

## Curriculum vitae of Olga Zeni

### Personal data

Name & Surname Olga Zeni  
Place & Date of birth Pozzuoli (Naples) - Italy, January 30, 1964  
Office address National Research Council (CNR) – Institute for Electromagnetic Sensing of the Environment (IREA) - Via Diocleziano, 328 80124 Naples - Italy  
Phone, Fax, E-mail +39 081 7620657, +39 081 5705734, zenio@irea.cnr.it  
Home page [http://www.irea.cnr.it/index.php/it/profilo-personale/userprofile/zeni\\_o](http://www.irea.cnr.it/index.php/it/profilo-personale/userprofile/zeni_o)

### Work experience

2001-present Senior Research Scientist at CNR – Institute for Electromagnetic Sensing of the Environment (IREA)- Naples - Italy

### Management activity

2001-2004 Scientific responsible for the activity “Biological effects of combined exposure to electromagnetic fields and environmental pollutants” at CNR-IREA  
2010 Member of the Programme Committee of the 35<sup>th</sup> International Conference on Infrared, Millimeter and TH waves, Rome, Italy  
2012- Member of the WG 1: Basic Mechanisms of Electroporation and Modeling of the COST TD 1104 “European network for development of electroporation-based technologies and treatments”  
2012-2015 External expert of the Working Group on Electromagnetic Fields for the draft of the “Opinion on the potential health effects of exposure to electromagnetic fields”, European Commission, *SCENIHR*  
2012- present Contributing in the preparation of the World Health Organization Environmental Health Criteria of Radiofrequency Electromagnetic Fields  
2014-2017 Member of the WG 1: Cancer EMF interactions and applications of the *COST Action BM1309* European network for innovative uses of EMFs in biomedical applications (EMF-MED)  
2014 Scientific Committee of the III National Congress "Interazioni tra Campi Elettromagnetici e Biosistemi ", Naples, Italy  
2015-2018 Member of the IEEE International Committee on Electromagnetic Safety  
2015 Organization of Workshop on “Immune response modulation ” in the framework of the COST Action BM1309 European network for innovative uses of EMFs in biomedical applications (EMF-MED), Roma, Italy  
2016-2019 Participation in COST ACTION CA15132  
2016 - present Member of the Scientific Council of the Institute for Electromagnetic Sensing of the Environment  
2017- present Elected member of the Scientific Council of the European Bioelectromagnetic Association (EBEA)  
2017-present Member of the Scientific Committee of the “Italian Society of Environmental Medicine”  
2017 Member of the Programme Committee of the 8th International THz- Bio Workshop, Frascati (RM), October 4-6 2017  
2019 Chair of the Focus/Special Sessions SC1: Short and Ultrashort Pulsed Electric fields for biomedical and industrial applications. Photonics and electromagnetics Research Symposium (PIERS), June 17-20, 2019

- 2020 - present Co-chair of the joint conference of European Bioelectromagnetic Association and Bioelectromagnetic Society (BioEm 2021) that will be held in Ghent, Belgium from September 26 to October 1, 2021
- 2021 Co-chair of the 9<sup>th</sup> International THz-Bio Workshop held online from April 19 – 23, 2021

## Education

- July 1990 Degree in Biological Sciences, University of Naples - Italy  
 June 1996 PhD degree in Zootechnical Science, University of Bologna - Italy

## Academic service

- 1997 - present Co-supervisor of several graduation thesis in Electronic Engineering and Biomedical Engineering, University Federico II, Naples, University of Urbino.
- 2002 – present Supervisor of qualifying periods for graduated and under-graduated students in Biological Science, Environmental Science, Electronic Engineering and Biomedical Engineering, University Federico II, Naples
- 2014 Lecturer for the Erice International School of Bioelectromagnetism “Alessandro Chiabrera”
- 2014 Lecturer of the Master Course on “Electromagnetic Fields: risk assessment and protection”
- 2016 Lecturer of the Basic Course for Voluntary Environmental Guard - MODULE: Environmental Protection - Pollution, Energy, Water and Hydrogeological Instability
- 2020 External referee for a PhD Thesis entitled “Electromagnetic Field Induced Permeability Response of Cells and Membranes” - Faculty of Science, Engineering & Technology (Australia)
- 2020 Referee of a research proposal - Uni- impresa 2019, University of Padova

