

CURRICULUM VITAE

PERSONAL INFORMATION

Family name, First name: VASCOTTO, Carlo

Date of birth: 13/08/1976

Nationality: Italian

Email: carlo.vascotto@uniud.it

EDUCATION

From: 01/11/2003 PhD in Biomedical and Biotechnological Sciences, Dept. of Medical and
To: 22/05/2007 Biological Sciences (DSMB), University of Udine, Italy. Thesis: “*Molecular mechanisms of adaptive cellular response to oxidative stress*”.

From: 10/09/1998 Master’s degree in Biological Sciences, Department of Biochemistry,
To: 21/12/2002 Biophysics, and Macromolecular Chemistry (BBCM), University of Trieste, Italy. Thesis: “*Role of transcriptional factor Egr-1 on bone regeneration*”.
Evaluation: 106/110.

CURRENT POSITIONS

From: 01/11/2022 Assistant Professor, Dept. of Experimental Hematology, institute of
To: present Hematology and Transfusion Medicine, Warsaw, Poland.

From: 01/06/2011 Assistant Professor of Molecular Biology, Dept. of Medicine, University of
To: present (part- Udine, Italy.
time)

PREVIOUS POSITIONS

From: 24/09/2008 Research Assistant, Dept. of Medical and Biological Sciences, University of
To: 31/05/2011 Udine, Italy.

From: 01/06/2007 Post-doctoral Fellow, Dept. of Medical and Biological Sciences, University of
To: 23/09/2008 Udine, Italy.

RESEARCH EXPERIENCE

From: Visiting Professor at the Center of New Technologies of the University of
01/09/2017 Warsaw, Warsaw, Poland with MSC fellowship. Host: Prof. Chacinska.

To: 31/08/2019 Research project: “*Mitochondrial translocation of the DNA repair protein APE1*”.

From: EMBO Short-term Fellowship, International Institute of Molecular and Cell
01/11/2015 Biology (IIMCB), Warsaw, Poland. Host: Prof. Chacinska.

To: 15/02/2016 Research project: “*Mapping the transport pathway of APE1 into the mitochondrial matrix*”.

From: Fulbright Research Scholar Fellowship, Indiana University, Dept. of
15/01/2010 Pediatrics, Indianapolis, IN, USA. Host: Prof. Kelley.

To: 15/07/2010 Research project: “*Regulation of AP endonuclease (APE1) in cancer cells*”.

From: Post-doctoral Fellowship, University of Udine, Dept. of Medical and
01/06/2006 Biological Sciences, Italy. Supervisor: Prof. Tell.
To: 23/09/2008 Research project: “*Proteomic approaches for the identification of APE1 interacting partners and their biological function*”.

From: Friuli Venezia Giulia Region “*Progetto D4*” Fellowship, University of Texas
15/06/2006 Medical Branch, Sealy Center for Molecular Medicine, Galveston, TX,
To: 15/12/2006 USA. Host: Prof. Mitra.
Research project: “*Identification of APE1 protein target genes*”.

From: 1/06/2004 Visiting student at the Medical Research Council of Edinburg, Human Genetic
To: 31/11/2004 Unit. Host: Prof. Van Heyningen.
Research project: “*RNA interference for gene silencing*”.

RESEARCH GRANTS

Approved

2022-2026 HE-MSCA-DN – Vascotto (Coordinator and PI), MITGEST - “*Quality control of the mitochondrial gene expression system in health and disease*”. (Total : ~2.7 MEuro; Vascotto Unit: ~700 KEuro)

2022-2025 NCN-OPUS 22 – Vascotto (PI), “*Inhibiting the Mitochondrial Intermembrane Space Assembly pathway as a new approach to prevent metabolic reprogramming of therapy-resistant leukemia*”. Submitted from the Institute of Hematology and Trasfusion Medicine, Warsaw, Poland. (~620 KEuro);

2021-2024 H2020-MSCA-ITN – Vascotto (Unit Leader and PI), OLIGOMED - “*Oligonucleotides for Medical Applications*”. (Total: ~4.3 MEuro; Vascotto Unit: 530 KEuro)

