

Curriculum Vitae
Prof. Dr. Nesrin SEYHAN



Executive Profile:

- **Founder and Head of Biophysics Department in Gazi University, Faculty of Medicine**
(www.biyofizik.gazi.edu.tr)
- **Founder and Director of Gazi Non-Ionizing Radiation Protection Center (GNRP)**
(www.gnrk.gazi.edu.tr)
- **World Health Organization (WHO) ElectroMagnetic Fields (EMF) International Advisory Committee (IAC) Turkey Representative**
(<http://www.who.int/peh-emf/project/mapnatreps/turkey/en/index.html>)
- **International Commission for ElectroMagnetic Safety (ICEMS), Member of Scientific Committee Secretariat** (<http://www.icems.eu/>) –
- **Scientific Advisor to “h.e.s.e. - human ecological social economical” Project**
<http://www.hese-project.org/hese-uk/en/heseuk/who.php>
- **Panel Member NATO RTA Human Factors and Medicine**
<http://www.rta.nato.int/Main.asp?topic=hfm.htm>
- **Three International Projects (EU, WHO and UNESCO), Seven National Projects, Authorship of Two Books, Twenty-Nine International Peer-Reviewed Publications and Forty-Six International Proceedings**

Education

- University;

MIDDLE EAST TECHNICAL UNIVERSITY (METU)
Department of Physics (B.S. Degree) June 1974
Ankara, TURKEY

- Post Graduate Studies;

1975-1976 : Special Student for Master Program (METU, Dept of Computer Engineering)
1976-1980 : Completion of Master Program heavily on Query Languages
1980-1983 : Ph.D. in Biophysics
1983-1987 : Assoc. Professorship in Biophysics
1995 - : Professorship

Contact Information

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www.gnrk.gazi.edu.tr (GNRP Center web site)

www.emk.gazi.edu.tr (Electromagnetic Pollution web site)

Membership

- International Advisory Committee on Electromagnetic Fields, WHO
- International Commission for Electromagnetic Safety, ICEMS
- Information Processing Association of Turkey
- Middle East Technical University Alumni Society
- The Foundation for Woman's Solidarity (founder member)
- Turkish Biophysics Association
- Turkish Medical Physics Association

Research Area

- EM (ElectroMagnetic) Pollution and Human Health
- Non-Ionizing Radiation Sources and Standards (ICNIRP, IEEE, FCC, CENELEC, Turkey's Standards – Telecommunication Authority)
- Biological Effects of Extremely Low Frequency (ELF) Electromagnetic Radiation (50 Hz)
- Biological Effects of Radio Frequency Radiation (RFR)
- Measurements of EMF (0 Hz – 60 GHz) from base stations, TV and Radio transmitters, transformers, High Power Lines, Sealing systems, diathermy and MRI units, cellular phones etc.

Publications

Books

1. **SEYHAN N., CANSEVEN A.G., GÜLER G.;** “Animal Studies on the Effect of SMF and ELF EMF” in "Bioelectromagnetics: Current Concepts", Eds. S. Ayrapetyan (Armenia) & M. Markov (USA), NATO Science Series, pp 195-212, Publisher: Springer Press, the Netherlands, 2006, ISBN: 1-4020-4277-9.
2. **SEYHAN ATALAY, N., KARAKAŞ, Ü.:** ““Going to Information Society, Electromagnetic Pollution Effects Symposium’1999” 11 November, 1999, Ankara, Turkey, Gazi University Faculty of Medicine, Ankara, ISBN: 975-507- 082-(1999) (Turkish).

