

Daniela Cecconi

curriculum vitae

<i>Business Address:</i>	University of Verona, Dept. of Biotechnology, Strada le Grazie 15, 37134 Verona, Italy	<i>Phone:</i>	0039-045-8027056
		<i>e-mail:</i>	daniela.cecconi@univr.it
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ACADEMIC APPOINTMENTS:

2017 - Present

Associate Professor (Analytical Chemistry, 03/A1), Department of Biotechnology, University of Verona

2007 - 2017

Assistant Professor (Analytical Chemistry, 03/A1), Department of Biotechnology, University of Verona

ITALIAN NATIONAL SCIENTIFIC HABILITATION

- 2018, 28th March, as Full Professor in Analytical Chemistry (scientific sector 03/A1)
- 2018, 28th March, as Full Professor in Biochemistry (scientific sector 05/E1)

EDUCATION:

2002 - 2004

Doctorate in Environmental and Industrial Biotechnologies (University of Verona, Italy). Title of PhD

Thesis: "Comparative proteomics analysis: innovative approaches and biomedical applications".

Supervisor: Prof. P.G. Righetti; Coordinator: Prof. H. Monaco.

Grade: *excellent*

1995 - 2001

Master Degree in Biotechnology, 24th July 2001 (University of Verona, Italy). Title of research Thesis:

"Comparative analysis of rat-plasma and serum after chronic treatment with nicotine or saline solution". Supervisors: Prof. P.G. Righetti and Dr. E. Domenici (Dept. of Molecular Medicine, GlaxoSmithKline).

Grade: *110/110 cum laude*

1990 - 1995

Diploma as Technician of chemical-biological laboratory Professional Institute "E. Fermi" (Verona, Italy).

Grade: *60/60*

RESEARCH ACTIVITY

Principal investigator of Mass Spectrometry & Proteomics Lab

Since 2007, D. Cecconi coordinates and directs the research group of the Laboratory of Proteomics and Mass Spectrometry, Department of Biotechnology, University of Verona.

D. Cecconi has been referent of the Technology Platforms Center of University of Verona for the mass spectrometer nanoHPLC Chip ion trap MS for proteomics analysis (2004-2017).

Research interests:

Prof. Daniela Cecconi is Associate Professor for the scientific-disciplinary sector Analytical Chemistry and she has a consolidated experience in Proteomic analyses. Her research activities mainly involve electrophoretic and chromatographic approaches, mass spectrometry and bioinformatics analysis applied to proteomics.

In particular, her research studies are focused on:

- development of analytical methodologies for proteomic analysis
- identification of protein biomarkers and characterization of altered molecular mechanisms in human pathologies (cancer, but not only)
- characterization of the molecular mechanisms of action of new antitumor agents
- proteomic characterization of matrices, such as agri-food sample and/or microorganisms

Main international and national scientific collaborations

The research group directed by C.D. it is characterized by collaborations at national and international level. Internationally, there are collaborations with the University of Cambridge – Babraham Institute (Prof. Michael Wakelam), University of Liverpool (UK) (Prof. Eithne Costello-Goldring, Pancreas Biomedical Research Unit, for proteomic analysis of pancreatic cancer) and with the University of Graz (Austria) (Prof.ssa Ruth Birner-Gruenberger, Functional Proteomics and Metabolic Pathways Unit, for proteomic analysis of cardiovascular diseases). At the national level C.D. has collaborated and is still collaborating with many research groups not only from University of Verona, but also for example from University of Padua, as well as from University of Eastern Piedmont, of Tuscia, and Insubria.

Theoretical-practical training courses (analytical chemistry)

- “MALDI TOF/TOF UltrafleXtreme: training course”, Bruker Daltonik (Verona, 22-23/2/2018)
- “Microscopy course: from stereo microscope to super resolution”, Nikon (Verona, 31/1/2018)
- “Multivariate statistical analysis for proteomic data”, Simca (Verona 21/3/2013)
- “Protein Quantification by High Resolution Mass Spectrometry”, Waters SpA (Milano 30/10/2012)
- “Inductively coupled plasma mass spectrometry ICP-MS”, Agilent (Verona, 3/10/2011)
- “nanoESI-HPLC MS/MS: training course biomolecules”, Bruker (Brema, Germania, 23-25/1/2006)

GRANTS SUPPORTS

Research Projects and fundings (as Coordinator and/or participant)

- 2017-2020 *POR-FESR 2014-2020* Fondo Europeo di Sviluppo Regionale “Nuovo piano industriale del lattiero-caseario Veneto” (6/11/2017-30/06/2020). Coordinator UNIVR Unit.
- 2017-2013 *COST Action* (BM1204), EU Pancreas “An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease”. Expert member, WG 3: Translational research. <http://eupancreas.com/wg3>.
- 2017 *Joint Project 2017*, University call for the implementation of joint projects with companies and organizations “Medicated bioactive spray for skin healing”. Scientific Coordinator.
- 2014 *Joint Project 2014*, University call for the implementation of joint projects with companies and organizations “Probiotic-containing chewing-gum production: purification and characterization of bacteriocins of *Lactobacillus salivarius*”. Scientific Coordinator.
- 2014 *Technical-scientific consulting* for Caseificio Elda s.r.l. Scientific Coordinator.
- 2013 *Contract for commissioned research* by Sintal Dietetics s.r.l. Scientific Coordinator.
- 2011 *Cariverona Foundation*. Verona Nanomedicine Initiative 2011 (3 years) “WP2. Nanotecnologie nello sviluppo di molecole e di sistemi/protocolli innovativi applicati alla diagnostica delle patologie cardiovascolari.” Participant. Principal investigator of research group for biomarkers discovery.
- 2010 *Contract for commissioned research* by Dipartimento di Sanità pubblica, Patologia, Università degli Studi di Padova. Scientific Coordinator.
- 2010 *FIRB "Futuro in ricerca"* project with positive evaluation “Next generation technologies for the investigation of B-cell lymphoma”. Scientific Coordinator.
- 2009 *Joint Project 2009*, University call for the implementation of joint projects with companies and organizations “Identificazione e caratterizzazione di proteine e peptidi bioattivi poco abbondanti del siero di latte”. Scientific Coordinator.
- 2008 *Italian Association for Cancer Research* AIRC (My First AIRC Grant) “An integrated approach to the study of mantle cell lymphoma”. Participant.
- 2005 *Italian Association for Cancer Research* AIRC “Expression profiling in the diagnosis and prognosis of lymphoid tissue neoplasms”. Participant.
- 2003 *Cariverona Foundation*. “Analisi proteomica del carcinoma pancreatico e delle sue variazioni in seguito ad eventi epigenetici in linee cellulari”. Participant.
- 2003 *Fund for investment in basic research* FIRB “Sviluppo di tecnologie avanzate per lo studio della proteomica differenziale del segnale (segnalo-proteomica). Participant.
- 2003 *Italian Association for Cancer Research* AIRC “Proteomic profiling of pancreatic cancer cells treated with methylating, acetylating and deacetylating drugs”. Participant.
- 2002 *Glaxo* “Evaluation of 2D gel electrophoresis-based proteomics for identification of peripheral markers”. Participant.
- 2001 *EU project*, FP5-LIFE Quality “Microproteomics: new microfluidic-mass spectrometry technologies for high performance proteomics” QLG2-CT-2001-01903. Participant.
- 2000 *Research projects of national interest* PRIN “Un nuovo approccio integrato per l’analisi del proteoma”. Participant.

