Detailed CV of Professor Gianluca Tell as on February 02, 2017

Gianluca Tell was born in Udine, Italy, on 06.03.1968 got his Biology degree cum laude in 1993 at the University of Trieste, Italy.

A. Personal Statement:

My prevailing interests is the study of molecular mechanisms of gene expression particularly in the field of redox signalling and cell oxidative stress. Now, I am focusing on some aspects linking gene expression and DNA repair and its relevance in molecular oncology and cancer. In particular, from 1998, I contributed to the understanding of the molecular mechanisms, involving the main mammalian Apurinic/Apyrimidinic Endonuclease APE1, in coordinating cellular responses to oxidative stress in different cell models. His background includes molecular and cellular biology as well as biochemistry techniques to characterize the relationship between structure and function of proteins involved in gene expression and DNA repair. He coordinated several research projects granted from Telethon, AIRC, PRIN, ASI and worked as a Referee for 20 different International Journals (Oncogene, Nucleic Acids Research, Proteomics, Cancer Research, Clinical Cancer Research, etc). The field of prevailing interest is the study of molecular mechanisms of gene expression particularly in the field of redox signalling and cell oxidative stress and, from 2010, the non-canonical roles of DNA repair enzymes of the BER pathway, particularly in association with RNA metabolism. I am currently head of the Laboratory of Molecular Biology and DNA repair of the Department of Medical Area at the University of Udine, Italy.

Prof. G. Tell authored more than 150 publications in international peer reviewed journals and more than 70 international congress communications concerning control of gene expression during response to oxidative stress. In 55% of these publications Prof. Tell gave a central contribution, acting as a first or last name. Total Impact Factor >500. The value of citation index (h-index) according to ISI Web of Knowledge is of 34 with a mean citation value of 22.10, the H-index according to Google Scholar is 39.

B. Positions and Honors:

- Staff fellow, April 1995-March 2000, Department of Biomedical Sciences and Technologies, School of Medicine, University of Udine, Italy;
- 1996, visiting scientist in the lab of Dr. David Segal, Experimental Immunology Branch, Division of Basic Sciences, NCI, NIH, Bethesda (MD) USA;
- March 2000-September 2003, Assistant Professor of Molecular Biology, Department of Biochemistry, Biophysics and Macromolecular Chemistry, School of Medicine, University of Trieste, Italy;
- September 2003-October 2005, Assistant Professor of Molecular Biology, Department of Biomedical Sciences and Technologies, School of Medicine, University of Udine, Italy;
- June-August 2006, Visiting Professor in the lab of Prof. Sankar Mitra. School of Medicine-Sealy Center For Molecular Science And Department Of Human Biological Chemistry And Genetics. University of Texas, Galveston, TX, USA;
- July 2009, Visiting Professor in the lab of Prof. Pablo Radicella. CEA, Institut de RadiobiologieCellulaire et Moléculaire, UMR217 CNRS, F-92265 Fontenay-aux-Roses, France;

- July-September 2011, Visiting Research Scholar in the lab of Prof. Bruce Demple. Department of Pharmacological Sciences, Stony Brook University, Stony Brook, NY, USA;
- From November 2012-present, he is Head of the School of Biotechnology at the University of Udine, Italy;
- From November 2005-present, he is Associate Professor of Molecular Biology, at the Department of Biomedical Sciences and Technologies and from January 2011 at the Department of Medical and Biological Sciences, School of Medicine, University of Udine, Udine, Italy.
- 2014, winner of the national habilitation competition as Full Professor in Biochemistry (BIO/10) and Molecular Biology (BIO/11)

Others:

- 1993-1994 Research Scientist (Postdoctoral fellow) supported by Oncological Research Center (C.R.O.) Aviano, PN, Italy
- 1994 (January)-1995 (May) Second lieutenant, Italian Army, anti-aircraft artillery, Sabaudia (Rome) and 5th Regiment Udine, Italy
- 1997–1998 Teaching assistant, Biochemical and Molecular Gene Expression Techniques, Department of Biomedical Sciences and Technologies, Udine University Medical School, Udine Italy
- 1997–1999 Teaching assistant, Immunology, Department of Biomedical Sciences and Technologies, Udine University Medical School, Udine, Italy
- 1998–1999 Deputy Associate Professor, General Pathology, Department of Biomedical Sciences and Technologies, Udine University Medical School, Udine, Italy

Professional memberships:

- 2000- American Association for Biochemistry and Molecular Biology (ASBMB)
- 2000 Italian Society for Biochemistry and Molecular Biology (SIB)
- 2003-2008 American Society for Bone and Mineral Research (ASBMR)
- 2004 Human Proteome Organization (HUPO)
- 2004 Italian Human Proteome Organization (IHUPO)
- 2011- Visiting Research Scholar at Stonybrook University, Stonybrook, NY-USA
- 2014 Scientific Board of the Italian Research Cancer Association (AIRC)

Honors and Awards:

- 2008-2012 Consultant, Ministry of Science (Georgia)
- 2008 Invited Speaker at Anticancer Research Congress in Kos, Greece;
- 2009 Invited Speaker at US/EU DNA repair meeting in Galveston, TX-USA.
- 2010 Invited Speaker at INBB meeting in Rome, Italy.
- 2011 UICC Yamagiwa-Yoshida Memorial International Cancer Study Grant funded by the Kyowa Hakko Kogyo Company Ltd., Tokyo and the Japan National Committee for UICC
- 2011 Consultant, Ministry of University and Research (Italy)

C. Contributions to Science:

Prof Tell has more than 150 scientific peer-reviewed publications. Peer reviewed Publications and citations parameters:

- First author publications: 25
- Last author publications: 49
- Total publications: 152
- Peer-reviewed publications at this link: ORCID ID: https://orcid.org/0000-0001-8845-6448. Sum of the Times Cited: 3712
- Sum of Times Cited without self-citations: 3232
- Citing Articles:2616
- Citing Articles without self-citations: 2505
- Average Citations per Item: 22.10
- **h-index (Scopus): 34**
- **h-index (Google Scholar): 39**

Most cited paper:

The intracellular localization of APE1/Ref-1: More than a passive phenomenon? Tell, G; Damante, G; Caldwell, D; et al. ANTIOXIDANTS & REDOX SIGNALING (2005), 7, 367-384, number of citations 240 with a mean of 21.82/year

Referee for the following granting agencies:

1. NSERC (Canada)
2. Wellcome Trust (UK)
3. Cancer Research (UK)
4. Georgia Ministery of Science
5. National Medical Research Council (NMRC), Singapore
6. MIUR, Italy

D. Research Support:

Ongoing Research Support:

- 2016-2021 Research Grant R01 NIH, National Institutes of Health agency: National Cancer Institute Special Emphasis Panel (Ribose-seq profile and analysis of ribonucleotides in DNA of oxidatively-stressed and cancer cells). PI: Prof. Francesca Storici, Georgia Technology Institute, Atlanta, GA, USA. Co-PI: Prof. Gianluca Tell Project. Total fundings to Dr. Tell: $388,190. The goal of this project is to map ribonucleotides embedded in DNA in normal and cancer cells and identify the mechanisms for their repair. Project location: Georgia Technology Institute, Atlanta, GA, USA and University of Udine, Italy
- 2017-2019 Crossborder cooperation program Interreg V Italia Austria Bando 2016 funded by the European Regional Development Fund (ERDF) and the National Funds, implemented by the Autonomous Region Friuli Venezia Giulia, in quality of Managing Authority (PreCanMed: Generation of a Precision Cancer Medicine platform). Total funding to Dr Tell: € 205.450
- 2015-2017 Research Grant R21 NIH, National Institutes of Health agency: National Cancer Institute Special Emphasis Panel (The Ape1-NPM1 Axis and Telomere Maintenance). PI: Prof. Bruce Demple, Stony Brook University, NY, USA. Co-PI: Prof. Gianluca Tell Project. Total

fundings: $429,642. The goal of this project is to unveil the role of the Ape1-NPM1 axis in telomere maintenance for development of new anticancer drugs. Project location: Stony Brook University, NY, USA and University of Udine, Italy