Submitted

POR FESR 2014-2020 – Vascotto (Unit leader), SPRINT - “*Sviluppo di Prodotti di Ingegneria Tissutale finalizzati alla rigenerazione di organi e tessuti*”. (Total: ~900 KEuro; Vascotto Unit: 20 KEuro)

Completed as PI

2017-2019 NCN-Polonez 3 – Vascotto (PI), “*Mitochondrial translocation of the DNA repair protein APE1*”. (~210 KEuro)

2016-2019 AIRC – Vascotto (PI), “*Targeting the mitochondrial form of APE1 protein to increase chemosensitivity in hepatocellular carcinoma*”. (202 KEuro)

Completed as Co-I

2019-2022 NCN-Opus 16 – Wocławek-Potocka (PI), Vascotto (Co-I), “*Mitochondrial and metabolic adjustments during bovine in vitro embryo development - examination of the molecular quality markers of the bovine oocytes*”. (~250 KEuro; Vascotto Unit: ~50 KEuro)

2016-2021 NIH-R01 – Storici (PI), Vascotto (Co-I), “*Ribose-seq profile and analysis of ribonucleotides in DNA of oxidatively-stressed and cancer cells*”. (Total: 1.5 M\$); Vascotto Unit: ~40 K\$)

RESEARCH ACTIVITIES

Currently, my laboratory is involved in two European projects: *Quality control of the mitochondrial gene expression system in health and disease* - MITGEST, and *Oligonucleotides for Medical Applications* - OLIGOMED. We are studying the molecular mechanisms responsible for the degradation processes of damaged mitochondrial mRNAs and the characterization of the mitochondrial-nucleus crosstalk in the regulation of mitochondrial function. In OLIGOMED two projects are underway: the first one is aimed at the characterization of the biological activities of therapeutics oligonucleotides. In the second one, we are applying advanced confocal microscopy analyses (STED) to evaluate the delivery of oligonucleotides, their localization, half-life and testing innovative delivery systems.

In collaboration with the Institute of Haematology and Transfusion Medicine of Warsaw the proposal “*Inhibiting the Mitochondrial Intermembrane Space Assembly (MIA) pathway as a new approach to prevent metabolic reprogramming of therapy-resistant leukemia stem-cells*” was recently financed by the Polish National Science Center (NCN). The project focuses on to study the role of the MIA pathway in acute myeloid leukemia.

INSTITUTIONAL ROLES

From: October 2021 To: present	Member of the Commission for Quality Education for the BS in Biotechnologies at the University of Udine.
From: April 2021 To: Present	Faculty member in the PhD program in Biomedical and Biotechnological Sciences at the Department of Medicine of University of Udine.
From: October 2021 To: present	Faculty member in the undergraduate program in Biotechnologies at the Department of Medicine of University of Udine.
From: January 2013 To: July 2022	Promoter and coordinator of an initiative to create an international scholarship in collaboration with the US-Italy Fulbright Commission to host a professor from the United States for a semester at the Department of Medicine of the University of Udine. The project was supported with 72KEuro through participation in competitive calls for internationalisation of BS and MS programs. So far, four Visiting Professors have been hosted.
From: March 2014 To: September 2021	Faculty member in the <i>Joint PhD Program in Molecular BiOlogy</i> (JuMBO) with the participation of Scuola Superiore di Studi Avanzati (SISSA), International Centre for Genetic Engineering and Biotechnology (ICGEB), University of Trieste and University of Udine.
From: October 2014 To: January 2016	Member of the Didactic Council of the MS in Medical Biotechnologies at the Department of Medicine of University of Udine.
From: February 2013 To: August 2017	In charge of the teaching laboratory of the BS and MS programs in Biotechnologies at the University of Udine.
From: June 2011 To: October 2015	In charge of the radioisotopes laboratory of the Department of Medical and Biological Sciences at the University of Udine.