Conference Activities

- **Session Co-Chair**, 7th "Annual Conference of AnalytiX-2019 (Europe)" (Berlin, Germany, 13-15 november 2019).
- **Conference Co-Chair, Scientific and Organizing Committee**, 2nd "International Proteomics and Metabolomics Conference and Advanced Proteomic School" (University of Verona, 1-2 July 2019).
- **Conference Co-Chair, Scientific and Organizing Committee**, 1st "International Proteomics and Metabolomics Conference and Advanced Proteomic School" (University of Novara, 25-26 June 2018).
- **Scientific Committee**, "Organoid Models and Applications in Biomedical Research" workshop (University of Verona, March 8, 2018).
- **Organizing Committee**, 1st Congress of the Italian Proteome Society (IPSo) (Verona, 27-29 May 2004).

Professional society

- **Member**, Analytical Chemistry Division of the Italian Chemical Society (SCI).
- **Supporting Member**, Mass Spectrometry Division of the Italian Chemical Society (SCI).

Editorial Board of scientific journals

- **Editorial Board member**, since 2017, "*Journal of Proteomics*", IF: 3.537 indexed on Scopus.
- **Associated Editor**, since 2012, "*Journal of Integrated OMICS*", indexed on Scopus.

Awards

- **First Poster Award**, "Analysis of rat serum proteome after chronic nicotine treatment". Cecconi, D., Carboni, L., Domenici, E., Righetti, P.G. (Centro Ricerche GlaxoSmithKline, Verona, 10-13 giugno 2001). ICES International Council of Electrophoresis Societies 2001: An Electrophoretic Odyssey.

Referee activity for funding programs

- For projects financed by Agency for the quality and health assessment of Catalonia (AQUAS) 2019
- For projects financed by the French National Research Agency (ANR) 2018
- For senior research grants for the University of Insubria 2016
- For the scientific evaluation of Italian research "Futuro in Ricerca 2013"
- Registered in "REPRISE" Register of Expert Peer Reviewers for Italian Scientific Evaluation of MIUR since 2015

Peer-reviewer activity for scientific journals

The FEBS journal, Biochemical Pharmacology, Expert Review of Proteomics, Food Chemistry, Food Microbiology, Functional & Integrative Genomics, International Journal of Cancer, International Journal of Experimental Pathology, Italian Journal of Food Science, Journal of Integrative Plant Biology, Journal of Proteome Research, Journal of Proteomics, Molecular Biology Reports, Molecular Biotechnology, Oncology Reports, PLoS ONE, Proteomics and Clinical Applications, Proteomics, Seminars in Cancer Biology.

SCIENTIFIC PRODUCTION

Author h-index: [27](#)