## Editorial services

- 2011 Technical Program Committee - 9<sup>th</sup> EBFA Conference, Rome, Italy
- 2012- present Member of the Editorial Board of the Scientific World Journal, Biophysics
- 2013- present Member of the Editorial Board of the Conference Paper in Sciences, Biophysics
- 2017- present Member of the Editorial Board of the Scientific Pages of Toxicology
- 2015 Technical Program Committee – BIOEM 2015 Congress, Asilomar, California, USA
- 2016 Technical Program Committee – BIOEM 2016 Congress, Ghent, Belgium
- 2017 Technical Program Committee – BIOEM 2017 Congress, Hangzhou, China
- 2017 Member of the “Programme Committee” of the 8<sup>th</sup> International THz –Bio Workshop 2017, Frascati, 4-6 October
- 2017 Guest Editor of the special issue:” Effects of Combined EMF Exposures and Co-exposures” of the Journal “Frontiers in Public Health” - Radiation and Health
- 2017 Guest Editor of the special issue: "THz Radiation Applied to Biophysical, Biological and Biomedical Sciences" of the Journal of Infrared, Millimeter and Terahertz Waves
- 2018- present Associate Editor of the Journal “Frontiers in Public Health- Radiation and Health”
- 2018 Technical Program Committee – BIOEM 2018 Congress, Portoroz, Slovenia

2019	Technical Program Committee – BIOEM 2019 Congress, Montpellier, France
2019	Guest Editor of the special issue “Electric, Magnetic and Electromagnetic fields in Biology and Medicine” of the International Journal of Environmental Research and Public Health
2020	Guest Editor of the Special Issue "Advanced Electromagnetic Biosensors for Medical, Environmental and Industrial Applications" of the journal Sensors
2021	Scientific program committee of the 4 <sup>o</sup> World Congress on Electroporation, Copenhagen, September 19, 23, 2021

## **Funding**

2000-2003	Participation to the CEMFEC project (FPV - QLK4-CT-1999-01129) “Combined effects of electromagnetic fields with environmental carcinogens”
2001-2004	Participation to the THz-BRIDGE project (F PV - QLK4-CT-2000-00129) “THz radiation in Biological Research”
2001-2004	Participation to the MIUR project “Protection of human being and environment from electromagnetic emissions”
2001-2004	Participation to a project funded by the CRADA (supervision of FDA) “Micronucleus induction in human lymphocytes following exposures to Radiofrequency Radiation”
2002-2006	Participation to the project funded by Campania Region “Center of Competence on ICT - Wireless Technology Health Risks”
2002-2006	Participation to the project funded by the Consorzio Elettra 2000 “Evaluation of genotoxic effects in mammalian cell cultures exposed to 900 MHz, GSM signal, and co-exposed to environmental mutagens”
2004-2007	Responsible for the project funded by Telecom Italia Lab “Biological effects of electromagnetic fields in use for mobile communication systems in human cells”
2005-2007	Participation to the project funded by APAT, “Evaluation of biological processes related to genotoxic and not genotoxic carcinogenesis in mammalian cell cultures exposed to electromagnetic fields”
2008-2009	Responsible for the project funded by Telecom Italia Lab “Evaluation of oxidative stress in normal and cancer cell lines, after exposures to electromagnetic fields in use for mobile phones”
2008-2010	Participation to the project funded by MIUR (PRIN) “Effects of electromagnetic fields on neural-like cells”
2010-2011	Participation to the project, funded by INFN “Adaptive response induced in cell cultures by radiofrequency fields”
2012-2015	Participation to the project funded by the INAIL, “Evaluation of the occupational risk from exposure to electromagnetic fields in use for MRI”
2012-2015	Participation to the project: Se@ME - Sustainable e-maritime @ssistance for Maritime, Employees, Passengers and Yachtsmen, funded by Campania Region
2013-2015	Participation to the Campania Region, POR Biotechnologies, “Targets, probes and signals in therapy and diagnostics”
2013-2015	Participation to Italy - Ministry of Foreign Affairs, Bilateral projects Italy-Poland, “Study of the biological effects of low doses I-131 and comparison with individuals occupationally exposed in nuclear medicine (RTG-MNR-I-131)
2014-2015	Participation to the project funded by Campania Region, “Realization and characterization of an innovative ultra short pulsed electric fields exposure system for analysis of biological samples by means of confocal microscopy”
2016-2018	Participation to the project funded by the INAIL, “Evaluation of the occupational exposure to electromagnetic fields and biomonitoring of workers in magnetic resonance