ORAL PRESENTATIONS AT NATIONAL AND INTERNATIONAL CONFERENCES

8-9 June 2022	Innovatorium 2022, Poznan, Poland. Title: “ <i>Biomedical research in HE: from benchtop to bedside</i> ”.
18-20 April 2022	Cell and Experimental Biology Conferences, Boston (MA), USA. Title: “ <i>New</i> ”

Role of Apurinic/apyrimidinic Endonuclease 1 Protein in the Degradation of Dysfunctional Abasic mRNA in Mitochondria".

- 08-13 July 2018 Gordon Research Conference on Mitochondria and Chloroplasts, Lucca (Barga), Italy. Title: "*DNA repair protein APE1 degrades damaged abasic mRNA in human mitochondria*".
- 21 June 2013 American University of Rome – "Fulbright Meeting & Orientation", Roma, Italy. Title: "*Beyond the project*".
- 18 June 2013 Workshop Human Proteomic Project (HPP) – "Mitochondria: energy for life", Padova, Italy. Title: "*Role of APE1/Mia40 interaction in the maintenance of mitochondrial DNA integrity*".
- 26 October 2012 ERASMUS WEEK – "Regulation of gene expression", Trieste, Italy. Title: "*Regulation of mitochondrial protein functions*".
- 29 February-1 March 2012 EASL Basic School of Hepatology – "Hepatocyte Damage & Liver Metabolism", Trieste, Italy. Title: "*Redox-driven regulation of mitochondrial proteins function: insight and blind spots*".
- 15-19 May 2010 11th International Workshop on Radiation Damage to DNA, Atlanta, GA, USA. Title: "*Critical lysine residues within the N-terminal domain of APE1 regulates its biological functions*".
- 22-25 June 2009 4th Annual National Conference of the Italian Proteomic Association (ItPA), Milano, Italia. Title: "*An integrated approach of Proteomics and Genome-wide analysis studies reveals critical residues for APE1/Ref-1 functions*".

TEACHING AND MENTORING ACTIVITIES

Since the a.y. 2011/2012, I teach Molecular Biology to undergraduate students in Biotechnologies (65h/year), Advanced Proteomic Approaches to graduate students in Biotechnologies (50h/years), and thematic courses to students enrolled in the Joint PhD Program in Molecular Biology (JuMBO) (~10h/year). In total ~1000h of teaching.

I supervised the research activities and thesis preparation and discussion of 6 PhD students in Molecular Biology, 7 master students and 15 undergraduate students in Biotechnologies, and hosted in my laboratory 8 international summer students.

SCIENTIFIC PRODUCTION

Since 2004, I have published 41 research articles in international peer-reviewed journals: 7 as first author and 9 as corresponding author. The total impact factor is ~210, *h*-index 26, and 1740 citations (Scopus). Moreover, I contributed in the preparation of four book chapters. Currently, two articles are under revision.

Manuscripts

1. Bazzani V, Equisoain Redin M, McHale J, Perrone L, Vascotto C. Mitochondrial DNA *Repair in Neurodegenerative Diseases and Ageing*. Int J Mol Sci. 2022 Sep 27;23(19):11391. doi: 10.3390/ijms231911391.