Scientific publications in indexed journals with Impact Factor

- 1) "Investigating the Proteomic Profile of HT-29 Colon Cancer Cells After Lactobacillus kefir SGL 13 Exposure Using the SWATH Method" Brandi J, Di Carlo C, Manfredi M, Federici F, Bazaj A, Rizzi E, Cornaglia G, Manna L, Marengo E, Cecconi D., *J Am Soc Mass Spectrom.* 2019 30(9): 1690-1699.
- 2) "Runx2 stimulates neoangiogenesis through the Runt domain in melanoma" Cecconi D., Brandi J, Manfredi M, Serena M, Carbonare LD, Deiana M, Cheri S, Parolini F, Gandini A, Marchetto G, Innamorati G, Avanzi F, Antoniazzi F, Marengo E, Tiso N, Mottes M, Zipeto D, Valenti MT., *Sci Rep.* 2019 May 29;9(1):8052.
- 3) "Extracellular Vesicles Mediate Mesenchymal Stromal Cell-Dependent Regulation of B Cell PI3K-AKT Signaling Pathway and Actin Cytoskeleton" Adamo A, Brandi J, Caligola S, Delfino P, Bazzoni R, Carusone R, Cecconi D., Giugno R, Manfredi M, Robotti E, Marengo E, Bassi G, Takam Kamga P, Dal Collo G, Gatti A, Mercuri A, Arigoni M, Olivero M, Calogero RA, Krampera M., *Front Immunol.* 2019; 10: 446.
- 4) "Integrated serum proteins and fatty acids analysis for putative biomarker discovery in inflammatory bowel disease" Manfredi, M., Conte, E., Barberis, E., Buzzi, A., Robotti, E., Caneparo, V., Cecconi, D., Brandi, J., Vanni, E., Finocchiaro, M., Astegiano, M., Gariglio, M., Marengo, E., De Andrea, M., *J Proteomics* 2019 Mar 20; 195: 138-149.
- 5) "Plasma Proteome Profiles of Stable CAD Patients Stratified According to Total Apo CIII Levels" Manfredi, M., Chiariello, C., Conte, E., Castagna, A., Robotti, E., Gosetti, F., Patrone, M., Martinelli, N., Bassi, A., Cecconi, D., Marengo, E., Olivieri, O., *Proteomics Clin Appl.* 2019 Jul 10:e1800023.
- 6) "Pancreatic cancer stem cells: Perspectives on potential therapeutic approaches of pancreatic ductal adenocarcinoma" Di Carlo, C., Brandi, J., Cecconi, D., *World Journal of Stem Cells* 2018; 10: 172-182.
- 7) "New Insights into the Runt Domain of RUNX2 in Melanoma Cell Proliferation and Migration" Deiana M, Dalle Carbonare L, Serena M, Cheri S, Parolini F, Gandini A, Marchetto G, Innamorati G, Manfredi M, Marengo E, Brandi J, Cecconi D., Mori A, Mina MM, Antoniazzi F, Mottes M, Tiso N, Malerba G, Zipeto D, Valenti MT. *Cells.* 2018 Nov 20;7(11). pii: E220. doi: 10.3390/cells7110220.
- 8) "Acute Sarcomeric M-Line Disease Associated with ATP Synthase Subunit α Autoantibodies in Ankylosing Spondylitis" Guglielmi, V., Vattemi, G., Cecconi, D., Fracasso, G., Marini, M., Tomelleri, G., *J Neuropathol Exp Neurol.* 2018 Nov 1;77(11):987-992.
- 9) "Sialylated isoforms of apolipoprotein C-III and plasma lipids in subjects with coronary artery disease" Olivieri O, Chiariello C, Martinelli N, Castagna A, Speziali G, Girelli D, Pizzolo F, Bassi A, Cecconi, D., Robotti, E., Manfredi, M., Conte, E., Marengo, E., *Clin Chem Lab Med.* 2018; 56:1542-1550.
- 10) "Myristic acid induces proteomic and secretomic changes associated with steatosis, cytoskeleton remodeling, endoplasmic reticulum stress, protein turnover and exosome release in HepG2 cells" Speziali, G., Liesinger, L., Gindlhuber, J., Leopold, C., Pucher, B., Brandi, J., Castagna, A., Tomin, T., Krenn, P., Thallinger, G.G., Olivieri, O., Martinelli, N., Kratky, D., Schittmayer, M., Birner-Gruenberger, R., Cecconi, D., *J Proteomics* 2018; 181: 118-130.
- 11) "Proteomic approaches to decipher cancer cell secretome" Brandi J., Manfredi M., Speziali G., Gosetti F., Marengo E., Cecconi D., *Semin Cell Dev Biol.* 2018; 78: 93-101.

- 12) "Trichostatin A alters cytoskeleton and energy metabolism of pancreatic adenocarcinoma cells: an in depth proteomic study". Pozza, E.D., Manfredi, M., Brandi, J., Buzzi, A., Conte, E., Pacchiana, R., Cecconi, D., Marengo, E., Donadelli, M., *Journal of Cellular Biochemistry* 2018; 119: 2696-2707.
- 13) "Purification and characterization of ribosomal proteins L27 and L30 having antimicrobial activity produced by the *Lactobacillus salivarius* SGL 03" Pidutti, P., Federici, F., Brandi, J., Manna, L., Rizzi, E., Marini, U., Cecconi, D. *Journal of Applied Microbiology* 2018; 124: 398-407.
- 14) "Can half-marathon affect overall health? The yin-yang of sport" Dalle Carbonare, L., Manfredi, M., Caviglia, G., Conte, E., Robotti, E., Marengo, E., Cheri, S., Zamboni, F., Gabbiani, D., Deiana, M., Cecconi, D., Schena, F., Mottes, M., Valenti, M.T., *Journal of Proteomics* 2018; 170: 80-87.
- 15) "An integrated approach identifies new oncotargets in melanoma" Cecconi, D., Dalle Carbonare, L., Mori, A., Cheri, S., Deiana, M., Brandi, J., Degaetano, V., Masiero, V., Innamorati, G., Mottes, M., Malerba, G., Valenti, M.T., *Oncotarget* 2017; 9: 11489-11502.
- 16) "IEF peptide fractionation method combined to shotgun proteomics enhances the exploration of rice milk proteome" Manfredi, M., Brandi, J., Conte, E., Pidutti, P., Gosetti, F., Robotti, E., Marengo, E., Cecconi, D., *Anal Biochem.* 2017; 537:72-77.
- 17) "Proteomic analysis of pancreatic cancer stem cells: Functional role of fatty acid synthesis and mevalonate pathways" Brandi, J., Dando, I., Pozza, E.D., Biondani, G., Jenkins, R., Elliott, V., Park, K., Fanelli, G., Zolla, L., Costello, E., Scarpa, A., Cecconi, D., Palmieri, M., *J of Proteomics* 2017; 150: 310-322.
- 18) "Selenite biotransformation and detoxification by *Stenotrophomonas maltophilia* SeITE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles" Lampis, S., Zonaro, E., Bertolini, C., Cecconi, D., Monti, F., Micaroni, M., Turner, R.J., Butler, C.S., Vallini, G. *J Hazard Mater* 2017; 324: 3-14.
- 19) "The antioxidant uncoupling protein 2 stimulates hnRNPA2/B1, GLUT1 and PKM2 expression and sensitizes pancreas cancer cells to glycolysis inhibition" Brandi, J., Cecconi, D.*, Cordani, M., Torrens-Mas, M., Pacchiana, R., Dalla Pozza, E., Butera, G., Manfredi, M., Marengo, E., Oliver, J., Roca, P., Dando, I., Donadelli, M., *Free Radical Biology and Medicine* 2016; 101: 305-316. (*CD share the first authorship)
- 20) "Post-harvest proteomics of grapes infected by *Penicillium* during withering to produce Amarone wine" Lorenzini, M., Mainente, F., Zapparoli, G., Cecconi, D., Simonato, B., *Food Chem.* 2016; 199: 639-47.
- 21) "Secretome protein signature of human pancreatic cancer stem cells" Brandi, J., Dalla Pozza, E., Dando, I., Biondani, G., Robotti, E., Jenkins, R., Elliott, V., Park, K., Marengo, E., Costello, E., Scarpa, A., Palmieri, M., Cecconi, D., *J of Proteomics* 2016; 136: 1-12.
- 22) "Grapevine Downy Mildew *Plasmopara viticola* Infection Elicits the Expression of Allergenic Pathogenesis-Related Proteins" Rossin, G., Villalta, D., Martelli, P., Cecconi, D., Polverari, A., Zoccatelli, G., *Int Arch Allergy Immunol.* 2015; 168:90-5.
- 23) "Study on the Immunoreactivity of *Triticum monococcum* (Einkorn) Wheat in Patients with Wheat-Dependent Exercise-Induced Anaphylaxis for the Production of Hypoallergenic Foods" Lombardo, C., Bolla, M., Chignola, R., Senna, G., Rossin, G., Caruso, B., Tomelleri, C., Cecconi, D., Brandolini, A., Zoccatelli, G., *J Agric Food Chem.* 2015; 63: 8299-306.
- 24) "Tissue proteomics of splenic marginal zone lymphoma" Polati, R., Brandi, J., Dalai, I., Zamò, A., Cecconi, D., *Electrophoresis* 2015; 36: 1612-1621.
- 25) "Pancreatic ductal adenocarcinoma cell lines display a plastic ability to bi-directionally convert into cancer stem cells" Dalla Pozza, E., Dando, I., Biondani, G., Brandi, J., Costanzo, C., Zoratti, E., Fassan,