Completed Research Support:

- 2014-2016 Research grant AIRC #IG14038 (Base Excision Repair dysregulation and cancer: Ape1 as a therapeutic target). The goal of this proposal is to identify the Ape1 regulated genes in cancer cells through RIP and ChipSeq gene analysis through NGS strategies and to identify small compounds able to interfere with the Ape1 functional network to sensitize tumor cells to anticancer therapy. Project location: University of Udine, Italy
- 2012-2015 Crossborder cooperation program Italy- Slovenia 2007- 2013 funded by the European Regional Development Fund (ERDF) and the National Funds, implemented by the Autonomous Region Friuli Venezia Giulia, in quality of Managing Authority (Environmental pollutants and neurodegenerative diseases). 2010-12 Research grant AIRC #IG10269 – three years (Understanding the functional regulation of APE1 for development of new specific inhibitors)
- 2010-12 Telethon, Grant # GGP10051B (New diagnostic and therapeutic approaches for the Crigler−Najjar Syndrome Type I)
- 2010-12 Research grant PRIN2008 #2008CCPKRP (Molecular networks involving APE1 and role of post-translational modifications in fine-tuning the APE1 different functions for development of new drugs for cancer treatment)
- 2009-2010 ITALY/FRANCE 'Galileo' exchange grant from the Università Italo-Francese.
- 2008-11 Grant FIRB-National Proteomics Network RBRN07BMCT (Italian Human ProteomeNet)
- 2008-10 EU/USA Exchange Grant by Ministry from Foreign Affairs: Role of Ape1 in Neurotoxicity of Cancer Treatments
- 2006-08 Telethon, Grant #GGP06208 (DJ-1 in neurodegeneration)
- 2005-09 Private grants from Procter & Gamble and Abiogen
- 2005-07 AIRC, (New approaches for studying genetics, early molecular diagnosis and prognostic factors relevant for HCC)
- 2005-07 Telethon, Grant #GGP05062 (Genetic determinants of bilirubin encephalopathy)
- 2005-07 National coordinator grant PRIN2005 (Molecular mechanisms of cell response to oxidative stress)

D. Invited seminars:

- Udine University - Medical School, Department of Biomedical Sciences and Technologies, Udine – Italy; October 11, 1997;
- Udine University - Medical School, Department of Biomedical Sciences and Technologies, Udine – Italy; April 05, 1998;
- Naples University - Medical School, Department of Molecular and Cellular Pathology 'L. Califano', Naples - Italy; February 20, 1999;
- Florence University - Chemistry School, CERM and Department of Chemistry, Title: "Role of APE/Ref-1 in the transcriptional control of eukaryotic cells", Florence – Italy; 07 March, 2001.
- Trieste, AREA Science Park – EASL International Workshop 'The Molecular Basis of Bilirubin Encephalopathy and Neurotoxicity' – Title: "Redox regulation of cellular functions: new

perspectives for the antioxidant role of bilirubin", Trieste – Italy; 1-2 October, 2004

- Trieste, AREA Science Park – Summer School in Molecular Medicine – Title: "Proteomics in the new post-genomic era", Trieste – Italy; July 20, 2007
- Indiana University Melvin and Bren Simon Cancer Center; Title: "The many faces of APE1/Ref-1: molecular journey to unveil the secrets of this multifunctional protein", Indianapolis, IN (USA);November 14, 2007
- Invited Speaker at Anticancer Research Congress, Kos, Greece (2008).
- Invited Speaker at US/EU DNA repair meeting, Galveston, TX, USA (2009);
- Department of Molecular Embriology, DKFZ, Heidelberg, D, November 23rd (2010), Title: 'New insights into the unusual DNA repair protein APE1 and implications for cancer"
- Naples University - Medical School, Department of Molecular and Cellular Pathology 'L. Califano', Naples - Italy; April 07, 2011; Title: 'New insights into the unusual DNA repair protein APE1 and implications for cancer"
- College of Medicine, Graduate Center for Toxicology, University of Kentucky, Lexington, KY 40536-0305, USA – September 17, 2012; Title: "New insights into the unusual DNA repair protein Ape1 and relevance for Base Excision Repair and cancer"
- Italian Istitute of Technologies, Genova, Italy – June 01, 2017; Title: "Non-canonical roles of DNA repair proteins in RNA metabolism"

F. Invited chairmen and Meeting/ courses organization:

- September 8th-11th 2003. European Science Foundation Programme on integrated approaches for functional genomics. *Biocrystallography course: from gene to drug*, Trieste, Italy. Chairman and course organizer in collaboration with Prof. Silvano Geremia
- February 29th-March 1st 2012. EASL Basic School of Hepatology, course 7:*Hepatocyte damage and Liver metabolism*, Trieste, Italy. Chairman and course organizer in collaboration with Prof. Claudio Tiribelli.
- September 24th-28th 2017, 6th EU-US International Meeting on Endogenous DNA Damages, Udine, Italy. Chairman and Congress organizer in collaboration with Prof. Robert Sobol, Alexander Buerckle, Eugenia Dogliotti.

G. Referee for the following journals:

Antioxid. Redox. Signal, Biochemical Journal, Biochimica and Biophysica Acta, Gene , Biotechnology Progress, Biochimie, Cancer Research, Cell Biology International, Cell Death and Differentiation, European Journal of Pharmacology, Gastroenterology, Gene, Hepatology International Journal of Biochemistry & Cell Biology, nternational Journal of Cancer, J. Proteome Res., Molecular and Cellular Endocrinology, Molecular Biosystems, Mutation Research, Nucleic Acids Research, Oncogene, Oncology, Plos ONE, Proteomics

H. Full papers in peer reviewed international journals:

1. **Tell, G.**, Leonardi, A., Damante, G., Di Lauro, R. and Formisano, S. "*Circular Dichroism as Preliminary Approach on the Study of Secondary Structure of Homeodomains*". (1993) Minerva Biotec. 5, 220-223.

2. Damante, G., **Tell, G.**, Formisano, S., Fabbro, D., Pellizzari, L. and Di Lauro, R. "*Effect of salt concentration on TTF-1 HD binding to specific and non-specific DNA sequences*". (1993) Biochem. Biophys. Res. Commun. 197, 632-638.

3. Damante, G., **Tell, G.**, Leonardi, A., Fogolari, F., Bortolotti, N., Di Lauro, R. and Formisano, S."*Analysis of the conformation and stability of rat TTF-1 homeodomain by circular dichroism*". (1994) FEBS Lett. 354, 293-296.

4. Fabbro, D., **Tell, G.**, Pellizzari, L., Leonardi, A., Pucillo, C., Lonigro, R. and Damante , G. "*Definition of the DNA-binding specificity of TTF-1 homeodomain by chromatographic selection of binding sequences*". (1995) Biochem. Biophys. Res. Commun. 213, 781-788.

5. Bearz, A., Tolazzi, G., Leonardi, A., Pucillo, C., **Tell, G.**, Colombatti, A., and Formisano, S. "*Expression, purification and functional characterisation of a Kunitz-type module from chicken type VI collagen*". (1995) Biochem. Biophys. Res. Commun. 215, 1050-1055.

6. Damante, G., Pellizzari, L., Esposito, G., Fogolari, F., Viglino, P., Fabbro, D., **Tell, G.**, Formisano, S. and Di Lauro, R. "*A molecular code dictatessequence-specific DNA recognition by homeodomains*". (1996) EMBO J. 15, 4992-5000.