2. Sbail O, Djelloul M, Auletta A, Ieraci A, **Vascotto C***, Perrone L. *RAGE-TXNIP axis drives inflammation in Alzheimer's by targeting A β to mitochondria in microglia*. *Cell Death Dis.* 2022 Apr 19;13(4):368. doi: 10.1038/s41419-022-04840-7. [* co-corresponding author]
3. Bazzani V, Pravisani R, Baccarani U, **Vascotto C**. *Hepatocellular Carcinoma: Diagnosis, Therapy and Molecular Investigations*. pp.60-65. *J Cancer Immunology.* 2021 vol. 3 (1). doi:10.33696/cancerimmunol.3.042.
4. Barchiesi A, Bazzani V, Elancheliyan P, Wasilewski M, Chacinska A, **Vascotto C**. *Mitochondrial oxidative stress induces IMS/matrix translocation of APE1 through TIM23/PAM complex*. *J Mol Biol.* 2020 Dec 4;432(24):166713. doi: 10.1016/j.jmb.2020.11.012.
5. Bazzani V, Barchiesi A, Radecka D, Pravisani R, Guadagno A, Di Loreto C, Baccarani U, **Vascotto C**. *Mitochondrial Apurinic/Apyrimidinic Endonuclease 1 enhances mtDNA repair contributing to cell proliferation and mitochondrial integrity in early stages of hepatocellular carcinoma*. *BMC-Cancer.* 2020 Oct 7;20(1):969. doi: 10.1186/s12885-020-07258-6.
6. Barchiesi A and **Vascotto C**. *Transcription, Processing, and Decay of Mitochondrial RNA in Health and Disease*. *Int J Mol Sci.* 2019 May 6;20(9). pii: E2221. doi: 10.3390/ijms20092221. Review.
7. Barchiesi A, Baccarani U, Billack B, Tell G, **Vascotto C**. [Letter to the Editor] *Isolation of mitochondria is necessary for precise quantification of mitochondrial DNA damage in human carcinoma samples*. *Biotechniques.* 2017 Jan 1;62(1):13-17. doi: 10.2144/000114491.
8. Baldan F, Mio C, Allegri L, Conzatti K, Toffoletto B, Puppini C, Radovic S, **Vascotto C**, Russo D, Di Loreto C, Damante G. *Identification of tumorigenesis-related mRNAs associated with RNA-binding protein HuR in thyroid cancer cells*. *Oncotarget.* 2016 Sep 27;7(39):63388-63407. doi: 10.18632/oncotarget.11255.
9. Di Maso V, Mediavilla MG, **Vascotto C**, Lupo F, Baccarani U, Avellini C, Tell G, Tiribelli C, Crocè LS. *Transcriptional Up-Regulation of APE1/Ref-1 in Hepatic Tumor: Role in Hepatocytes Resistance to Oxidative Stress and Apoptosis*. *PLoS One.* 2015 Dec 1;10(12):e0143289. doi: 10.1371/journal.pone.0143289.
10. Barchiesi A, Wasilewski M, Chacinska A, Tell G, **Vascotto C**. *Mitochondrial translocation of APE1 relies on the MIA pathway*. *Nucleic Acids Res.* 2015 Jun 23;43(11):5451-64. doi: 10.1093/nar/gkv433.
11. Bortolussi G, Codarin E, Antoniali G, **Vascotto C**, Vodret S, Arena S, Cesaratto L, Scaloni A, Tell G, Muro AF. *Impairment of enzymatic antioxidant defenses is associated with bilirubin-induced neuronal cell death in the cerebellum of Ugt1 KO mice*. *Cell Death Dis.* 2015 May 7;6:e1739. doi: 10.1038/cddis.2015.113.
12. Poletto M, Malfatti MC, Dorjsuren D, Scognamiglio PL, Marasco D, **Vascotto C**, Jadhav A, Maloney DJ, Wilson DM 3rd, Simeonov A, Tell G. *Inhibitors of the apurinic/apurimidinic endonuclease 1 (APE1)/nucleophosmin (NPM1) interaction that display anti-tumor properties*. *Mol Carcinog.* 2016 May;55(5):688-704. doi: 10.1002/mc.22313.
13. Avolio E, Gianfranceschi G, Cesselli D, Caragnano A, Athanasakis E, Katare R, Meloni M, Palma A, Barchiesi A, **Vascotto C**, Toffoletto B, Mazzega E, Finato N, Aresu G, Livi U, Emanuelli C, Scoles G, Beltrami CA, Madeddu P, Beltrami AP. *Ex vivo molecular rejuvenation improves the therapeutic activity of senescent human cardiac stem cells in a mouse model of myocardial infarction*. *Stem Cells.* 2014 Sep;32(9):2373-85. doi: 10.1002/stem.1728
14. Domenis R, Bergamin N, Gianfranceschi G, **Vascotto C**, Romanello M, Rigo S, Vagnarelli G, Faggiani M, Parodi P, Kelley MR, Beltrami CA, Cesselli D, Tell G, Beltrami AP. *The redox*

function of APE1 is involved in the differentiation process of stem cells toward a neuronal cell fate. PLoS One. 2014 Feb 19;9(2):e89232. doi: 10.1371/journal.pone.0089232.