- M., Boschi, F., Melisi, D., Cecconi, D., Scupoli, M.T., Scarpa, A., Palmieri, M., *Int J Oncol.* 2015; 46: 1099-108.
- 26) "Red wine proteins: Two dimensional (2-D) electrophoresis and mass spectrometry analysis" Mainente, F., Zoccatelli, G., Lorenzini, M., Cecconi, D., Vincenzi, S., Rizzi, C., Simonato, B., *Food Chemistry* 2014; 164: 413-417.
- 27) "Improvements to polar 2-D electrophoresis for proteomic applications" Polati, R., Cecconi, D., Dosselli, R., Zaccarin, M., Millionsi, R., *Amino Acids.* 2014, 46: 1143-46. (*CD share the first authorship)
- 28) "Local and Systemic Proteomic Changes in *Medicago Truncatula* at an Early Phase of *Sinorhizobium meliloti* Infection" Molesini, B., Cecconi, D.*, Pii, Y., Pandolfini, T., *J Proteome Res.* 2014 Feb 7; 13: 408-21. (*CD share the first authorship)
- 29) "Urinary protease inhibitor Serpin B3 is higher in women and is further increased in female patients affected by aldosterone producing adenoma" Olivieri, O., Cecconi, D., Castagna, A., Chiecchi, L., Guarini, P., Gunasekaran, M., Morandini, F., Brazzarola, P., Zolla, L., D'Alessandro, A., Veglio, F., Mulatero, P., Pizzolo, F., *Mol Biosyst.* 2014; 10: 1281-1289.
- 30) "Pros and cons of peptide isoelectric focusing in shotgun proteomics" Millionsi, R., Franchin, C., Tessari, P., Polati, R., Cecconi, D., Arrigoni, G., *J Chromatogr A.* 2013; 1293: 1-9.
- 31) "Comparative proteomic and phosphoproteomic profiling of pancreatic adenocarcinoma cells treated with CB1 or CB2 agonists" Brandi, J., Dando, I., Palmieri, M., Donadelli, M., Cecconi, D., *Electrophoresis* 2013; 34: 1359-1368.
- 32) "Expression of α -amylase inhibitors in diploid *Triticum* species", Zoccatelli, G., Segal, M., Bolla, M., Cecconi, D., Vaccino, P., Rizzi, C., Chignola, R., Brandolini, A., *Food Chemistry* 2012; 135 (4): 2643-2649.
- 33) "Proteomic changes involved in tenderization of bovine *Longissimus dorsi* muscle during prolonged aging" Polati, R., Menini, M., Robotti, E., Millionsi, R., Marengo, E., Novelli, E., Balzan, S., Cecconi, D., *Food Chemistry* 2012; 135: 2052-2069.
- 34) "Discovery and verification of panels of T-lymphocyte proteins as biomarkers of Parkinson's disease". Alberio, T., Pippione, A.C., Zibetti, M., Olgiati, S., Cecconi, D., Comi, C., Lopiano, L., Fasano, M., *Scientific Reports* 2012; 2: 1-10, Article number 953. doi: 10.1038/srep00953.
- 35) "Dopaminergic therapies modulate the T-CELL proteome of patients with Parkinson's disease" Alberio, T., Pippione, A.C., Comi, C., Olgiati, S., Cecconi, D., Zibetti, M., Lopiano, L., Fasano, M., *IUBMB Life* 2012; 64 (10): 846-852.
- 36) "*Pseudomonas putida* response to cadmium: changes in membrane and cytosolic proteomes" Manara, A., DalCorso, G., Baliardini, C., Farinati, S., Cecconi, D. and Furini, A., *J of Proteome Research* 2012; 11: 4169-4179.
- 37) "GENOCOP algorithm and Hierarchical Grid Transformation for image warping of two dimensional gel electrophoretic maps" Marengo, E., Cocchi, M., Demartini, M., Robotti, E., Cecconi, D. and Calabrese, G., *Molecular BioSystems* 2012; 8 (4): 975-984.
- 38) "Proteomic analysis of the compatible interaction between *Vitis vinifera* and *Plasmopara viticola*" Milli A, Cecconi D*, Bortesi L, Persi A, Rinalducci S, Zamboni A, Zoccatelli G, Lovato A, Zolla L, Polverari A., *J of Proteomics* 2012; 75: 1284-1302. (*CD share the first authorship)
- 39) "Polar electrophoresis: shape of two-dimensional maps is as important as size" Millionsi, R., Polati, R., Menini, M., Puricelli, L., Miuzzo, M., Tessari, P., Novelli, E., Righetti, P.G., Cecconi, D., *PLoS ONE* 2012; 7 (1): e30911. doi:10.1371/journal.pone.0030911
- 40) "Changes in amniotic fluid and umbilical cord serum proteomic profiles of fetuses with intrauterine growth retardation" Cecconi, D., Lonardoni, F., Favretto, D., Cosmi, E., Tucci, M., Visentin, S., Cecchetto, G., Fais, P., Viel, G., and Ferrara, S.D., *Electrophoresis* 2011; 32(24): 3630-7.