2016- present	Responsible of the activities of the OR3 of the Project funded by EU-Campania Region: “Rete Intelligente dei Parchi Archeologici (PON03PE_00164) Parco Archeologico Urbano Napoli”
2017- present	Participation to the project funded by ANSES: Réponse adaptative aux champs radiofréquences: l’autophagie Estelle la clé? Dossier 2017/2 RF/012 ADAPT
2017- 2018	Participation to the project funded by the INAIL “SICUREZZA IN MARE”: an awareness and training campaign for workers in the maritime sector on the risk associated to occupational exposure to electromagnetic fields and biomechanical overload.
2018- 2020	Responsible at IREA for the project funded by INAIL "Augmented Reality Communication for the promotion of workers' safety from the risk of electromagnetic fields in a healthcare environment."
2018- present	Participation to the project CIRO - Campania Imaging Infrastructure for Research in Oncology funded by Campania Region
2018-2019	Participation to the project funded by Regione Campania: Good water” - POR FESR Campania 2014-2020
2019-2021	Participation to the project funded by the Italian Workers' Compensation Authority (INAIL), “Scientific Evidences on Radiofrequency Electromagnetic Fields carcinogenicity”
2020-2023	Participation to the project funded by the Italian Ministry of University and Scientific Research (PRIN), “Multilevel methodologies to investigate interactions between radiofrequencies and biological systems (MIRABILIS)”, funded by MIUR

## Reviewing activity

### *Journals peer reviewing*

2002-present Referee for: Bioelectromagnetics, Environmental and Molecular Mutagenesis, International Journal of Immunopathology and Pharmacology, J. Experimental Biology, J. of Membrane Biology, IEEE Trans Biomed Eng, Int. J. Radiat Biology, Mutagenesis, Mutation Research, PLOSone, Radiation Research, Toxicology Letters, Scientific Report, BIOPHA, BBA, International Journal of Environmental Research and Public Health, Bioelectrochemistry, Pharmaceutics, Cancer, Genetics and Applications, Environmental research, BMJ Open.

## Research activity

1991 - present	Biological effects of electromagnetic fields from ELF to microwaves
1994 - present	Genotoxicity of chemical mutagens in mammalian cell cultures
2000 - present	Biological effects of co-exposures to electromagnetic fields and chemical agents
2001 - present	Biological effects of THz radiation
2006 - present	Biological effects of nanosecond electric pulses
2007 - present	Cytotoxicity of nanoparticles
2011 - present	Evaluation of the occupational risk from exposure to electromagnetic fields in use for Nuclear Magnetic Resonance
2011 - present	Critical revision of the literature for the health risk evaluation due to EMF exposure
2014 – present	Time-domain THz spectroscopy for the evaluation of molecular mechanisms underlying mammalian cell electroporation

## Scientific Publications

1991-present

Co-author of about 90 publications and book chapters, and of about 120 participations to conferences.

## Bibliometric indices

**H-index 22 (Scopus); citation 1296**

### List of publications of Olga Zeni

(only peer reviewed journals)