15. Londero AP, Orsaria M, Tell G, Marzinotto S, Capodicasa V, Poletto M, **Vascotto C**, Sacco C, Mariuzzi L. *Expression and prognostic significance of APE1/Ref-1 and NPM1 proteins in high-grade ovarian serous cancer.* Am J Clin Pathol. 2014 Mar;141(3):404-14. doi: 10.1309/AJCPIDKDLSGE26CX.
16. Antoniali G, Lirussi L, D'Ambrosio C, Dal Piaz F, **Vascotto C**, Casarano E, Marasco D, Scaloni A, Fogolari F, Tell G. *SIRT1 gene expression upon genotoxic damage is regulated by APE1 through nCaRE-promoter elements.* Mol Biol Cell. 2014 Feb;25(4):532-47. doi: 10.1091/mbc.E13-05-0286.
17. Romanello M, Piatkowska E, Antoniali G, Cesaratto L, **Vascotto C**, Iozzo RV, Delneri D, Brancia FL. *Osteoblastic cell secretome: a novel role for progranulin during risedronate treatment.* Bone. 2014 Jan;58:81-91. doi:10.1016/j.bone.2013.10.003.
18. Tell G, Di Piazza M, Kamocka MM, **Vascotto C**. *Combining RNAi and in vivo confocal microscopy analysis of the photoconvertible fluorescent protein Dendra2 to study a DNA repair protein.* Biotechniques. 2013 Oct;55(4):198-203. doi:10.2144/000114088.
19. Cesaratto L, Codarin E, **Vascotto C**, Leonardi A, Kelley MR, Tiribelli C, Tell G. *Specific inhibition of the redox activity of ape1/ref-1 by e3330 blocks TNF- α -induced activation of IL-8 production in liver cancer cell lines.* PLoS One. 2013 Aug 15;8(8):e70909. doi: 10.1371/journal.pone.0070909.
20. **Vascotto C**, Lirussi L, Poletto M, Tiribelli M, Damiani D, Fabbro D, Damante G, Demple B, Colombo E, Tell G. *Functional regulation of the apurinic/apyrimidinic endonuclease 1 by nucleophosmin: impact on tumor biology.* Oncogene. 2013 Jul 8. doi: 10.1038/onc.2013.251.
21. Poletto M, **Vascotto C**, Scognamiglio PL, Lirussi L, Marasco D, Tell G. *Role of the unstructured N-terminal domain of the hAPE1 (human apurinic/apyrimidinic endonuclease 1) in the modulation of its interaction with nucleic acids and NPM1 (nucleophosmin).* Biochem J. 2013 Jun 15;452(3):545-57. doi: 10.1042/BJ20121277.
22. Marasco D, Ruggiero A, **Vascotto C**, Poletto M, Scognamiglio PL, Tell G, Vitagliano L. *Role of mutual interactions in the chemical and thermal stability of nucleophosmin NPM1 domains.* Biochem Biophys Res Commun. 2013 Jan 11;430(2):523-8. doi: 10.1016/j.bbrc.2012.12.002.
23. Tell G, **Vascotto C**, Tiribelli C. *Alterations in the redox state and liver damage: hints from the EASL Basic School of Hepatology.* J Hepatol. 2013 Feb;58(2):365-74. doi: 10.1016/j.jhep.2012.09.018.
24. Lirussi L, Antoniali G, **Vascotto C**, D'Ambrosio C, Poletto M, Romanello M, Marasco D, Leone M, Quadrifoglio F, Bhakat KK, Scaloni A, Tell G. *Nucleolar accumulation of APE1 depends on charged lysine residues that undergo acetylation upon genotoxic stress and modulate its BER activity in cells.* Mol Biol Cell. 2012 Oct;23(20):4079-96. doi: 10.1091/mbc.E12-04-0299.
25. Li M, **Vascotto C**, Xu S, Dai N, Qing Y, Zhong Z, Tell G, Wang D. *Human AP endonuclease/redox factor APE1/ref-1 modulates mitochondrial function after oxidative stress by regulating the transcriptional activity of NRF1.* Free Radic Biol Med. 2012 Jul 15;53(2):237-48. doi: 10.1016/j.freeradbiomed.2012.04.002.
26. **Vascotto C**, Bisetto E, Li M, Zeef LA, D'Ambrosio C, Domenis R, Comelli M, Delneri D, Scaloni A, Altieri F, Mavelli I, Quadrifoglio F, Kelley MR, Tell G. *Knock-in reconstitution studies reveal an unexpected role of Cys-65 in regulating APE1/Ref-1 subcellular trafficking and function.* Mol Biol Cell. 2011 Oct;22(20):3887-901. doi: 10.1091/mbc.E11-05-0391.