- 41) "Female urinary proteomics: New insight into exogenous and physiological hormone-dependent changes." Castagna, A., Olivieri, O., Milli, A., Dal Bosco, M., Timperio, A.M., Zolla, L., Gunasekaran, M., Raffaelli, R., Pizzolo, F., Cecconi, D., *Proteomics Clin Appl.* 2011; 5: 343-53.
- 42) "Phospho-proteomic analysis of mantle cell lymphoma cells suggests a pro-survival role of B-cell receptor signaling" Pighi, C., Gu, T-L., Dalai, I., Barbi, S., Parolini, C., Bertolaso, A., Pedron, S., Parisi, A., Ren, J., Cecconi, D., Chilosi, M., Menestrina, F., Zamò, A., *Cellular Oncology* 2011; 34: 141-53.
- 43) "Proteomic analysis of cellular response to novel proapoptotic agents related to atypical retinoids in human IGROV-1 ovarian carcinoma cells." Milli, A., Perego, P., Beretta, G., Corvo, A., Righetti, P.G., Carenini, N., Corna, E., Zuco, V., Zunino, F., Cecconi, D., *J Proteome Res.* 2011; 10: 1191-1207.
- 44) "2D immunomic approach for the study of IgG autoantibodies in the experimental model of multiple sclerosis" Farinazzo, A., Gini, B., Milli, A., Ruffini, F., Marconi, S., Turano, E., Anghilieri, E., Barbieri, F., Cecconi, D., Furlan, R., Bonetti, B., *J Neuroimmunol.* 2011; 232: 63-7.
- 45) "Proteomics of human cancer tissues and cells" Cecconi, D., Zamò A., *Trends in Analytical Chemistry* 2011; 30: 346-59.
- 46) "Proteomics in pancreatic cancer research" Cecconi, D., Palmieri, M., Donadelli, M., *Proteomics* 2011; 11: 816-28.
- 47) "Improved instrumentation for large-size two-dimensional protein maps" Millionsi, R., Miuzzo, M., Puricelli, L., Iori, E., Sbrignadello, S., Dosselli, R., Cecconi, D., Tessari, P., Righetti, P.G., *Electrophoresis* 2010; 31: 3863-6.
- 48) "Proteomic analysis of lymphoid and haematopoietic neoplasms: there's more than biomarker discovery" Zamò, A., Cecconi, D., *J of Proteomics* 2010; 73: 508-20.
- 49) "Proteomic analysis of *Arabidopsis halleri* shoots in response to the heavy metals Cadmium and Zinc and rhizosphere microorganisms" Farinati, S., Dal Corso, G., Bona, E., Corbella, M., Lampis, S., Cecconi, D., Polati, R., Berta, G., Vallini, G., Furini, A., *Proteomics* 2009; 9: 4837-50.
- 50) "Proteomic analysis of *Oenococcus oeni* freeze-dried culture to assess the importance of cell acclimation to conduct malolactic fermentation in wine" Cecconi, D., Milli, A., Rinalducci, S., Zolla, L., Zapparoli, G., *Electrophoresis* 2009; 30: 2998-3005.
- 51) "Protein nitration during defense response in *Arabidopsis thaliana*" Cecconi, D., Orzetti, S., Vandelle, E., Rinalducci, S., Zolla, L., and Delledonne, M., *Electrophoresis* 2009; 30: 2460-2468.
- 52) "Effect of tannic acid on *Lactobacillus plantarum* wine strain during starvation: A proteomic study" Cecconi, D., Cristofolletti, M., Milli, A., Antonioli, P., Rinalducci, S., Zolla, L., Zapparoli, G., *Electrophoresis* 2009; 30: 957-965.
- 53) "Synergistic effect of trichostatin A and 5-aza-2'-deoxycytidine on growth inhibition of pancreatic endocrine tumour cell lines: A proteomic study" Cecconi, D., Donadelli, M., Dalla Pozza, E., Rinalducci, S., Zolla, L., Scupoli, M.T., Righetti, P.G., Scarpa, A., Palmieri, M., *Proteomics* 2009; 9(7): 1952-66.
- 54) "Signal transduction pathways of mantle cell lymphoma: a phosphoproteome-based study" Cecconi, D., Zamò, A., Bianchi, E., Parisi, A., Barbi, S., Milli, A., Rinalducci, S., Rosenwald, A., Hartmann, E., Zolla, L., Chilosi, M., *Proteomics* 2008; 8: 4495-506.
- 55) "A proteomic approach for evaluating the cell response to a novel histone deacetylase inhibitor in colon cancer cells" Milli, A., Cecconi, D., Campostrini, N., Timperio, A.M., Zolla, L., Righetti, S.C., Zunino, F., Perego, P., Benedetti, V., Gatti, L., Odreman, F., Vindigni, A., Righetti, P.G., *BBA - Proteins and Proteomics* 2008; 1784: 1702-10.
- 56) "Induction of Apoptosis in Jeko-1 Mantle Cell Lymphoma Cell Line by Resveratrol: A Proteomic Analysis" Cecconi, D., Zamò, A., Parisi, A., Bianchi, E., Parolini, C., Timperio, A.M., Zolla, L., Chilosi, M., *J Proteome Res.* 2008; 7: 2670-80.