<https://orcid.org/0000-0002-2432-2384>

1. Zeni O, Romeo S, Sannino A, Palumbo R, Scarfi MR. Evidence of bystander effect induced by radiofrequency radiation in a human neuroblastoma cell line. *Environmental Research* 196(2):110935 [10.1016/j.envres.2021.110935](https://doi.org/10.1016/j.envres.2021.110935)
2. Romeo S, Zeni O, Sannino A, Lagorio S, Biffoni M, Scarfi MR. Genotoxicity of radiofrequency electromagnetic fields: Protocol for a systematic review of in vitro studies. *Environment International* 148:106386 DOI: [10.1016/j.envint.2021.106386](https://doi.org/10.1016/j.envint.2021.106386)
3. Sannino A, Zeni O, Romeo S, Lioi MB, Scarfi MR. Treatment with 3-Aminobenzamide negates the Radiofrequency-Induced Adaptive Response in Two Cell Models. *Int J Environ Res Public Health*. 2019 Aug 2;16(15).
4. Romeo, S.; Sannino, A.; Zeni, O.; Angrisani, L.; Massa, R.; Scarfi, M.R. Effects of Radiofrequency Exposure and Co-Exposure on Human Lymphocytes: the Influence of Signal Modulation and Bandwidth. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology* 2019. doi:[10.1109/JERM.2019.2918023](https://doi.org/10.1109/JERM.2019.2918023).
5. Mattsson MO, Zeni O, Simkó M, Scarfi MR. Editorial: Effects of Combined EMF Exposures and Co-exposures. *Front Public Health*. 2018 Aug 20;6:230. doi: [10.3389/fpubh.2018.00230](https://doi.org/10.3389/fpubh.2018.00230). eCollection 2018.
6. Falone S, Sannino A, Romeo S, Zeni O, Santini SJ, Rispoli R, Amicarelli F, Scarfi MR. Protective effect of 1950 MHz electromagnetic field in human neuroblastoma cells challenged with menadione. *Sci Rep*. 2018 Sep 5;8(1):13234. doi: [10.1038/s41598-018-31636-7](https://doi.org/10.1038/s41598-018-31636-7).
7. Romeo S, Vernier PT, Zeni O. Electroporation-induced cell modifications detected with THz time domain spectroscopy. *Journal of Infrared Millimeter Terahertz Waves* <https://doi.org/10.1007/s10762-018-0489-z>
8. Mattsson MO, Zeni O, Simko M, Is there a biological basis for therapeutic applications of millimeter waves and THz waves? *Journal of Infrared Millimeter Terahertz Waves*. <https://doi.org/10.1007/s10762-018-0483-5>
9. Gallerano GP, Park GS, Ramundo Orlando A, Zeni O. Guest editorial: special issue on THz Radiation applied to biophysical, biological, and biomedical sciences. *Journal of Infrared Millimeter Terahertz Waves*. <https://doi.org/10.1007/s10762-018-0517-z>
10. Romeo S, Sannino A, Scarfi MR, Vernier PT, Cadossi R, Gehl J, Zeni O. ESOPE-Equivalent Pulsing Protocols for Calcium Electroporation: An In Vitro Optimization Study on 2 Cancer Cell Models. *Technol Cancer Res Treat*. 2018 Jan 1;17:1533033818788072. doi: [10.1177/1533033818788072](https://doi.org/10.1177/1533033818788072).
11. Hartwig V, Romeo S, Zeni O. Occupational exposure to electromagnetic fields in magnetic resonance environment: basic aspects and review of exposure assessment approaches. *Med Biol Eng Comput*. 2018 Jan 18. doi: [10.1007/s11517-017-1779-7](https://doi.org/10.1007/s11517-017-1779-7).