7. **Tell, G.**, Fabbro, D., Leonardi, A., Pellizzari, L., Pucillo, C., Lonigro, R., Formisano, S. and Damante, G. "*In the TTF-1 homeodomain the contribution of several amino acids to DNA recognition depends on the bound sequence*". (1996) Nucl. Acid. Res. 24, 3283-3288.

8. Esposito, G., Fogolari, F., Damante, G., Formisano, S., **Tell, G.**, Leonardi, A., Di Lauro, R. and Viglino, P. "*Analysis of the solution structure of the homeodomain of rat thyroid transcription factor 1 by ^{1}H-NMR spectroscopy and restrained molecular mechanics*". (1996) Eur. J. Biochem. 241, 101-113.

9. Leonardi, A., Altomonte, M., Maio, M., **Tell, G.**, Bearz, A., Formisano, S. and Pucillo, C. "*Biphasic control of NF-kB activation induced by the triggering of HLA-DR antigens expressed on B cells*". (1997) Citokine. 9, 295-299.

10. Moro, M., Ceriello, A., Mercuri, F., **Tell, G.,**Pellizzari, L. and Damante, G. "*Glyceraldehyde 3-phosphate-induced DNA or protein modifications severely inhibit the protein/DNA interaction*". (1997) Horm. Metab. Res. 29, 347-350.

11. Esposito, G., Fogolari, F., Damante, G., Formisano, S., **Tell, G.**, Leonardi, A., Di Lauro, R. and Viglino, P. "*Hydrogen-deuterium exchangestudies of the rat thyroidtranscriptionfactor 1 homeodomain*". (1997) J. Biomol. NMR 9, 397-407.

12. Pellizzari, L., **Tell, G.**, Fabbro, D., Pucillo, C. and Damante, G. "*Functional interference between contacting amino acids of homeodomains*". (1997) FEBS Lett. 407, 320-324.

13. Arlotta, P., Rustighi, A., Mantovani, F., Manfioletti, G., Giancotti, V., **Tell, G.** and Damante, G."*High Mobility Group I Proteins interfere with the homeodomains binding toDNA*". (1997) J. Biol. Chem. 272, 29904-29910.

14. **Tell, G.**, Pellizzari, L. and Damante, G. "*Transcription factors and cancer. The example of Pax genes*". (1997) Adv. Clin. Pathol. 1, 243-255.

15. **Tell, G.** , Perrone, L., Fabbro, D., Pellizzari, L., Pucillo, C., De Felice, M., Acquaviva, R., Formisano, S. and Damante, G. "*Structural and Functional properties of the N Transcriptional Activation Domain of Thyroid Transcription Factor 1: Similarities with the Acidic Activation Domains*". (1998) Biochem. J. 329, 395-403.

16. Bearz A, **Tell G**., Colombatti A, Formisano S, Pucillo C. "*Fibronectin binding promotes a PKC-dependent modulation of NF-kappa B in human T cells*." (1998) BiochemBiophys Res Commun 243, 732-7.

17. **Tell, G.**, Scaloni, A., Pellizzari, L., Formisano, S., Pucillo, C. and Damante, G. "*Redox potential controls the structure and DNA binding activity of the Paired domain*". (1998) J. Biol. Chem. 273, 25062-25072.

18. Fabbro, D., Pellizzari, L., Mercuri, F., **Tell, G.** and Damante, G. " *Pax-8 protein levels regulate thyroglobulin gene expression*". (1998) J. Mol. Endocrinol. 21, 347-354.

19. **Tell, G.**, Pellizzari, L., Cimarosti, D., Pucillo, C. and Damante, G. "*Ref-1 controls Pax-8 DNA-binding activity*". (1998) Biochem. Biophys. Res. Commun. 252, 178-183.

20. Scaloni, A., Monti, M., Acquaviva, R., **Tell, G.**, Damante, G., Formisano, S. and Pucci, P. "*Topology of the thyroid transcription factor 1 homeodomain-DNA complex*". (1999) Biochemistry 38, 64-72.

21. **Tell, G.,** Pellizzari, L. and Damante, G. "*Co-operation between the PAI and RED subdomains of Pax-8 in the interaction with thyroglobulin promoter*". (1999) Biochem J. 337, 253-262.

22. Perrone, L., **Tell, G.** and Di Lauro, R. "*Calreticulin enhances the transcriptional activity of thyroid transcription factor-1 by binding to its homeodomain*". (1999) J. Biol. Chem. 274, 4640-4645.

23. Russo, D., **Tell, G.,** Marin, L., Bertone, A., Zaja, F., Tiribelli, M., Santucci, M.A., Pucillo, C. "*All-trans retinoic acid (ATRA) potentiates the in vitro inhibitory effects of INF-a in parental (32D) and p210-bcr/abl transfected (LG7) murine myeloid cell lines*". (1999) Hematologica 84: 955-957

24. **Tell, G.**, Acquaviva, R., Formisano, S., Fogolari, F., Pucillo, C. and Damante, G. "*Comparative stability analysis of the Thyroid Transcription factor 1 and Antennapedia homeodomains: evidence for residue 54 in controlling the structural stability of the recognition helix*". (1999) Intl. J. Biochem and Cell Biol. 31, 1339-53.

25. **Tell, G.**, Pellizzari, L., Macchia, P.E., Pucillo, C., Di Lauro, R. and Damante, G. "*Structural defects of a Pax-8 mutant that give rise to congenital hypothyroidism*". (1999) Biochem. J. 341, 89-93

26. Bearz, A., **Tell, G.**, Formisano, S.,Merluzzi S., Colombatti, A., and Pucillo, C. "*Adhesion to fibronectin promotes the activation of the p125FAK/Zap-70 complex in human T cells*". (1999) Immunol. 98, 564-568.

27. Civilini, M., de Bertoldi, M., and **Tell, G.** "*Molecular characterization of Pseudomonas aeruginosa 2NR degrading naphthalene*". (1999) Lett. Appl. Microbiol. 29, 181-186.

28. Morassutti, C., Scaggiante, B., Dapas, B., Xodo, L., **Tell, G.** and Quadrifoglio, F. "*Effect of phosphorothioate modifications on the ability of GTnoligodeoxynucleotide to specifically recognise single-stranded DNA-binding proteins and to affect human cancer cellular growth*." (1999) Biochimie 81, 1115-1122.

29. **Tell, G.,**Zecca, A., Cimarosti, D., Colombatti, A., Kelley, M., Damante, G. and Pucillo, C. "*An 'environment to nucleus' signaling system operates in B lymphocytes: redox status of Ref-1 modulates BSAP/Pax-5 activation*". (2000) Nucleic Acids Research. 28, 1099-1105.

30. **Tell, G.,**Pellizzari, L., Pucillo, C., Puglisi, F., Cesselli, D., Kelley, M.R., Di Loreto, C. and Damante, G. "*TSH controls Ref-1 nuclear translocation in thyroid cells*". (2000) J. Mol. Endocrinol. 24, 383-390.

31. Pellizzari, L., D'Elia, A., Rustighi A., Manfioletti, G., **Tell, G.** and Damante. G. "*Expression and function of the homeodomain-containing protein Hex in thyroid cells*" (2000) Nucleic Acids Research 28, 2503-2511.

32. Damante, G., **Tell, G.** and Di Lauro, R. "*A unique combination of transcription factors controls*

differentiation of thyroid cells." (2001) Prog. Nucl. Acids. Res. and Mol. Biol. 66, 307-356.