- 57) "Serum proteomic analysis during nicotine self-administration, extinction and relapse in rats" Cecconi, D., Tessari, M., Willè, D., Zoli, M., Domenici, E., Righetti, P.G., Carboni, L., *Electrophoresis* 2008; 29: 1525-1533.
- 58) "Application of Partial Least Squares Discriminant Analysis and variable selection procedures: a 2D-PAGE Proteomic-Based Study" Marengo, E., Robotti, E., Bobba, M., Milli, A., Campostrini, N., Righetti, S.C., Cecconi D. and Righetti P.G., *Anal. Bioanal. Chemistry* 2008; 390: 1327-42
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- 62) "Proteomic analysis of pancreatic ductal carcinoma cells after combined treatment with gemcitabine and trichostatin A" Cecconi, D., Donadelli, M., Scarpa, A., Milli, A., Palmieri, M., Hamdan, M., Rappsilber, J., Areces, L.B., Righetti, P.G., *J. Proteome Res.* 2005; 4: 1900-1916.
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- 1) Cecconi D. "Comparative Evaluation of Software Features and Performances", Chapter 4, pp 69-78, in *Methods in Molecular Biology* Volume 1384: *2D PAGE Map Analysis - Methods and Protocols*, Emilio Marengo and Elisa Robotti (Editors), 2016, New York, Springer, ISBN: 978-1-4939-3255-9.
- 2) Castagna, A., Cecconi, D., Boschetti, E., Righetti, P.G. "Prefractionation of urinary proteins", Chapter 15, pp. 201-217, in: *Renal and Urinary Proteomics: Methods and Protocols*, Visith Thongboonkerd (Editor) 2009, New York, Wiley-VCH, ISBN: 978-3-527-31974-9.
- 3) Righetti, P.G., Cecconi, D., Campostrini, N., Antonioli, P. "Omics: Proteomics/Pre-fractionation for Hidden Proteome", pp. 1-11 in: *Encyclopedia of Separation Science, first online update*, Colin F. Poole and Ian D. Wilson (Editors), 2007, Oxford, Elsevier Science Ltd. ISBN: 978-0-12-226770-3.
- 4) Righetti, P.G., Antonioli, P., Campostrini, N., Cecconi, D. "Omics: Proteomics/Quantitative Proteomics", pp. 1-10 in: *Encyclopedia of Separation Science, first online update*, Colin F. Poole and Ian D. Wilson (Editors), 2007, Oxford, Elsevier Science Ltd. ISBN: 978-0-12-226770-3.
- 5) Righetti, P.G., Bossi, A., Castagna, A., Antonucci, F., Cecconi, D., Campostrini, N. "Conventional isoelectric focusing in gel slabs and capillaries and immobilized pH gradients" Chapter 13, in *Protein Purification: Principles. High-resolution Methods and Applications*. J.C. Janson & L. Rydén (Editors) 3rd Edition, 2004, New York, Wiley-VCH. ISBN: 978-0-471-74661-4.

Contributions and abstracts in conference proceedings (Scopus and/or WoS indexed)

- 1) "Characterization of mesenchymal stromal cell-derived extracellular vesicles and correlation with their immunosuppressive properties towards B cells" Adamo, A.; Brandi, J.; Carusone, R.; et al. Conference: 15th Congress of the Italian-Society-of-Experimental-Hematology Location: Rimini, ITALY Date: OCT 18-20, 2018 Sponsor(s): Italian Soc Expt Hematol HAEMATOLOGICA, vol. 103 Suppl: 3 Pages: S65-S66 Meeting Abstract: CO094 Published: OCT 17 2018
- 2) "Proteomic Signature of PDAC Cells with Mutant p53" Manfredi, M., Butera, G., Buzzi, A., Brandi, J., Cecconi, D., Marengo, E., Donadelli, M., (2018) FASEB JOURNAL, vol. 32, Meeting Abstract: 804.38. In:

Annual Meeting of American Society for Biochemistry and Molecular Biology ASBMB, San Diego, CA, 21-25 April 2018; ISSN: 0892-6638.

3) "Molecular characterization of MSC-derived extracellular vesicles and correlation with their immunomodulatory potential" Adamo, A., Brandi J., Carusone R., Caligola S., Cecconi D., Giugno R., Manfredi M., Robotti E., Marengo E., Dal Collo G., Bazzoni R., Arigoni M., Calogero R., Gatti A., Takam Kamga P., Mercuri A., Krampera M. (2018) CYTOTHERAPY, vol. 20 (5), p.S22; In: International Society for Cellular Therapy ISCT Annual Meeting, Montreal Canada, 2-5 May 2018; doi: 10.1016/j.jcyt.2018.02.049, ISSN: 1465-3249.

4) "Proteomic study of the outer layer of biogenic selenium nanoparticles" Bulgarini, A., Cecconi, D., Lampis, S., Vallini, G. (2016) World congress on recent advances in nanotechnology, 1p; In: Proceedings of the World Congress on Recent Advances in Nanotechnology RAN 2016, Prague Czech Republic, 1-2 April 2016, doi: 10.11159/icnnfc16.114, ISSN: 23715308.

5) "Myristic acid plasma levels are strongly correlated with triglyceride and Apolipoprotein C-III plasma concentration in a cohort of subjects with or without coronary artery disease" Speziali, G., Cecconi, D., Martinelli, N., Olivieri, O., Castagna, A., Guarini, P. (2016) ATHEROSCLEROSIS, vol. 252, p. e119, In: 84th Congress of European Atherosclerosis Society (EAS), Innsbruck Austria, 29 May-1 June 2016, ISSN: 0021-9150.

