

## Livio Giuliani's Curriculum Vitae

Born in Rome-Italy- the 25<sup>th</sup> /08/1950.

Director of the Dipartiment Ispesl of Florence- Italy

Director- interim of Dipartiment Ispesl of Bolzano ( Tirol – Italy).

Director of research unit 2Pollution from radians and utrasounds” Ispesl.

Livio Giuliani earned his **laurea cum laude in mathematics** on **1974** and served as Assistant and Lecturer (appointed of university course of exercises) at the Institute of Mathematics, Sapienza University of Rome) (1974/75).

Dr. Giuliani has been conducting research on radioprotection for over 30 years.

From **1975** to 1982, he worked as **Researcher** at the Personnel Dosimetry Lab of ENPI (Institute of the Italian **Labour Ministry**), whose film dosimetry and TLD procedures were employed to monitor over 40.000 IR exposed workers in Italy.

Since affiliating with ISPEL (*Higher Institute* within the Italian **Health Ministry**), he gained the level of **senior researcher** on **July 23 1987**. His main professional interests have been worker protection against non-ionizing radiation and electrical and magnetic fields. Since 1988, he has monitored radiofrequency antennas and co-location facilities as well as high voltage power lines.

As a member of the Italian Ministries Working Group Commission for Electromagnetic Field (Decree June 2<sup>nd</sup> 1997 of the Ministry of Environment) he contributed to the adoption of the Italian Government exposure guidelines (Decree 1998/381) and of the Italian law 2001/36 – Frame of restrictions about electromagnetic people exposures - and, in recognition of his contributions, he was named “father of the 6 V/m (0,1W/m<sup>2</sup> ) RF/MW limit” by the national press (La Repubblica, 20/1/2003, Corriere della Sera etc.) He provided the scientific rationale for the Italian framework of restriction that govern public EMF exposure which the Italian Government recommended that the EU Council adopt on October 1998, instead of the ICNIRP framework. The Italian Government recommendation to the EU was written according to the May 5, 1994 and March 10, 1999 EU Parliament Resolutions, and the precautionary principle was also applied as the basis for the EU EMF protection framework (EU Council Recommendation 1999/519, which did not include the Italian and EU Parliament suggestions, but refers to marginal issues). He was member of EU Council Group of Experts appointed of the draft of the EU Rec 1999/519/CE.

He was named **director of researches** at the Italian Ministry of Health on **July 8<sup>th</sup> 1998**. This qualification, in the Higher Insitutes of the Health Ministry, implies the title of *full professor*, according to the Italian Law 1973/572 and related Decrees (cfr DPR 1980/619 art. 16).

**Chief of research programs** of the Italian Health Ministry (since 1998) he is the **chief of the Radiation and Ultrasounds Research Laboratory** of ISPEL form July 8<sup>th</sup> 1998 up to the present time.

**Chief of both the Tuscany and South Tirol Deputies of ISPEL** (since 2004), where he has lead a large EMF research program, with the participation of scientific institutions like the Italian National Council of Researches (CNR, Bologna and Rome Labs), the Italian Nuclear Energy Committee (ENEA, Frascati), the National Institute for Nuclear Physics (INFN, Milano University Section), the Cancer Researches Institute of the B. Ramazzini Foundation (Bologna) and others, concerning both fundamental and the phenomenological issues of the interaction between EMF and biological systems.

On June 1 2010 ISPESL was incorporated by INAIL (National Institute for Workers Insurances).

**Professor on contract** to teach **Bioelectromagnetics** at the Higher School of Biochemistry

of **University of Camerino (1999-2010)**, now he is

**professor on contract** to teach **Mathematics** at the Department of Ecology and Biology of the **University of Tuscia** (since **2012**).

Consultant of Italian Courts (Tribunale of Lucca, Siena, Catania, Caltagirone, Procure della Repubblica di Napoli, Vasto, Roma, Belluno, Bolzano) and of the Conil of State (2000).

He served on the World Health Organization's Precautionary Principle Working Group (February 2003) and was co-chair at many international meetings.

He is a co-founder of the International Commission For Electromanetic Safety (ICEMS) and has served as its spokesman since this organization was founded in 2003. He is in the scientific panel of the European Cancer Research Institute (ECERI) in Bruxelles, already in the Scientific Panel of the Regional Environment Protection Agency (ARPA) of Emilia Romagna (1999-2001).