12. Sannino A, Romeo S, Scarfi MR, Massa R, d'Angelo R, Petrillo A, Cerciello V, Fusco R, Zeni O. Exposure Assessment and Biomonitoring of Workers in Magnetic Resonance Environment: An Exploratory Study. *Front Public Health*. 2017 Dec 18; 5:344. doi: 10.3389/fpubh.2017.00344.
13. Zeni O, Simkó M, Scarfi MR, Mattsson MO. Cellular Response to ELF-MF and Heat: Evidence for a Common Involvement of Heat Shock Proteins? *Front Public Health*. 2017 Oct 18;5:280. doi: 10.3389/fpubh.2017.00280. eCollection 2017. Review.
14. Sannino A, Zeni O, Romeo S, Massa R, Scarfi MR. Adverse and beneficial effects in Chinese hamster lung fibroblast cells following radiofrequency exposure. *Bioelectromagnetics*. 2017 , 38, 245-254.
15. Simkó M, Remondini D, Zeni O, Scarfi MR. Quality Matters: Systematic Analysis of Endpoints Related to "Cellular Life" in Vitro Data of Radiofrequency Electromagnetic Field Exposure. *Int J Environ Res Public Health*. 2016 Jul 12;13(7). pii: E701. doi: 10.3390/ijerph13070701. Review
16. Lukes P, Akiyama H, Jiang C, Doria A, Gallerano GP, Ramundo-Orlando A, Romeo S, Scarfi MR, Zeni O. Special electromagnetic agents: from cold plasma to pulsed electromagnetic radiation. In *Bioelectrics*. Chap. 3: 109-154. H. Akiyama and R. Heller Eds. ISBN 978-4-431-56093-7; DOI 10.1007/978-4-431-56095-1. Springer Japan.
17. S. Romeo, A. Sannino, M.R. Scarfi, R. Massa, R. d'Angelo, O. Zeni, "Lack of effects on key cellular parameters of MRC-5 human lung fibroblasts exposed to 370 mT static magnetic field", *Sci Rep*. 2016 Jan 14;6:19398. doi: 10.1038/srep19398.
18. P. Lamberti, S. Romeo, A. Sannino, L. Zeni, O. Zeni, "The Role of Pulse Repetition Rate in nsPEF-induced Electroporation: A Biological and Numerical Investigation", *IEEE Trans Biomed Eng*. 62(9): 2234-2243, 2015. doi:10.1109/TBME.2015.2419813
19. Scientific Committee on Emerging Newly Identified Health Risks (Zeni O and Scarfi MR). Opinion on Potential Health Effects of Exposure to Electromagnetic Fields. *Bioelectromagnetics*, 36:480-484, 2015.
20. Zeni O, A. Sannino, S. Romeo, F. Micciulla, S. Bellucci, M. R. Scarfi (2014) Growth inhibition, cell cycle alteration and apoptosis in stimulated human peripheral blood lymphocytes by multiwalled carbon nanotube buckypaper, *Future Medicine – Nanomedicine (Lond)*. May 13:1-10. [Epub ahead of print]
21. Sannino A., Zeni O, Romeo S, Massa R, Gialanella G, Grossi G, Manti L, Vijayalaxmi, Scarfi MR. (2014) Adaptive response in human blood lymphocytes exposed to non-ionizing radiofrequency fields: resistance to ionizing radiation-induced damage, *J. Rad Res* 55, pp 210-217.
22. Stefania Romeo, Claudio D'Avino, Olga Zeni, Luigi Zeni, A Blumlein-type, Nanosecond Pulse Generator with Interchangeable Transmission Lines for bioelectrical applications, *IEEE Trans. on Dielectrics and Electrical Insulation*. 20 (4),1224-1230 (2013).
23. Lamberti P., Vincenzo Tucci, Stefania Romeo, Anna Sannino, Maria Rosaria Scarfi, Olga Zeni. (2013). nsPEF-induced effects on cell membranes: the use of an electrophysical model to optimize the experimental design, *IEEE Trans. on Dielectrics and Electrical Insulation*, Vol. 20, Issue 4, pp. 1231-1238.
24. Romeo S., Claudio D'Avino, Daniele Pinchera, Olga Zeni, Maria Rosaria Scarfi, Rita Massa (2013) A waveguide applicator for in vitro exposures to single or multiple ICT frequencies, *IEEE Trans. Microwave Theory and Techniques*, Vol. 61, No. 5, pp: 1994-2004
25. Zeni O, Sannino A, Sarti M, Romeo S, Massa R, Scarfi MR (2012) Radiofrequency radiation at 1950 MHz, UMTS signal, does not affect some cellular endpoints relevant for carcinogenesis in neural-like PC12 cells. *Bioelectromagnetics*, 33(6): 497-507.
26. Sansone M, Zeni O, Esposito G. Automated segmentation of comet assay imaging using Gaussian filtering and fuzzy clustering. *Medical and Biological Engineering*, 50(5): 523-32, 2012 ISSN: 0140-0118.
27. Zeni O, Sannino A, Romeo S, Massa R, Sarti M, Reddy AB, Prihoda TJ, Vijayalaxmi, Scarfi MR (2012) Induction of an adaptive response in human blood lymphocytes exposed to radiofrequency fields: Influence of the universal mobile telecommunication system (UMTS) signal and the specific absorption rate, *Mutat. Res.*, 747: 29-35