6) "Apolipoprotein C-III glycoforms correlate heterogeneously with plasma lipid profile in subjects with coronary artery disease" Chiariello, C., Castagna, A., Martinelli, N., Guarini, P., Manfredi, M., Ranzato, E., Martinotti, S., Marengo, E., Cecconi, D., Olivieri, O. (2016) ATHEROSCLEROSIS, vol. 252, p. e100, In: 84th Congress of European Atherosclerosis Society (EAS), Innsbruck Austria, 29 May-1 June 2016, ISSN: 0021-9150.

7) "Elemental selenium nanoparticles efficiently bio-synthesized by Stenotrophomonas maltophilia SeTE02 possess promising antimicrobial activity" Lampis, S., Zonaro, E., Bertolini, C., Cecconi, D., Turner, R., Vallini, G. (2015) in Book of Abstracts of the 6th European Bioremediation Conference , Technical University of Crete , Proceedings of "6th European Bioremediation Conference", Chania - Crete, Greece , June 29 - July 2, 2015 , 2015 , pp. 297-297. ISBN: 9789608475236

8) "Grapevine-mould Plasmopara viticola infection (downy mildew) elicits the expression of allergenic PR-proteins" Zoccatelli, G., Avesani, S., Giacomo, R., Cecconi, D., Lovato, A., Conte, M., Martelli, P., Villalta, D. (2015) ALLERGY, vol. 70 p.325-326. In: Congress of the European Academy of Allergy and Clinical Immunology, Barcelona, Spain 6-10 June 2015, ISSN: 0105-4538.

9) "Pancreatic cancer stem cells characterization and secretome analysis" Dando, I., Biondani, G., Dalla Pozza, E., Brandi, J., Costanzo, C., Cecconi, D., Palmieri, M. (2014) FEBS JOURNAL, vol. 281, p. 780. In: FEBS EMBO 2014 Conference. Paris, France, 30 August - 4 September 2014. ISSN: 1742-464X.

10) "Phospho-tyrosine profiling of mantle cell lymphoma cells suggests the BCR signalling pathway as a potential therapeutic target" Zamò, A., Pighi, C., Gu, T.-L., Mancini, F., Parolini, C., Pedron, S., Bertolaso, A., Parisi, A., Barbi, S., Polackiewicz, R., Cecconi, D., Chilosi, M., Menestrina, F. (2009) VIRCHOWS ARCHIV, In: 22nd European Congress of Pathology, Firenze, 4-9 September 2009, vol. 455, p. 252. ISBN: 1148546456, ISSN: 0945-6317.

11) "Pancreatic endocrine tumours, a proteomic investigation of the trichostatin-A antitumoral effect" Cecconi D., Donadelli M., Rinalducci S., Zolla, L., Scarpa A., Palmieri M., Bossi A., Righetti P.G. (2006) MOLECULAR & CELLULAR PROTEOMICS, In: Hupo - Human Proteome Organisation. 5th Annual World Congress, 2006. Long Beach, October 28th to November 1st, 2006, vol. 5, ISSN: 1535-9476

12) "Anticancer activity of a novel histone deacetylase inhibitor against human colorectal cancer cells" Campostrini, N., Cecconi D., Milli, A., Vindigni, A., Bossi, A., Righetti P.G. (2006) MOLECULAR &

CELLULAR PROTEOMICS, In: Hupo - Human Proteome Organisation. 5th Annual World Congress, 2006. Long Beach, October 28th to November 1st, 2006, vol. 5, ISSN: 1535-9476

13) "Serum proteomic analysis during nicotine self-administration, withdrawal, extinction and relapse in rats" Carboni L., Cecconi D., Willè D.R., Zoli M., Righetti P.G., Tessari M. (2005) EUROPEAN NEUROPSYCHOPHARMACOLOGY, In: 18th Congress of the European College of Neuropsychopharmacology, 25-26 October 2005, vol. 15, ELSEVIER SCIENCE BV, Amsterdam, Netherlands, ISSN: 0924-977X.

Oral presentation

1) "Investigating the Proteomic Profile of HT-29 Colon Cancer Cells after Lactobacillus kefir SGL 13 Exposure Using the SWATH Method" 7th "Annual Conference of AnalytiX-2019 Europe" (Berlin, Germany, 13-15 November 2019) invited speaker.

2) "Investigating the Proteomic Profile of HT-29 Colon Cancer Cells after Lactobacillus kefir SGL 13 Exposure Using the SWATH Method" XXVIII Congress of the Analytical Chemistry Division (Bari, Italy, 22 – 26 September 2019).

3) "Evaluation and comparison of gel-based and gel-free approaches for the in-depth exploration of milk rice proteome" XXVI National Congress of the Italian Chemical Society (Paestum, Italy, 10-14 September 2017).

4) "Proteomic strategies to analyze mantle cell lymphoma" XXII Congress of the Analytical Chemistry Division (Como, Italy, 12-16 September 2010).

5) "Proteomic Analysis of Mantle cell lymphoma: from pathogenesis to a proposal of a new therapy" (Centre for integrative Biology CIBIO, University of Trento, 27 November 2009).

6) "Analisi di campioni di interesse biomedico tramite approccio proteomico 2D-PAGE". Ricerca Genomica e Proteomica: Sinergie tra Tecnologie. (Bio-Rad Laboratories Srl, Segrate, Milano, 20 November 2008).

7) "Analisi proteomica di linfoma a cellule del mantello: dalla patogenesi alla proposta di una terapia innovativa". Nuove tecnologie e sviluppi nell'analisi del Proteoma, VI edizione. (University of Verona, 18 November 2008).

8) "Analisi di campioni di interesse biomedico tramite approccio proteomico 2D-PAGE". Ricerca Genomica e Proteomica: Sinergie tra Tecnologie. (Bio-Rad Laboratories Srl, Segrate, Milano, 7 June 2007; 15 november 2007).