27. Fantini D, **Vascotto C**, Marasco D, D'Ambrosio C, Romanello M, Vitagliano L, Pedone C, Poletto M, Cesaratto L, Quadrifoglio F, Scaloni A, Radicella JP, Tell G. *Critical lysine residues within the overlooked N-terminal domain of human APE1 regulate its biological functions.* Nucleic Acids Res. 2010 Dec;38(22):8239-56. doi: 10.1093/nar/gkq691.
28. **Vascotto C**, Fantini D, Romanello M, Cesaratto L, Deganuto M, Leonardi A, Radicella JP, Kelley MR, D'Ambrosio C, Scaloni A, Quadrifoglio F, Tell G. *APE1/Ref-1 interacts with NPM1 within nucleoli and plays a role in the rRNA quality control process.* Mol Cell Biol. 2009 Apr;29(7):1834-54. doi: 10.1128/MCB.01337-08.
29. **Vascotto C**, Cesaratto L, Zeef LA, Deganuto M, D'Ambrosio C, Scaloni A, Romanello M, Damante G, Tagliatela G, Delneri D, Kelley MR, Mitra S, Quadrifoglio F, Tell G. *Genome-wide analysis and proteomic studies reveal APE1/Ref-1 multifunctional role in mammalian cells.* Proteomics. 2009 Feb;9(4):1058-74. doi: 10.1002/pmic.200800638.
30. Codutti L, van Ingen H, **Vascotto C**, Fogolari F, Corazza A, Tell G, Quadrifoglio F, Viglino P, Boelens R, Esposito G. *The solution structure of DNA-free Pax-8 paired box domain accounts for redox regulation of transcriptional activity in the pax protein family.* J Biol Chem. 2008 Nov 28;283(48):33321-8. doi: 10.1074/jbc.M805717200.
31. Iannetti A, Pacifico F, Acquaviva R, Lavorgna A, Crescenzi E, **Vascotto C**, Tell G, Salzano AM, Scaloni A, Vuttariello E, Chiappetta G, Formisano S, Leonardi A. *The neutrophil gelatinase-associated lipocalin (NGAL), a NF-kappaB-regulated gene, is a survival factor for thyroid neoplastic cells.* Proc Natl Acad Sci U S A. 2008 Sep 16;105(37):14058-63. doi: 10.1073/pnas.0710846105.
32. Fantini D, **Vascotto C***, Deganuto M, Bivi N, Gustincich S, Marcon G, Quadrifoglio F, Damante G, Bhakat KK, Mitra S, Tell G. *APE1/Ref-1 regulates PTEN expression mediated by Egr-1.* Free Radic Res. 2008 Jan;42(1):20-9. doi: 10.1080/10715760701765616. [*: co-first author author]
33. Avellini C, Baccarani U, Trevisan G, Cesaratto L, **Vascotto C**, D'Aurizio F, Pandolfi M, Adani GL, Tell G. *Redox proteomics and immunohistology to study molecular events during ischemia-reperfusion in human liver.* Transplant Proc. 2007 Jul-Aug;39(6):1755-60.
34. Cesaratto L, Calligaris SD, **Vascotto C**, Deganuto M, Bellarosa C, Quadrifoglio F, Ostrow JD, Tiribelli C, Tell G. *Bilirubin-induced cell toxicity involves PTEN activation through an APE1/Ref-1-dependent pathway.* J Mol Med (Berl). 2007 Oct;85(10):1099-112.
35. Pacifico F, Paolillo M, Chiappetta G, Crescenzi E, Arena S, Scaloni A, Monaco M, **Vascotto C**, Tell G, Formisano S, Leonardi A. *RbAp48 is a target of nuclear factor-kappaB activity in thyroid cancer.* J Clin Endocrinol Metab. 2007 Apr;92(4):1458-66.
36. **Vascotto C**, Salzano AM, D'Ambrosio C, Fruscalzo A, Marchesoni D, di Loreto C, Scaloni A, Tell G, Quadrifoglio F. *Oxidized transthyretin in amniotic fluid as an early marker of preeclampsia.* J Proteome Res. 2007 Jan;6(1):160-70.
37. Pines A, Bivi N, **Vascotto C**, Romanello M, D'Ambrosio C, Scaloni A, Damante G, Morisi R, Filetti S, Ferretti E, Quadrifoglio F, Tell G. *Nucleotide receptors stimulation by extracellular ATP controls Hsp90 expression through APE1/Ref-1 in thyroid cancer cells: a novel tumorigenic pathway.* J Cell Physiol. 2006 Oct;209(1):44-55.
38. **Vascotto C**, Cesaratto L, D'Ambrosio C, Scaloni A, Avellini C, Paron I, Baccarani U, Adani GL, Tiribelli C, Quadrifoglio F, Tell G. *Proteomic analysis of liver tissues subjected to early ischemia/reperfusion injury during human orthotopic liver transplantation.* Proteomics. 2006 Jun;6(11):3455-65.