33. Civilini, M., Pucillo, C., Colombatti, A., Damante, G., de Bertoldi M. and **Tell, G.** "*Monoclonal antibody detection of Naphthalene Dioxygenase from Pseudomonas aeruginosa 2NR*". (2000) Lett. Appl. Microbiol. 31, 313-318.

34. Marsich, E., Bandiera, A., **Tell, G.**, Scaloni, A. and Manzini, G. "*A chicken hnRNP of the A/B family recognizes the single-stranded(CCCTAA)n telomeric repeated motif*". (2001) Eur. J. Biochem. 268, 139-148.

35. Russo, D., Arturi, F., Bulotta, S., Pellizzari, L., Filetti, S., Manzini, G., Damante, G. and **Tell, G.** "*ApeI/Ref-1 expression and cellularlocalization in human thyroidcarcinomacelllines*". (2001) J. Endocrinol. Invest. 24, RC10-RC12.

36. D'Elia, A.V., **Tell, G.**, Paron, I., Pellizzari, L., Lonigro, R., Damante, G.*Missense mutations of human homeoboxes: A review*. (2001) Hum. Mutat. 18, 361-374.

37. PUGLISI F, APRILE G, MINISINI AM, BARBONE F, CATALDI P, TELL G, KELLEY MR, DAMANTE G, BELTRAMI CA, DI LORETO C. (2001). Prognostic significance of Ape1/ref-1 subcellular localization in non-small cell lung carcinomas. ANTICANCER RESEARCH, vol. 21, p. 4041-4049

38. Puglisi, F., Barbone, F., **Tell, G.**, Aprile, G., Pertoldi, B., Raiti, C., Kelley, M.R., Damante, G., Sombrero, A., Feltrami, C.A. and Di Loreto, C. *Prognostic role of APE/Ref-1 subcellular expression in stage I-III breast carcinomas.* (2002) Oncol Rep. 9, 11-17.

39. **Tell, G.,** Pines, A., Paron, I., D'Elia, A., Bisca, A., Kelley, M.R., Manzini, G. and Damante, G. *Ref-1 regulates the activity of thyroid transcription factor 1 by controlling the redox state of the N transcriptional activation domain.*(2002) J. Biol. Chem. 277, 14564-14574.

40. **Tell, G.,** Pines, A., Pandolfi, M., D'Elia, A., Donnini, D., Lonigro, R., Manzini, G., Russo, D., Di Loreto, C. and Damante, G.*APE/Ref-1 is controlled by both redox and cAMP-dependent mechanisms in rat thyroid cells.* (2002) Horm. Metab. Res. 34, 303-310

41. Frossi, B., **Tell, G.**, Spessotto, P., Colombatti, A., Vitale, G. and Pucillo, C. *H_2O_2inducestranslocation of APE/Ref-1 tomitochondria in theRaji B-cellline.*(2002) J. Cell. Physiol. 193, 180-618.

42. Russo, D., Celano, M., Bulotta, S., Bruno, R., Arturi, F., Giannasio, P., Filetti, S., Damante, G. and **Tell, G**. *APE/Ref-1 is increased in nuclear fractions of human thyroid hyperfunctioning nodules.*(2002) Mol. Cell. Endocrinol. 194, 71.

43. D'Elia, A.V., **Tell, G.**, Russo, D., Arturi, F., Puglisi, F., Manfioletti, G., Gattei, V., Mack, D.L., Cataldi, P., Filetti, S., Di Loreto, C. and Damante, G. *Expression and localization of the homeodomain-containing protein HEX in human thyroid tumors.*(2002) J. Clin. Endocrinol. Metab. 87, 1376-1383.

44. Bandiera, A., **Tell, G.**, Marsich, E., Scaloni, A., Pocsfalvi, G., AkintundeAkindahunsi, A., Cesaratto, L. and Manzini, G. *Cytosine-block telomeric type DNA-binding activity of hnRNP proteins from human cell lines*. (2003). Arch. Biochem. Biophys. 409, 305-314.

45. Paron, I., Scaloni, A., Pines, A., Bachi, A., Liu, F.T., Puppin, C., Pandolci, M., Ledda, L., Di Loreto, C., Damante, G. and **Tell, G**. *Nuclear localization of Galectin-3 in transformed thyroid cells: a role in transcriptional regulation.* (2003) Biochem. Biophys. Res. Commun. 302, 545-553.

46. Paron, I., D'Elia, A., D'Ambrosio, C., Scaloni, A., D'Aurizio, F., Prescott, A., Damante, G. and **Tell, G**. *A proteomic approach to identify early molecular targets of oxidative stress in human epithelial lens cells*. (2004) Biochem J. 378, 929-937.

47. Puppin, C., Arturi, F., Ferretti, E., Russo, D., Sacco, R., **Tell, G.**, Damante, G. and Filetti, S. *Transcriptional regulation of human NIS gene: a role for Redox factor-1*. (2004) Endocrinology. 145, 1290-1293.

48. Marsich, E., Vetere, A., Di Piazza, M., **Tell, G.** and Paoletti, S. *The PAX6 gene is activated by the basic helix-loop-helix transcription factor NeuroD/BETA2*. (2003) Biochem J. 376, 707-715.

49. Dapas, B., **Tell, G.**, Scaloni, A., Pines, A., Ferrara, L., Quadrifoglio, F. and Scaggiante, B. *Identification of different isoforms of eEF1A in the nuclear fraction of human T-lymphoblastic cancer cell line specifically binding to aptameric cytotoxic GT oligomers*. (2003) Eur J Biochem. 270, 3251-3262.

50. Pines, A., Romanello, M., Cesaratto, L., Damante, G., Moro, L., D'andrea, P. and **Tell, G**. *Extracellular ATP stimulates the early growth response protein 1 (Egr-1) via a protein kinase C-dependent pathway in the human osteoblastic HOBIT cell line.* (2003) Biochem J. 373, 815-824.

51. D'Ambrosio, C., Talamo, F., Vitale, R.M., Amodeo, P., **Tell, G.**, Ferrara, L. and Scaloni, A. *Probing the dimeric structure of porcine aminoacylase 1 by mass spectrometric and modeling procedures*. (2003) Biochemistry 42, 4430-4443.

52. Dalle-Donne, I., Scaloni, A., Giustarini, D., Cavarra, E., **Tell, G.,**Lungarella, G., Colombo, R., Rossi, R. and Milzani, A. *Proteinsasbiomarkers of oxidative/nirosative stress in diseases. The contribution of redox proteomics.* (2005) Mass Spectrometry Reviews. **24**, 55-99

53. Bisca, A., D'Ambrosio, C., Scaloni, A., Puglisi, F., Aprile, G., Piga, A., Zuiani, C., Bazzocchi, M., Di Loreto, C., Paron, I., **Tell, G.** and Damante, G. *Proteomic evaluation of core biopsy specimens from breast lesions* (2004) Cancer Letter 294, 79-86.

54. Puppin, C., Presta, I., D'Elia, A.V., **Tell, G.,**Arturi, F., Russo, D., Filetti, S. and Damante, G. (2004) *Functional interaction among thyroid-specific transcription factors: Pax8 regulates the activity of Hex promoter*. Mol. Cell. Endocrinol. **214**, 117-125.

55. Cesaratto, L., Vascotto, C., Calligaris, S. and **Tell, G.** (2004) *The importance of redox state in liver damage*. Ann. Hepatol. **3**, 86-92

56. Pines, A., Bivi, N., Romanello, M., Damante, G., Kelley, M.R., Adamson, E.D., D'Andrea, P., Quadrifoglio, F., Moro, L. and **Tell, G.** (2005) *Cross regulation between Egr-1 and APE/Ref-1 during early response to oxidative stress in the human osteoblastic HOBIT cell line: evidence for an autoregulatory loop.* Free Rad. Res. **39,** 269-281.