### Some peer reviewed international papers

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2. Grimaldi S., **Giuliani L.**, Lisi A., Pozzi D., Rieti S., Manni V., Ravagnan G. **Risk exposure to extremely low frequencies and to amplitude modulated radiofrequencies.** International Journal of Radiation Medicine, **1**(5): 104-107, 2000.
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5. Manni V., Lisi A., Pozzi D., Rieti S., Serafino A., **Giuliani L.**, Ravagnan G., Grimaldi S. **Effects of extremely low frequency (50 Hz) magnetic field on morphological and biochemical properties of human keratinocytes.** Bioelectromagnetics, **23**(4): 298-305, 2002.
6. Del Giudice E., De Ninno A., D'Emilia E., Elia V., Fleishman M., **Giuliani L.**, Sacco D., Talpo G. **“On the unreasonable effect of ELF magnetic fields on a system of ions- Appendix C** , Bioelectromagnetics, **23**(7):530, 2002
7. Rieti S., Manni V., Lisi A., Generosi R., Luce M., Perfetti P., Cricenti A., Pozzi D., **Giuliani L.**, Grimaldi S. **Morphological and biochemical analysis by AFM and SNOM techniques of human keratinocytes (HaCaT) exposed to extremely low**

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8. Rieti S., Manni V., Lisi A., Pozzi D., **Giuliani L.**, Cricenti A., Generosi R., Luce M., Grimaldi S. **SNOM and AFM microscopy techniques to study the effect of non-ionizing radiation on the morphological and biochemical properties of human keratinocytes cell line (HaCaT).** Journal Microscopy, **213**(Pt 1): 20-28, 2004
  9. Manni V., Lisi A., Rieti S., Serafino A., Ledda M., **Giuliani L.**, Sacco D., D'Emilia E., Grimaldi S. **Low electromagnetic field (50 Hz) induces differentiation on primary human oral keratinocytes (HOK).** Bioelectromagnetics, **25**(2): 118-126, 2004
  10. Marinelli F., La Sala D., Ciccio G., Cattini L., Trimarchi C., Putti S., Zamparelli A., **Giuliani L.**, Tomassetti G., Cinti C. **Exposure to 900 MHz Electromagnetic fields induce an unbalance between proapoptotic and prosurvival signals in T-lymphoblastoid leukaemia CCRF-CEM cells,** Journal of Cellular Physiology, 198:324-332, 2004
  11. Grimaldi S, Lisi A, Rieti S, Manni V, Ledda M, Giuliani L., **Influence of 50-Hz electromagnetic field on anurian (Xenopus laevis) metamorphosis,** Scientific World Journal, **4** (2): 41-7;2004.
  12. Lisi A., Ciotti M.T. Ledda M., Pieri M., Zona C., Mercanti D., Rieti S., **Giuliani L.**, Grimaldi S., **Exposure to 50Hz electro-magnetic radiation promote early maturation and differentiation in newborn rat cerebellar granule neurons,** J Cell Physiol 204:532-538; 2005
  13. Comisso N., Del Giudice E., De Ninno A., Fleischmann M., **Giuliani L.**, Mengoli G., Merlo F., Talpo G. **Dynamics of the ion cyclotron resonance effect on amino acids adsorbed at the interfaces,** Bioelectromagnetics 27(1):16-25,2006
  14. Lisi A., Ledda M., Rosola E., Rieti S., Pozzi D., D'Emilia E., **Giuliani L.**, Foletti A., Grimaldi S., **Extremely low frequency electromagnetic field exposure promote differentiation of pituitary corticotrope-derived AtT20 D16V cells ,** Bioelectromagnetics, 27(8):641-51, 2006
  15. Udriou I., Cristaldi M., Ieradi L.A., Bedini A., **Giuliani L.**, Tanzarella C., **Clastogenicity and aneuploidy in newborn and adult mice exposed to 50 Hz magnetic fields"** accepted by International Journal of Radiation Biology, 82 (8):561-7
  16. Zhadin M.N., **Giuliani L.**, **Some problems in modern bioelectromagnetics,** Electromagnetics, Biology, Medicine, 25(4):227-243, 2006.
  17. Lisi A, Foletti A, Ledda M, Rosola E, Giuliani L, D'Emilia E, Grimaldi S., **Extremely Low Frequency 7 Hz 100  $\mu$ T Electromagnetic Radiation Promotes Differentiation in the Human Epithelial Cell Line HaCaT,** Electromagnetic Biology and Medicine, 25(4): 269-280, 2006.

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20. Zhadin M.N., Barnes F., **Giuliani L.**, **Response to “a few remarks on ‘combined action of DC and AC magnetic fields on ion motion in macromolecules’” by Binhi**, *Bioelectromagnetics*, 28(5):412-413, 2007.
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23. Udrouiu I., Ieradi L.A., Bedini A., **Giuliani L.**, Cristaldi M., **Genotoxic and haematotoxic damage induced by ELF magnetic fields**, *Europ. Journ. Oncol.* 2008, 13(4).
24. **Giuliani L.**, D'Emilia E., Grimaldi S., Lisi A., Bobkova N., Zhadin M.N., **Investigating the Icr Effect in a Zhadin'S Cell**, *International journal of Biomedical science*, 5(1):100-105, 2009.
25. Gaetani R., Lisi A., Giacomello A. Grimaldi A., **Giuliani L.** et al., **Differentiation of human adult cardiac stem cells exposed to Extremely low Frequency Electromagnetic Fields**, *Cardiovascular Research*, accepted on Feb. 17<sup>th</sup> 2009
26. Conti L., Grimaldi P., Udrouiu I., Bedini A., Giliberti C., **Giuliani L.**, Palomba R., **Effects induced in cells by ultrasound revealed by ATR-FTIR spectroscopy**. *Vibrat. Spectrosc.*(2009) DOI: 10.1016/j.vibspec.2009.11.001
27. Marchioni C., Riccardi E., Spinelli S., Dell'Unto F., Grimaldi P., Bedini A., Giliberti C., **Giuliani L.**, Palomba R., Congiu Castellano A., **Structural changes induced in proteins by therapeutic ultrasounds**. *Ultrasonics* 49 (2009) 569-576.
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36. Ledda M, Megiorni F, Pozzi D, **Giuliani L**, Piccirillo S, Mattei C, Grimaldi S, Lisi A, **Non Ionising Radiation as a Non Chemical Strategy in Regenerative Medicine: Ca<sup>2+</sup>-ICR "In Vitro" Effect on Neuronal Differentiation and Tumorigenicity Modulation in NT2 Cells.** PLOS One April 09, 2013, DOI: 10.1371/journal.pone.0061535.
37. Di Bonaventura G, Pompilio A, Crocetta V, Di Nicola S, Barbaro F, **Giuliani L**, D'Emilia E, Fiscarelli E, Bellomo R G, Saggini R. **A novel strategy for fighting infections in cystic fibrosis patients: in vitro effects of extremely low frequency electromagnetic fields against bacterial growth and biofilm formation.** Submitted to Future Medicine, reviewed, 2014.