28. Romeo S, Zeni L, Sarti M, Sannino A, Scarfi MR, Vernier PT, Zeni O (2011) DNA electrophoretic migration patterns change after exposure of Jurkat cells to a single intense nanosecond electric pulse. *PLoSOne*, 6(12). Doi10.1371/journal.pone.0028419
29. Zeni O, Sannino A, Romeo S, Scarfi MR, Colderoni L, Micciulla F, Sacco I, Bellucci S (2011) Cytotoxicity of Multiwalled Carbon Nanotube Bucky paper in Human Lymphocytes. *Sensors and Microsystems - Lecture Notes in Electrical Engineering*, Volume 91, Part 5, 489-493, DOI: 10.1007/978-94-007-1324-6-80.
30. Sannino A, Zeni O, Sarti M, Romeo S, Reddy SB, Belisario A, Prihoda TJ, Vijayalaxmi, Scarfi MR (2011) Characterization of Radiofrequency-induced Adaptive Response in human peripheral blood lymphocytes: cell cycle effects. *Int. J. Radiat Biol*, 87 (7): 1–8.
31. Sannino A, Di Costanzo G, Brescia F, Sarti M, Zeni O, Juutilainen J and Scarfi MR: Human fibroblasts and 900 MHz RF radiation: evaluation of DNA damage after exposure and co-exposure to 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5h)-furanone (MX). *Radiat Res.*, 171, 743–751 (2009)
32. Zeni O, Palumbo R, Bernini R, Zeni L, Sarti M, Scarfi MR: Cytotoxicity of single-wall nanotubes on cultured human lymphocytes. *Sensors*, 8, 485-496 (2008).
33. Zeni O, Schiavoni A, Perrotta A, Forigo D, Deplano M, Scarfi MR: Evaluation of genotoxic effects in human leukocytes after in vitro exposure to 1950 MHz UMTS radiofrequency field. *Bioelectromagnetics*, 29, 177-184 (2008).
34. Zeni O, Gallerano GP, Perrotta A, Romanò M, Sannino A, Sarti M, D'Arienzo M, Doria A, Giovenale E, Lai A, Messina G, Scarfi MR: Cytogenetic observations in human peripheral blood leukocytes following in vitro exposure to THz radiation: a pilot study. *Health Physics*, 92 (4), 349-357 (2007)
35. Zeni O, Di Pietro R, d'Ambrosio G, Massa R, Capri M, Naarala J, Juutilainen J, Scarfi MR: Kinetics of reactive oxygen species formation in L929 cell cultures following exposure and co-exposure to RF radiation (900 MHz) and 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX). *Radiation Res.*, 167(3),306-311 (2007)
36. Zeni O, Romanò M, Perrotta A, Lioi MB, Barbieri R, d'Ambrosio G, Massa R, Scarfi MR: Evaluation of genotoxic effects in human peripheral blood leukocytes following an acute in vitro exposure to 900 MHz Radiofrequency Field. *Bioelectromagnetics*, 26(4), 258-65 (2005)
37. Zeni O, Di Pietro R, Salvemini F, Buonincontri D, Komulainen H, Romanò M, Scarfi MR: Induction of oxidative stress in murine cell lines by 3-chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone (MX). *Toxicology Letters*, 147, 79-85 (2004)
38. Doria A, Gallerano GP, Giovenale E, Messina G, Lai A, Ramundo-Orlando A, Sposato V, D'Arienzo M, Perrotta A, Romanò M, Sarti M, Scarfi MR, Spassovsky I, Zeni O: THz radiation studies on biological systems at the ENEA FEL Facility. *IR Physics and Technology*, 45, 339-47 (2004)
39. Scarfi MR, Romanò M, Di Pietro R, Zeni O, Doria A, Gallerano GP, Giovenale E, Messina G, Lai A, Campurra G, Coniglio D, D'Arienzo M: THz exposure of whole blood for the study of biological effects on human lymphocytes. *Journal of Biological Physics*, 29 (2),171-177 (2003)
40. Zeni O, Schiavoni A, Sannino A, Antolini A, Forigo D, Bersani F, Scarfi MR: Lack of genotoxic effects (micronucleus induction) in human lymphocytes exposed in vitro to 900 MHz electromagnetic fields. *Radiation Research*, 160, 152-158 (2003)
41. d'Ambrosio G, Massa R, Scarfi MR, Zeni O: Cytogenetic damage in human lymphocytes following GMSK phase modulated microwave exposure. *Bioelectromagnetics*, 23, 7-13 (2002)
42. Zeni O, Bersani F, Scarfi MR: Radiological workers sensitivity to 50 Hz pulsed magnetic fields: Preliminary Results. *Radiat. Environmental Biophysics*,41, 275-279 (2002)
43. Zeni O, Lioi MB, D'Alisa A, Sorrentino M, Salvemini, Scarfi MR: Combined exposure to ELF magnetic fields and chemical mutagens: lack of genotoxic effects in human lymphocytes. *Electro & Magneto-biology*, 20 (3), 331-341 (2001)
44. Scarfi MR, Lioi MB, Zeni O, Della Noce M, Franceschi C, Bersani F: Micronucleus frequency and cell proliferation in human lymphocytes exposed to 50 Hz sinusoidal magnetic fields. *Health Physics*, 76(3), 244-250 (1999)
45. La Cara F, D'Auria S, Scarfi MR, Zeni O, Massa R, d'Ambrosio G, Franceschetti G, De Rosa M, Rossi M: Microwave exposure effect on a Thermophilic Alcohol Dehydrogenase. *Protein and Peptide Letters*, 6 (3), 155-162 (1999)