57. Puglisi, F., Minisini, A.M., Barbone, F., Intersimone, D., Aprile, G., Puppin, C., Damante, G., Paron, I., **Tell, G.**, Piga, A., Di Loreto, C. (2004) *Galectin-3 expression in non-small celllung carcinoma.*Cancer Lett. **212,** 233-9.

58. **Tell, G.**, Pines, A., Arturi, F., Cesaratto, L., Adamson, E.D., Puppin, C., Presta, I., Russo, D., Filetti, S., Damante, G. (2004) *Control of PTEN gene expression in normal and neoplastic thyroid cells*. Endocrinology **145**, 4660-4666.

59. Costessi A., Pines A., D'Andrea P., DamanteG., Cesaratto L., Quadrifoglio F., Moro L. and **Tell G.***Extracellular nucleotides activate runx2 in the osteoblast-like HOBIT cell line: a possible molecular link between mechanical stress and osteoblasts' response.* (2005) Bone **36**, 418-432

60. CesarattoL., Vascotto C., D'Ambrosio C., Scaloni A., Baccarani U., Paron I., Damante G., Calligaris S., Quadrifoglio F., Tiribelli C. and **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.* (2005) Free Rad. Res. **39**, 255-268

61. Risso A., **Tell G.**, Vascotto C., Costessi A., Simona A., Scaloni A. and Cosulich M.E. *Activation of human T lymphocytes under conditions similar to those that occur during exposure to*

microgravity: a proteomics study. (2005) Proteomics **5**, 1827-37

62. Russo D, Bisca A, Celano M, Talamo F, Arturi F, Scipioni A, Presta I, Bulotta S, Ferretti E, Filetti S, Scaloni A, Damante G, **Tell G**. *Proteomic analysis of human thyroid cell lines reveals reduced nuclear localization of Mn-SOD in poorly differentiated thyroid cancer cells.*(2005) J Endocrinol Invest. **28**, 137-144.

63. Romanello M, Codognotto A, Bicego M, Pines A, **Tell G**., D'Andrea P. *Autocrine/paracrine stimulation of purinergic receptors in osteoblasts:Contribution of vesicular ATP release.* (2005) BiochemBiophys Res Commun. **331**, 1429-1438.

64. Paron I, D'Ambrosio C, Scaloni A, Berlingieri MT, Pallante PL, Fusco A, Bivi N, **Tell G**, Damante G. *A differential proteomic approach to identify proteins associated with thyroid cell transformation.*(2005) J. Mol. Endocrinol. **34**, 199-207

65. Di Loreto C, **Tell G**, Pestrin M, Pandolfi M, Damante G, Puglisi F. *PTEN and Egr-1 expression in thyroid proliferative lesions.*(2005) Cancer Lett. **224**, 105-109.

66. Ferretti E, Arturi F, Mattei T, Scipioni A, **Tell G**, Tosi E, Presta I, Morisi R, Lacroix L, Gulino A, Russo D, Damante G, Filetti S. *Expression, regulation, and function of PAX8 in the human placenta and placental cancer cell lines.*Endocrinology (2005) **146**, 4009-4015.

67. Puppin C, D'Aurizio F, D'Elia AV, Cesaratto L, **Tell G**, Russo D, Filetti S, Ferretti E, Tosi E, Mattei T, Pianta A, Pellizzari L, Damante G. *Effects of histone acetylation on NIS promoter and expression of thyroid-specific transcription factors.*Endocrinology(2005) **146**, 3967-3974

68. Pines A, Perrone L, Bivi N, Romanello M, Damante G, Gulisano M, Kelley MR,Quadrifoglio F, **Tell G**. Activation of APE1/Ref-1 is dependent on reactive oxygen species generated after purinergic receptor stimulation by ATP. Nucleic Acids Res. (2005) **33**, 4379-4394.

69. Puppin C, Pellizzari L, Fabbro D, Fogolari F, **Tell G**, Tessa A, Santarelli FM, Damante G. *Functional analysis of a novel RUNX2 missense mutation found in a family with cleidocranial dysplasia.*J HumGenet. (2005) **50**, 679-683.

70. 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) **833**, 41-50. (I.F. : 2.935)

71. D'Elia AV, Puppin C, Pellizzari L, Pianta A, Bregant E, Lonigro R, **Tell G**, Fogolari F, van Heyningen V, Damante G. *Molecular analysis of a human PAX6 homeobox mutant*. Eur J HumGenet. (2006) **14**, 744-751. (I.F. : 4.003)

72. Geremia S, Demitri N, Wuerges J, Benedetti F, Berti F, **Tell G**, Randaccio L. *A Potent HIV Protease Inhibitor Identified in an Epimeric Mixture by High-Resolution Protein Crystallography*.Chem Med Chem (2006) **1**, 186-188. (I.F. : 2.825)

73. 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) **6**, 3455-3465. (I.F. : 5.479)

74. Romanello M, Bivi N, Pines A, Deganuto M, Quadrifoglio F, Moro L, **Tell G**. *Bisphosphonates activate nucleotide receptors signalling and induce the expression of Hsp90 in osteoblast-like cell lines.*Bone (2006) **39**, 739-753. (I.F. : 3.966)

75. 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 receptorsstimulation by extracellular ATP controls Hsp90 expressionthrough APE1/Ref-1 inthyroidcancercells: A noveltumorigenicpathway.* J Cell Physiol. (2006) **209**: 44-55. (I.F. : 3.643)

76. **Tell G**. *Early molecular events during response to oxidative stress in human cells by differential Proteomics*. In *Redox Proteomics; from protein modifications to cellular dysfunction and diseases;*Dalle Donne, I., Scaloni, A., Butterfield, D. A., Eds.; Wiley (2006); pp. 369-398

77. Vascotto C, Salzano AM, D'Ambrosio C, Fruscalzo A, Marchesoni D, Loreto CD O, Scaloni A, **Tell G**, Quadrifoglio F. *Oxidized Transthyretin in Amniotic Fluid as an Early Marker of Preeclampsia*. J Proteome Res. (2007) **6**:160-170. (I.F. : 5.675)

78. 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 Nf-□B Activity In Thyroid Cancer.* J ClinEndocrinolMetab. (2007) **92**:1458-1466. (I.F. : 5.493)

79. Campagnolo M, Pesaresi A, Zelezetsky I, Geremia S, Randaccio L, Bisca A, **Tell G**. *Structural Studies on Pax-8 Prd Domain/DNA Complex.*J BiomolStructDyn. (2007) **24**:429-442. (I.F.: 1.413)

80. Deganuto M, Pittis MG, Pines A, Dominissini S, Kelley MR, Garcia R, Quadrifoglio F, Bembi B, **Tell G**. *Altered intracellular redox status in Gaucher disease fibroblasts and impairment of adaptive response against oxidative stress.*J Cell Physiol. (2007) **212**:223-235. (I.F. : 3.643)

81. Di Maso V, Avellini C, Croce LS, Rosso N, Quadrifoglio F, Cesaratto L,Codarin E, Bedogni G, Beltrami CA, **Tell G**, Tiribelli C. *SubcellularLocalization of APE1/Ref-1 in Human Hepatocellular Carcinoma: PossiblePrognosticSignificance.*MolMed. (2007) **13**:89-96. (I.F. : 2.078)

82. 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. (2007) **85**:1099-112. (I.F. : 4.820)

85. Avellini C, Baccarani U, Trevisan G, Cesaratto L, Vascotto C, D'Aurizio F,Pandolfi M, Adani GL, **Tell G**. *Redox proteomics and immunohistology to studymolecularevents during ischemia-reperfusion in human liver.*Transplant Proc. (2007) Jul-Aug;39(6):1755-60. (I.F. : 1.027)