38. D'Emilia E, **Giuliani L**, Lisi A, Ledda M, Grimaldi S, Montagnier L, Liboff AR. **Lorentz force in water: Evidence that Hydronium cyclotron resonance enhances polymorphism.** Submitted to Electrom. Biol. Med. 2014

### **Some proceedings and Abstracts – international congresses**

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2. **Giuliani L.**, Vignati M., Graziani R., Santoro N., Lisi A., Pozzi D., Rieti S., Pasquali E., Ravagnan G., Grimaldi S. **Elettrosmog: possible effect on human health.** Proceedings ARIA 97, 1998.
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4. Pozzi D., Santoro N., Lisi A., Pasquali E., Serafino A.L., **Giuliani L.**, Vignati M., Grimaldi S. **Effect of extremely low frequency (ELF) magnetic field exposure on morphological and biophysical properties of human lymphoid cell line (Raji).** Book of Abstract of the Second World Congress for Electricity and Magnetism in Biology and Medicine, Bologna, Italy, June 8-13, 1997.
5. **Giuliani L.**, **Proposta dell'ISPESL a seguito del documento congiunto ISPESL-ISS sui campi elettromagnetici**, Atti del Convegno "Radiofrequenze e microonde: la salute a rischio?", Trento 5-6 febbraio 1998 (convegno nazionale)
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9. Bedini A., D'Emilia E., Giliberti C., Borra M., Mariani M., Palomba R., **Giuliani L.**, **Feasibility study on a radio frequency exposure system**; Proceedings of the International Conference on Electromagnetic in Advanced Applications (*ICEAA 01*), Torino 10-14 Settembre 2001 pg. 893-8967

10. Borra M., Barone Adesi G., Bedini A., Giliberti C., Palomba R., **Giuliani L., Technical procedures to evaluate the electric and magnetic field measurements near areas for children's use in the territory of Trento (Italy)** ", Atti dell'8° Convegno di Igiene Industriale "Le Giornate di Corvara", Corvara (BZ), Italia, 20-22 marzo 2002.
11. F. Panin, G. Barone Adesi, A. Bedini, M. Borra, C. Giliberti, **L. Giuliani, Analytic Method To Estimate The Magnetic Induction Produced By Electrical Equipments And Electric Lines Near Transformer Rooms; Comparison With The Measurements.**, Book of Abstracts, VIII Convegno di Igiene Industriale "Le Giornate di Corvara" Corvara (BZ), Italia 20-22 marzo 2002,
12. A. Bedini, E. D'Emilia, C. Giliberti, M. Borra, M. Mariani, R. Palomba, **L. Giuliani, Electromagnetic Characterization of a Radio-Frequency Emitting System realized by a suitable combination of flat strip lines.**, Book of Abstracts VIII Convegno di Igiene Industriale "Le Giornate di Corvara" Corvara (BZ), Italia 20-22 marzo 2002
13. C. Giliberti, G. Barone-Adesi, A. Bedini, R. Palomba, M. Borra, F. Panin, **Giuliani L., People Exposure Minimization To High Frequency Electromagnetic Field For The Localization Of Cell Tower Sites In Urban Areas: an application in the town of Rovereto** , Book of Abstracts, VIII Convegno di Igiene Industriale "Le Giornate di Corvara" Corvara (BZ), Italia, 20-22 marzo 2002
14. Manni V., Lisi A., Pozzi D., Rieti S., **Giuliani L., Grimaldi S. Effect of low frequency (50 Hz) electromagnetic field on primary human oral keratinocytes (HOK).** BEMS 2002, Twenty-Fourth Annual Meeting, Québec City, Québec, Canada, June 23-27, 2002.
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28. **Giuliani L.** & oth., Reports in Book of Abstract RCNIRP-Russian Academy of Sciences, WHO Meeting “Mobile Communication and Health”, Moscow, September 16-17, 2004
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### Proceedings and abstract interview in International congresses during year 2009

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