46. Lioi MB, Scarfì MR, Santoro A, Barbieri R, Zeni O, Salvemini F, Di Berardino D, Ursini MV: Cytogenetic damage and induction of pro-oxidant state in human lymphocytes exposed in vitro to glyphosate, vinclozolin, atrazine and DPX-E9636. *Environ. Mol. Mut.*, 32, 39-46 (1998)
47. Lioi MB, Scarfì MR, Santoro A, Barbieri R, Zeni O, Di Berardino D, Ursini MV: Genotoxicity and oxidative stress induced by pesticide exposure in bovine lymphocytes cultured in vitro. *Mutation Res.*, 403, 13-20, (1998)
48. Scarfì MR, Prisco F, Lioi MB, Bersani F, Franceschetti G, Zeni O, Di Pietro R, Della Noce M, Franceschi C, Iafusco D, Motta M, Stoppoloni G: Extremely low frequency pulsed magnetic field cytogenetic effects on lymphocytes from Turner's syndrome subjects. *Bioelectrochem. & Bioenerg.*, 43, 221-226, (1997)
49. Scarfì MR, Lioi MB, Della Noce M, Zeni O, Franceschi C, Monti D, Castellani G, Bersani F: Exposure to 100 Hz pulsed magnetic fields increase micronucleus frequency and cell proliferation in human lymphocytes. *Bioelectrochem. & Bioenerg.*, 43 (1), 77-81, (1997)
50. Scarfì MR, Prisco F, Lioi MB, Zeni O, Della Noce M, Di Pietro R, Franceschi C, Bersani F: 50 Hz, 1 mT sinusoidal magnetic fields do not affect micronucleus frequency and cell proliferation in human lymphocytes from normal and Turner's syndrome subjects. *Electro & magnetobiology*, 16(3), 301-307, (1997)
51. Scarfì MR, Prisco F, Lioi MB, Bersani F, Zeni O, Di Pietro R, Franceschi C, Iafusco D, Stoppoloni G: Spontaneous and mitomycin-C induced micronuclei in lymphocytes from Turner's syndrome subjects. *Mutation Res.*, 357, 183-190, 1996
52. Scarfì MR, Lioi MB, d'Ambrosio G, Massa R, Zeni O, Di Pietro R, Di Berardino D: Genotoxic effects of Mitomycin-C and microwave radiation on bovine lymphocytes. *Electro-and Magnetobiology*, 15 (2), 99-107, 1996
53. d'Ambrosio G, Lioi MB, Massa R, Scarfì MR, Zeni O: Genotoxic effects of amplitude modulated microwaves on human lymphocytes exposed "in vitro" under controlled conditions. *Electro-and Magnetobiology*, 14 (3), 157-164, 1995
54. Scarfì MR, Lioi MB, Zeni O, Franceschetti G, Franceschi C, Bersani F: Lack of chromosomal aberrations and micronuclei induction in human lymphocytes exposed to pulsed magnetic fields. *Mutation Research*, 306, 129-133, 1994.
55. Scarfì MR, Lioi MB, Di Berardino D, Zeni O, Coviello A, Matassino D: Measurement of micronuclei by cytokinesis-block method in cultured bovine lymphocytes. *Mutation Research*, 289, 291-295, 1993.
56. Scarfì MR, Bersani F, Cossarizza A, Monti D, Zeni O, Lioi MB, Franceschetti G, Franceschi C: 50 Hz a.c. sinusoidal electric fields do not exert genotoxic effects (micronuclei formation) in human lymphocytes. *Radiation Research*, 135, 64-68, 1993.