86. D'Andrea P., Romanello M., Bicego M., Steinberg T.H. and **Tell G**. *H_2O_2 modulates purinergic-dependent calcium signalling in osteoblast-like cells.* Cell calcium (2008) 43(5):457-68. (I.F. : 4.338)

87. Grassi F., **Tell G.**, Ryan M.R., GaoY., Terauchi M., YangX., Romanello M., Jones D.P., WeitzmannM.N., Pacifici R. *Oxidative stress causes bone loss in estrogen deficient mice through enhanced bone marrow dendritic cell activation.* Proc. Natl. Acad. Sci. (U.S.A.) *(*2007)104(38):15087-92. (I.F. : 9.598)

88. Fantini D, Vascotto C, Deganuto M, Bivi N, Gustincich S, Marcon G, Quadrifoglio F, Damante G, Bhakat KK, MitraS, **Tell G**. *APE1/Ref-1 regulates PTEN expression mediated by Egr-1.* Free Rad. Res. 2008 Jan;42(1):20-9. (I.F. : 2.925)

89. Marra F, Gastaldelli A, SvegliatiBaroni G, **Tell G**, Tiribelli C. *Molecular basis and mechanisms of progression of non-alcoholic steatohepatitis*. Trends Mol Med. (2008) Feb;14(2):72-81. (I.F. : 7.244)

90. 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-□B-regulated gene, is a survival factor for thyroid neoplastic cells.*Proc. Natl. Acad. Sci. (U.S.A.)(2008), 105(37):14058-63. (I.F. : 9.598)

91. **Tell G.**, Quadrifoglio F., Tiribelli C., Kelley MR. *The many functions of APE1/Ref-1: not only a DNA-repair enzyme.*Antioxid. Redox. Signal. (2009), 11(3): 601-620. doi:10.1089/ars.2008.2194. (I.F. : 5.484)

92. Bugianesi E, Bedogni G, Svegliati-Baroni G, Crocè LS, Gastaldelli A, Marchesini G, Marra F, Perseghin G, **Tell G**. *Clinical update on non-alcoholic fatty liver disease and steatohepatitis.* Ann Hepatol. 2008 Apr 1;7(2):157-160.

93. Vella V., Puppin C., Damante G., Vigneri R., Sanfilippo M., **Tell G.**, Frasca F. *DeltaNP73□□inhibits PTEN expression in thyroid cancer cells*. Int. J. Cancer. (2009), 124:2539-48 **(I.F.: 4.555)**

94.Scaloni A.**,** Codarin E., Di MasoV., ArenaS., Renzone G., Tiribelli C., Quadrifoglio F., **Tell G**. *Modern strategies to identify new molecular targets for the treatment of liver diseases: the promising role of Proteomics and Redox Proteomics investigations*. Proteomics – Clin. Appl. (2009), *3*, 242–262 **(I.F.: 5.479)**

95. Zucchelli S., Vilotti S., Calligaris R., Scotto LavinaZ., Biagioli M., Foti R., De Maso L., Gorza M., Speretta E., Casseler C., **Tell G.**, Del Sal G., Gustincich S. *Aggresome-forming TTRAP mediates pro-apoptoticproperties of Parkinson's Disease-associated DJ-1 missensemutations*. Cell Death Diff. (2008), In press, **(I.F.: 8.254)**

96. Codutti L., van Ingen H., Vascotto C., Fogolari F., Corazza A., **Tell G.**, Quadrifoglio F., Viglino P., Boelens R., Esposito G.*Structural Basis Of Human Pax8 Redox Regulation From The Unbound Paired Box Domain*. J. Biol. Chem. (2008), In press,**(I.F.: 5.581)**

97.Vascotto C., Cesaratto L., Zeef L.A.H., Deganuto M., D'Ambrosio C., Scaloni A., Romanello M., Damante G., Taglialatela G., Delneri D., Kelley M.R., Mitra S., Quadrifoglio F., **Tell G.***Genome-wide analysis and proteomic studies reveal APE1/Ref-1 multifunctional role in mammalian cells.* Proteomics (2009), 9:1058-1074, **(I.F.: 5.479)**

98.Bivi N, Bereszczak JZ, Romanello M, Zeef LA, Delneri D, Quadrifoglio F, Moro L, Brancia FL, Tell G. Transcriptome and proteome analysis of osteocytes treated with nitrogen-containing bisphosphonates. J Proteome Res. 2009 Mar;8(3):1131-42. **(I.F. : 5.675)**

99.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 rRNAquality control process.*Mol. Cell Biol. (2009), 29(7):1834-54. **(IF: 6.42)**

100. Bregant E, Renzone G, Lonigro R, Passon N, Di Loreto C, Pandolfi M, Scaloni A,**Tell G**, Damante G. *Down-regulation of SM22/transgelin gene expression during H9c2 cells differentiation*. Mol Cell Biochem. 2009 Feb 18.

101. Codarin E, Renzone G, Poz A, Avellini C, Baccarani U, Lupo F, di Maso V, Crocè SL, Tiribelli C, Arena S, Quadrifoglio F, Scaloni A, **Tell G.**Differentialproteomicanalysis of subfractioned human hepatocellular carcinoma tissues. J. Proteome Res. 2009 May;8(5):2273-84. **(I.F. : 5.675)**

102. **Tell G.**, Gustincich S. *Redox state, oxidative stress and molecular mechanisms of protective and toxic effects of bilirubin on cells*. Curr. Pharm. Design (2009) 15(25):2908-14 **(I.F. : 4.868)**

103.Damante G., Scaloni A., **Tell G.***Thyroid carcinoma: novel insights from proteomic studies*. Expert Rev. Proteom. (2009) 6(4):363-76. **(I.F. : 3.650)**

104. Pianta A, Fabbro D, Damiani D, Tiribelli M, Fanin R, Franzoni A, Romanello M, **Tell G**, Di Loreto C, Damante G. *Twonovel NPM1 mutations in a therapy-responder AML patient.*HematolOncol. 2009 Jul 10. [Epub ahead of print] PubMed PMID: 19593743.

105. Pianta A, Fabbro D, Damiani D, Tiribelli M, Fanin R, Franzoni A, Romanello M, **Tell G**, Damante G. *Unexpected phenotype of a typical NPM1 mutant.* Br J Haematol. 2009 Sep 8. [Epub ahead of print] PubMed PMID: 19737150.

106. Bivi N, Romanello M, Harrison R, Clarke I, Hoyle DC, Moro L, Ortolani F, Bonetti A, Quadrifoglio F, **Tell G**, Delneri D. *Identification of secondary targets of N-containing bisphosphonates in mammalian cells via parallel competition analysis of the barcoded yeast deletion collection*. Genome Biol. 2009 Sep 10;10(9):R93. **(I.F. : 6.15)**

107. Marcon G, **Tell G**, Perrone L, Garbelli R, Quadrifoglio F, Tagliavini F, Giaccone G. *APE1/Ref-1 in Alzheimer's disease: An immunohistochemical study.*Neurosci Lett. 2009 Sep 23. [Epub ahead of print] PubMed PMID: 19782121

108. **Tell G,** Wilson DM 3rd, Lee CH. *Intrusion of a DNA repair protein in the RNome world: is this the beginning of a new era?*Mol Cell Biol. 2010 Jan;30(2):366-71.

*109.*Deganuto M, Cesaratto L, Bellarosa C, Calligaris R, Vilotti S, Renzone G, Foti R, Scaloni A, Gustincich S, Quadrifoglio F, Tiribelli C, **Tell G**. *A proteomic approach to the bilirubin-induced toxicity in neuronal cells reveals a protective function of DJ-1 protein.* Proteomics. 2010 Apr;10(8):1645-57.