39. Salzano AM, Paron I, Pines A, Bachi A, Talamo F, Bivi N, **Vascotto C**, Damante G, Quadrifoglio F, Scaloni A, Tell G. *Differential proteomic analysis of nuclear extracts from thyroid cell lines*. J Chromatogr B Analyt Technol Biomed Life Sci. 2006 Mar 20;833(1):41-50.
40. Risso A, Tell G, **Vascotto C**, Costessi A, Arena S, Scaloni A, Cosulich ME. *Activation of human T lymphocytes under conditions similar to those that occur during exposure to microgravity: a proteomics study*. Proteomics. 2005 May;5(7):1827-37.
41. Cesaratto L, **Vascotto C**, D'Ambrosio C, Scaloni A, Baccarani U, Paron I, Damante G, Calligaris S, Quadrifoglio F, Tiribelli C, Tell G. *Overoxidation of peroxiredoxins as an immediate and sensitive marker of oxidative stress in HepG2 cells and its application to the redox effects induced by ischemia/reperfusion in human liver*. Free Radic Res. 2005 Mar;39(3):255-68.
42. Cesaratto L, **Vascotto C**, Calligaris S, Tell G. The importance of redox state in liver damage. Ann Hepatol. 2004 Jul-Sep;3(3):86-92. Review.

Book chapters

1. **Vascotto C**, Poletto M, Tell G. *Understanding the basic for translating the base excision repair pathway from benchtop to bedside in cancer treatment*. In: *DNA Repair in Cancer Therapy: Molecular Targets and Clinical Applications*. Second Edition, 2016. p. 83-114, ISBN: 978-0-12-803582-5.
2. **Vascotto C***, Tiribelli C. *Oxidative stress, antioxidant defenses and the liver*. In: *Studies on Hepatic Disorders*. 2015. p. 41-64, ISBN: 9783319155388. [*: corresponding author]
3. Fishel M, **Vascotto C**, Kelley MR. *Novel Base Excision Repair Therapeutics: APE1 focus and a brief summary of other BER targets*. In: *DNA Repair and Cancer: From Bench to Clinic*. 2013. p. 233–287, ISBN: 1466577436.
4. **Vascotto C**, Fishel ML. *Blockade of Base Excision Repair: Inhibition of Small Lesions Results in Big Consequences to Cancer Cells*. In: *DNA Repair in Cancer Therapy: Molecular Targets and Clinical Applications*. 2011, p. 29-53, ISBN: 9780123849991.

October 19th 2022

