrielli G.B., Corrocher R. Attività degli enzimi "scavenger" negli epatocarcinomi umani. XXXV Congresso Nazionale A.I.P.C., Padova April 24-27, 1985
- 59.** Gabrielli G.B., Bonazzi L., Casaril M., Manzato F., G. Bellisola, Corrocher R. La fibronectina plasmatica nella cirrosi epatica. XXXV Congresso Nazionale A.I.P.C., Padova April 24-27, 1985
- 60.** Miatto O., Gabrielli G.B., G. Bellisola, Casaril M., Corrocher R., De Sandre G. Serum copper as non-invasive screening test in liver tumors. XVIII Meeting E.A.S.L., Southampton (England), Sept.1-3, 1983
- 61.** Gabrielli G.B., Casaril M., Perbellini S., G. Bellisola, Nicoli N., Corrocher R. Age-dependent glutathione-peroxidase activity in normal and pathologic liver and its inhibition by bromosulphalein. XVIII Meeting E.A.S.L., Southampton (England), Sept.1-3, 1983.
- 62.** Casaril M., Gabrielli G.B., G. Bellisola, Miatto O., Nicoli N., Corrocher R. Glutathione-peroxidase (GSH-Px) activity in liver tumors. XVIII Meeting E.A.S.L., Southampton (England), Sept.1-3, 1983.
- 63.** Casaril M., Carloni M.C., G. Bellisola, Gabrielli G.B., Miatto O., Perbellini S., Stefani L. In vitro inhibition of liver glutathione-peroxidase by BSP. A.I.S.F., Roma 3-4 Giugno, 1982
- 64.** Casaril M., G. Bellisola, Carloni M.C., Gabrielli G.B., Miatto O., Perbellini S., Schiavon R. Significance of coagulation and fibrinolysis defects in liver cirrhosis. A.I.S.F., Roma 3-4 Giugno, 1982
- 65.** Miatto O., Casaril M., G. Bellisola, Carloni M.C., Gabrielli G.B., Perbellini S., Nicoli N. Prognostic value of serum copper in hepatic tumors. A.I.S.F., Roma 3-4 Giugno, 1982.

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2016, March