110.Scaloni A, **Tell G**. *Mass spectrometry approaches for the redox characterization of protein cysteine residues the case of the transcription factor Pax-8.* Methods Enzymol. 2010;473:227-50.

111.Pianta A, Puppin C, Franzoni A, Fabbro D, Di Loreto C, Bulotta S, Deganuto M, Paron I, **Tell G**, Puxeddu E, Filetti S, Russo D, Damante G. *Nucleophosmin is overexpressed in thyroid tumors.*BiochemBiophys Res Commun. 2010 May 31. [Epub ahead of print] PubMed PMID: 20515654.

112.**Tell G**, Wilson DM 3rd. *Targeting DNA repair proteins for cancer treatment*. Cell Mol Life Sci. 2010 Aug 13. [Epub ahead of print] PubMed PMID: 20706767.

113.**Tell G**, Fantini D, Quadrifoglio F. *Understanding different functions of mammalian AP endonuclease (APE1) as a promising tool for cancer treatment.* Cell Mol Life Sci. 2010 Aug 13. [Epub ahead of print] PubMed PMID: 20706766.

114.Santarosa M, Del Col L, Viel A, Bivi N, D'Ambrosio C, Scaloni A, **Tell G**, Maestro R. *BRCA1 modulates the expression of hnRNPA2B1 and KHSRP*. Cell Cycle. 2010 Dec 3;9(23):4666-73.

115.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 38(22):8239-56.

116.Bivi N, Picotti P, Müller LN, Romanello M, Moro L, Quadrifoglio F, **Tell G**. *Shotgun proteomics analysis reveals new unsuspected molecular effectors of nitrogen-containing bisphosphonates in osteocytes*. J Proteomics. 2011 Jun 10;74(7):1113-22.

117.Pianta A, Puppin C, Passon N, Franzoni A, Romanello M, **Tell G**, Di Loreto C, Bulotta S, Russo D, Damante G. *Nucleophosmindelocalization in thyroidtumourcells.*EndocrPathol. 2011 Mar;22(1):18-23. PubMed PMID: 21258971.

118.VascottoC., Bisetto E., LiM., Zeef LAH, D'Ambrosio C, Domenis R, Comelli M, Delneri D, ScaloniA, AltieriF, Mavelli I, Quadrifoglio F, KelleyMR, **Tell G**.*Knock-in reconstitution studies reveal an unexpected role of Cys65 in regulating APE1/Ref-1 subcellular trafficking and function*. MolBiol of The Cell 2011 Oct;22(20):3887-901.

119.Passon N, Gerometta A, Puppin C, Lavarone E, Puglisi F, **Tell G**, Di Loreto C, Damante G. *Expression of Dicer and Drosha in triple-negative breast cancer.* J ClinPathol. 2012 Apr;65(4):320-6.

120.Li M, Vascotto C, Xu S, Dai N, Qing Y, Zhong Z, **Tell** G, Wang D. *Human AP endonuclease/redox factor APE1/Ref-1modulates mitochondrial function after oxidative stress by*

regulating the transcriptional activity of NRF1. Free RadicBiol Med. 2012 May 10. [Epub ahead of print] PubMed PMID: 22580151

121. Poletto M, Di Loreto C, Marasco D, Poletto E, Puglisi F, Damante G, **Tell G** (in stampa). *ACETYLATION ON CRITICAL LYSINE RESIDUES OF APURINIC/APYRIMIDINIC ENDONUCLEASE 1 (APE1) IN TRIPLE NEGATIVE BREAST CANCERS*. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ISSN: 0006-291X

122. Lirussi L, Antoniali G, Vascotto C, D'Ambrosio C, Poletto M, Romanello M, Marasco D, Leone M, Quadrifoglio F, Bhakat K, 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*. MolBiol Cell. 2012Aug 23. [Epub ahead of print] PubMed PMID: 22918947.

123. **Tell G**, Vascotto C, Tiribelli C. *Alterations in the redox state and liver damage: Hints from the EASL Basic School of Hepatology*. J Hepatol. 2012 Sep 27. pii: S0168-8278(12)00749-0. doi: 10.1016/j.jhep.2012.09.018.

124. Antoniali G, Lirussi L, Poletto M, **Tell G**. *Emerging Roles of the Nucleolus in Regulating the DNA Damage response: the non-canonical DNA repair enzyme APE1/Ref-1 as a paradigmatical example.* Antioxid Redox Signal. 2013 Jul 23. [Epub ahead of print] PubMed PMID: 23879289.

125. 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. 2014 May 29;33(22):2876-87. doi: 10.1038/onc.2013.251. Epub 2013 Jul 8. PubMed PMID: 23831574.

126. 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.PubMed PMID: 23544830.

127. 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. Epub 2012 Dec 8. PubMed PMID: 23232117.

128. 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;8(8):e70909. doi: 10.1371/journal.pone.0070909. PubMed PMID: 23967134; PubMed Central PMCID: PMC3744539.

129. 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. Epub 2013 Dec 19. PubMed PMID: 24356447; PubMed Central PMCID: PMC3923644.

130. Mantha AK, Sarkar B, **Tell G.***A short review on the implications of base excision repair pathway for neurons: relevance to neurodegenerative diseases*. Mitochondrion. 2014 May;16:38-49. doi: 10.1016/j.mito.2013.10.007. Epub 2013 Nov 9. PubMed PMID: 24220222.

131. **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. PubMed PMID: 24107251.

132. 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. PubMed PMID: 24515769.

133. Scognamiglio PL, Di Natale C, Leone M, Poletto M, Vitagliano L, **Tell G**, *Marasco D. G-quadruplex DNA recognition by nucleophosmin: new insights from protein dissection*. Biochim Biophys Acta. 2014 Jun;1840(6):2050-9. doi: 10.1016/j.bbagen.2014.02.017. Epub 2014 Feb 24. PubMed PMID: 24576674.

134. 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. eCollection 2014. PubMed PMID:24586617; PubMed Central PMCID: PMC3929656.

135. Poletto M, Lirussi L, Wilson DM 3rd, **Tell G**. *Nucleophosmin modulates stability, activity, and nucleolar accumulation of base excision repair proteins*. Mol Biol Cell. 2014 May;25(10):1641-52. doi: 10.1091/mbc.E13-12-0717. Epub 2014 Mar 19. PubMed PMID: 24648491; PubMed Central PMCID: PMC4019495.

136: Grasso S, **Tell G**. *Base excision repair in Archaea: Back to the future in DNA repair*. DNA Repair (Amst). 2014 Sep;21C:148-157. doi: 10.1016/j.dnarep.2014.05.006. Epub 2014 Jul 9. Review. PubMed PMID: 25012975.

137: Thakur S, Dhiman M, **Tell G**, Mantha AK. *A review on protein-protein interaction network of APE1/Ref-1 and its associated biological functions*. Cell Biochem Funct. 2015 Mar 19. doi: 10.1002/cbf.3100. [Epub ahead of print] PubMed PMID:25790058.

138: **Tell G**, Demple B. *Base excision DNA repair and cancer*. Oncotarget. 2015 Jan 20;6(2):584-5. PubMed PMID: 25655644; PubMed Central PMCID:PMC4359237.

139: Bravard A, Auvré F, Fantini D, Bernardino-Sgherri J, Sissoëff L, Daynac M, Xu Z, Etienne O, Dehen C, Comoy E, Boussin FD, **Tell G**, Deslys JP, Radicella JP. *The prion protein is critical for DNA repair and cell survival after genotoxic stress.* Nucleic Acids Res. 2015 Jan;43(2):904-16. doi: 10.1093/nar/gku1342. Epub 2014 Dec 24. PubMed PMID: 25539913; PubMed Central PMCID: PMC4333392.