9) "Serum proteomic analysis during nicotine self-administration, withdrawal, extinction and relapse in rats." XI Convegno Monotematico della Società Italiana di Farmacologia (SIF), Neurofarmacologia e Neurobiologia delle Dipendenze. (University of Bologna, 9 September 2005).

10) "Proteomic analysis of pancreatic ductal carcinoma cells after a combined treatment with Gemcitabine and Trichostatin-A". Seconda edizione Tour Europeo di seminari, Proteomics Alliance. (University of Verona, 6 July 2005).

11) "Proteomic analysis of pancreatic ductal carcinoma cells after a combined treatment with Gemcitabine and Trichostatin-A". II° Congresso dell'Italian Proteome Society (IPSo). (University of Tuscia, Viterbo, 31 May 2005).

12) "Carcinoma Pancreatico: Analisi Proteomica degli eventi epigenetici e trattamento con farmaci antitumorali". Giornate di Scienza delle Separazioni in collaborazione con Società Chimica Italiana. (CNR, Roma, Italy, 15 December 2003).

TEACHING

Teaching for Bachelor and Master Degrees at University of Verona:

AA 2017/18 - today:

"Expressional Proteomics" module (2 CFU) of "Research-inspired laboratory" course for Master Degree in Molecular and Medical Biotechnology.

AA 2015/16 - today:

"Clinical Proteomics" (6 CFU) for Master Degree in Molecular and Medical Biotechnology.

"Analytical techniques of Clinical chemistry " (6 CFU) for Bachelor Degree in Biotechnology.

AA 2015/16 - 2016/17:

"Proteomics" module (1 CFU) of "Research-inspired laboratory" for Master Degree in Molecular and Medical Biotechnology.

AA 2011/12 - 2013/14:

"Analytical and Clinical proteomics" (6 CFU), for Master Degree in Bioinformatics and Medical Biotechnologies.

AA 2009/10 - 2013/14:

"Molecular Analytical Methods" (9 CFU) for Master Degree in Agri-Food Biotechnology.

AA 2005/06 - 2009/10:

"Proteomics" (5 CFU), for Master Degree in Molecular-Industrial Biotechnology, and for Master Degree in Agri-Food Biotechnology.

AA 2002/03 - 2004/05:

Teaching assistance activities for laboratory of "Biochemical Methodologies" for Master Degree Course in Agro-Industrial Biotechnology (coordinator of the Prof Course PG Righetti).

Teaching for Doctorate:

1. "Advances in Mass Spectrometry based clinical biomarker discovery" Lezione per il Dottorato in Biotecnologie (Università di Verona, 27 ottobre 2016)
2. "Hands-on experience in Mass Spectrometry in Proteomics" Lezione su invito per Winter School, Scuola di Dottorato in Scienze Naturali e ingegneristiche (Fiera di Primiero Trento, 20 ottobre 2016)
3. "Metodologie avanzate in analisi trascrittomiche, proteomica, metabolomica e metodologie biochimiche". Lezione su invito per il Dottorato di ricerca in Biotecnologie Applicate (Università di Verona, 15 settembre 2009)
4. Proteomics and Oncology" Lezione su invito per il Dottorato di ricerca in Genetica e Biologia cellulare. (Università della Tuscia Viterbo, 12 giugno 2007)

Teaching for Advanced courses

AA 2015/16 - 2016/17:

Coordinator of the course "Chimica" (2 CFU) for Corso di Perfezionamento ed aggiornamento professionale in metodologie ortopedico-sanitarie, Dipartimento di Medicina, Università degli Studi di Verona.

Supervisor of Doctoral thesis

1. "Myristic acid: in vivo evaluation of connection with cardiovascular risk factors and in vitro proteomic investigations of its biochemical effects" Dott.ssa Giulia Speciali XXX cycle PhD in Biotechnologies (Univ. of Verona, 7 May 2018).
2. "In-depth characterization of the secretome of pancreatic cancer stem cells by iTRAQ-based shotgun proteomics and identification of potential markers for early diagnosis of pancreatic cancer". Dott.ssa Jessica Brandi, XXVII cycle PhD in Molecular, industrial and environmental Biotechnologies (Univ. of Verona, 5 May 2015).
3. "Discovery and quantification of proteins of biological relevance through differential proteomics and biosensing" Dott. Francesco Lonardoni, XXIV cycle PhD in Molecular, industrial and environmental Biotechnologies (Univ. of Verona, 30 April 2012).
4. "2D-PAGE coupled to mass spectrometry for proteomic analysis of human, microbial and plant samples" Dott. Alberto Milli, XXI cycle PhD in Molecular, industrial and environmental Biotechnologies (Univ. of Verona, 4 May 2009).

Supervisor of Bachelor and Master Degrees Thesis

Since AA 2006/07 to the present, CD was supervisor of 15, and co-advisor of 2, master's degree thesis (CdLM in Bioinformatics and Medical biotechnology, CdLM in Industrial and Molecular Biotechnology, CdLM in Agro-food Biotechnology). CD was also supervisor of 5 bachelor degree thesis (Degree Course in Biotechnology).

INSTITUTIONAL ROLES

(at University of Verona)

2018 - today

Member of the Academic Senate as Representative of Associate Professors of "Science and Engineering" macro-area

2007 - today

Member of the Teaching staff of Ph.D. in Biotechnology

Member of the Collegio didattico of Biotechnology

Member of the Department of Biotechnology Council

2013 - today

Tutor for CdLM in Molecular and Medical Biotechnology

2013 - 2017

Member of Joint didactic Commission - Professors and Students

2004 - 2017

Referent for Centro Piattaforme Tecnologiche di Ateneo for nanoHPLC-Chip/ion trap mass spectrometer for proteomics

2009 - 2012

Member of Junta for Department of Biotechnology as Representative of Researchers

2008 - 2010

Member of Didactic Commission (CdL of Biotechnologie, CdLM of Biotechnologie Agro Alimentari)

Verona, September 2019

Daniela Cecconi