140: 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/apyrimidinic endonuclease 1 (APE1)/nucleophosmin (NPM1) interaction that display anti-tumor properties.* Mol Carcinog. 2015 Apr 11. doi: 10.1002/mc.22313. [Epub ahead of print] PubMed PMID: 25865359.

141: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. PubMed PMID: 25950469.

142: 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. Epub 2015 May 8. PubMed PMID: 25956655.

143: Antoniali G, Marcuzzi F, Casarano E, **Tell G**. *Cadmium treatment suppresses DNA polymerase δ catalytic subunit gene expression by acting on the p53 and Sp1 regulatory axis.* DNA Repair (Amst). 2015 Nov;35:90-105. doi: 10.1016/j.dnarep.2015.08.007. Epub 2015 Oct 19. PubMed PMID: 26519823.

144: 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. eCollection 2015. PubMed PMID: 26624999; PubMed Central PMCID: PMC4666459.

145: Lirussi L, Antoniali G, D'Ambrosio C, Scaloni A, Nilsen H, **Tell G**. *APE1 polymorphic variants cause persistent genomic stress and affect cancer cell proliferation.* Oncotarget. 2016 Mar 30. doi: 10.18632/oncotarget.8477. [Epub ahead of print] PubMed PMID: 27050370.

146: Londero AP, Orsaria M, Marzinotto S, Grassi T, Fruscalzo A, Calcagno A, Bertozzi S, Nardini N, Stella E, Lellé RJ, Driul L, **Tell G**, Mariuzzi L. *Placental aging and oxidation damage in a tissue micro-array model: an immunohistochemistry study.* Histochem Cell Biol. 2016 Apr 22. [Epub ahead of print] PubMed PMID: 27106773.

147. Scognamiglio PL, Di Natale C, Leone M, Cascella R, Cecchi C, Lirussi L, Antoniali G, Riccardi D, Morelli G, **Tell G**, Chiti F, Marasco D. *Destabilisation, aggregation, toxicity and cytosolic mislocalisation of nucleophosmin regions associated with acute myeloid leukemia.* Oncotarget. 2016 Aug 1. doi: 10.18632/oncotarget.10991. [Epub ahead of print] PubMed PMID: 27494862.

148. Marcuzzi F, Zucchelli S, Bertuzzi M, Santoro C, **Tell G**, Carninci P, Gustincich S. *Isoforms of the Erythropoietin Receptor in dopaminergic neurons of the Substantia Nigra.* J Neurochem. 2016 Aug 4. doi: 10.1111/jnc.13757. [Epub ahead of print] PubMed PMID: 27488413.

149. 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. PubMed PMID: 28118811.

150. Zhang S, He L, Dai N, Guan W, Shan J, Yang X, Zhong Z, Qing Y, Jin F, Chen C, Yang Y, Wang H, Baugh L, **Tell G**, Wilson DM 3rd, Li M, Wang D. *Serum APE1 as a predictive marker for platinum-based chemotherapy of non-small cell lung cancer patients.* Oncotarget. 2016 Nov 22;7(47):77482-77494. doi: 10.18632/oncotarget.13030. PubMed PMID: 27813497.

151. Sandomenico A, Focà A, Sanguigno L, Caporale A, Focà G, Pignalosa A, Corvino G, Caragnano A, Beltrami AP, Antoniali G, **Tell G**, Leonardi A, Ruvo M. *Monoclonal antibodies against pools of mono- and polyacetylated peptides selectively recognize acetylated lysines within the context of the original antigen.* MAbs. 2016 Nov/Dec;8(8):1575-1589. PubMed PMID: 27560983.

152 Scognamiglio PL, Di Natale C, Leone M, Cascella R, Cecchi C, Lirussi L, Antoniali G, Riccardi D, Morelli G, **Tell G**, Chiti F, Marasco D. *Destabilisation, aggregation, toxicity and cytosolic mislocalisation of nucleophosmin regions associated with acute myeloid leukemia.* Oncotarget. 2016 Sep 13;7(37):59129-59143. doi: 10.18632/oncotarget.10991. PubMed PMID: 27494862.

I. Book Chapters:

- Tell G., *Early molecularevents during response to oxidative stress in human cells by differential proteo*mics in 'Redox Proteomics' Editors I. Dalle Donne, A. Scaloni, A. Butterfield, WILEY 2006
- VascottoC., Poletto M. and Tell G., *Understanding the basics for translating the Base Excision Repair patwhay from benchtop to bedside in cancer therapy* in ,DNA repair in cancertherapy' 2nd Ed., Edited by M.R. Kelley and M. Fishel, Academic Press, 2016
- Poletto M., Lirussi L., Antoniali G. and Tell G. *The Abasic Endonuclease APE1: Much More Than a DNA Repair Enzyme* in "The Base Excision Repair Pathway Molecular Mechanisms and Role in Disease Development and Therapeutic Design"Edited by David M Wilson III,

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L. Teaching and services to students

Teaching

Medical School of the University of Trieste

1. Molecular Biology, Degree in Medical Biotechnologies, Academical Years 2000/2001, 2001/2002, undergraduated students.
2. Molecular Biology 2, Degree in Medical Biotechnologies, Academical Years 2001/2002, 2002/2003, 2003/2004, undergraduated students.
3. Molecular Biology, Degree in Medical Dentistry, AcademicalYears 2001/2002, 2002/2003, undergraduated students.
4. Recombinant technologies, Degree in Medical Biotechnologies, Academical Years 2001/2002, 2002/2003, undergraduated students.
5. Functional Genomics and Proteomics, Degree in Medical Biotechnologies, Academical Years 2001/2002, 2002/2003, 2003/2004, 2004/2005, undergraduated students.
6. Techniques in Molecular Biology, Degree in Medical Biotechnologies, Academical Years 2001/2002, 2002/2003, 2003/2004, undergraduated students.
7. Molecular Genetics 2, Master School in Medical Genetics, Academical Years 2001/2002, 2002/2003, graduated students

Medical School of the University of Udine, Italy

1. Biochemical and Molecular Gene Expression Techniques, Degree in Medical Biotechnologies, Academical Year 1997/1998, undergraduated students.
2. General Pathology Degree in Medicine, Academical Year 1998/1999, undergraduated students
3. Techniques in Molecular Biology, Degree in Medical Biotechnologies, Academical Years 2001/2002, 2002/2003, 2003/2004, 2004/2005, 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2009/2010 undergraduated students.
4. Molecular Methodologies in Proteomics, Degree in Medical Biotechnologies, Academical Years 2005/2006, 2006/2007, 2007/2008, 2008/2009, 2009/2010, 2010/2011; 2016/17undergraduated students.
5. DNA repair mechanisms in mammalian cells, Degree in Medical Biotechnologies, Academical Years 2007/2008, 2008/2009, 2009/2010 undergraduated students.
6. Molecular Biology, Degree in Biotechnologies, Academical Years: 2011/2012, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17undergraduated student.
7. Molecular Biology, Degree in Medicine, Academical Years: 2011/2012, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17undergraduated students.
8. Molecular Biology, Degree in Sports Medicine, Academical Year 2011/2012, 2012/13, 2013/14undergraduated students.

<u>Graduated Students</u> (years 1998-2016): 60

7 in Biology, University of Trieste

1 in Chemistry, University of Trieste

15 in Medical Biotechnologies, University of Trieste

34 in Biotechnologies, University of Udine
2 in Biomedical Laboratory, University of Udine
1 In Medicine, University of Udine

Post-graduated students (years 2005-2016): 16
2 in Biochemistry, University of Trieste
12 in Biomedical Technologies, University of Udine

PhD students (years 2005-2016): 20 in Biomedical Sciences and Biotechnologies at the Universities of Udine and Trieste