Some of the Selected Articles

1. GÜLER G, TÜRKÖZER Z, **SEYHAN N.** Electric field effects on Guinea pig serum: The role of free radicals. *Electromagn Biol Med.* 2007; 26(3): 207-23.
2. CANSEVEN AG, KESKİL ZA, KESKİL S, **SEYHAN N.** Pentylenetetrazol-induced seizures are not altered by pre- or post-drug exposure to a 50 Hz magnetic field. *Int J Radiat Biol.* 2007; 83(4):231-5.
3. TOHUMOĞLU G, CANSEVEN AG, CEVİK A, **SEYHAN N.** Formulation of ELF magnetic fields' effects on malondialdehyde level and myeloperoxidase activity in kidney using genetic programming. *Comput Methods Programs Biomed.* 2007; 86(1):1-9.
4. **SEYHAN N,** CANSEVEN A.G. In Vivo Effects of ELF MFs on Collagen Synthesis, Free Radical Processes, Natural Antioxidant System, Respiratory Burst System, Immune System Activities, and Electrolytes in the Skin, Plasma, Spleen, Lung, Kidney, and Brain Tissues, *Electromagn Biol Med.* 2006; 25 (4):291-305.
5. **SEYHAN N.,** GÜLER G. Review of In Vivo Static and ELF Electric Fields Studies Performed at Gazi Biophysics Department, *Electromagn Biol Med.* 2006; 25 (4): 307-323.
6. GÜLER G., **SEYHAN N.** Effect of Static and 50 Hz Electric Fields on the Activity of Superoxide Dismutase and the Level of Thiobarbituric Acid-Reactive Substances in Guinea Pigs, *General Physiology and Biophysics.* 2006; 25(2):177-93
7. CANSEVEN, A.G., **SEYHAN, N.,** Mirshahidi, S., Imir, T. (2006). Suppression of Natural Killer Cell Activity on *Candida Stellatoidea* by a 50 Hz Magnetic Field., *Electromagn Biol Med.* 2006;25(2):79-85.
8. ERAR H., SUNTER A:T., TUNCER E., AKER S., SIRAV B, **SEYHAN N.;** “The Prevalence of Cellular Phone Usage in Turkish Secondary and High School Students” ; European Biology and Bioelectromagnetics, Volume I, Issue 3, pp 280-293, (2005).
9. KESKİL, I.S., KESKİL Z.A., CANSEVEN A.G. and **SEYHAN N.;** No effect of 50 Hz Magnetic Field Observed in a Pilot Study on Pentylenetetrazol - Induced Seizures and Mortality in Mice, *Epilepsy Research*, 44, 27-32 (2001).
10. GÜLER, G., **ATALAY SEYHAN, N.:** Changes in Hydroxyproline Levels in Electric Field Tissue Interaction, *Indian Journal of Biochemistry and Biophysics*, 33, 531-533. (1996).
11. GÜLER, G., **ATALAY SEYHAN, N.,** ÖZOĞUL, C., ERDOĞAN, D.: Biochemical and Structural Approach to Collagen Synthesis Under Electric Fields, *Gen. Physiol. Biophys.*, 15, 429-440. (1996).

Recent Proceedings

1. AKAY C., CANSEVEN A.G, ERDEM O, **SEYHAN N.** (2007): Effect of intermittent and continuous exposure to electromagnetic field on calcium and magnesium levels in serum, brain, liver and kidney tissues. Abstracts of 44th Congress of the European Societies of Toxicology, Amsterdam, The Netherlands, 7-10 October 2007, S112.
2. OZGUR E., GÜLER G., **SEYHAN N.** Regenerative Effects of (-)-epigallocatechin-gallate Against Hepatic Oxidative Stress Resulted by Mobile Phone Exposure. 11th Mediterranean Conference on Medical and Biological Engineering and Computing, Ljubljana, Slovenia, June 26-30,2007, p 214-217.
3. TOMRUK A., GÜLER G., **SEYHAN N.** The Relation Assessment Between 50 Hz Electric Field Exposure-Induced Protein Carbonyl Levels and The Protective Effect of Green Tea Catechin (EGCG).11th Mediterranean Conference on Medical and Biological Engineering and Computing, Ljubljana, Slovenia, June 26-30,2007, p230-233.
4. OZGUR E., GÜLER G., **SEYHAN N.**, The Role of N-Acetyl Cysteine on Antioxidant Enzyme Levels and Oxidative Stress against Mobile Phone Radiation. International EMF Conference 2007: Electromagnetic Fields, Bioeffects Research, Medical Applications, and Standards Harmonization, Kuala Lumpur, MALAYSIA, 4-6 June 2007.
5. TOMRUK A., GÜLER G., **SEYHAN N.**, N-Acetyl Cysteine(NAC) inhibits ELF Electric Field induced Nitric Oxide production. International EMF Conference 2007: Electromagnetic Fields, Bioeffects Research, Medical Applications, and Standards Harmonization, Kuala Lumpur, Malaysia, 4-6 June 2007.
6. SIRAV ARAL B., **SEYHAN N.**; 900 MHz and 1800 MHz CW EMF alter Blood Brain Barrier (BBB) Permeability of Male Rats, "International EMF Conference 2007 Electromagnetic Fields, Bioeffects Research, Medical Applications, and Standards Harmonization", Kuala Lumpur, MALAYSIA, 4-6 June 2007.
7. SIRAV ARAL B., **SEYHAN N.**; Radio Frequency Radiation (RFR) Effects on Blood Brain Barrier (BBB) of Female Rats, "International EMF Conference 2007 Electromagnetic Fields, Bioeffects Research, Medical Applications, and Standards Harmonization", Kuala Lumpur, MALAYSIA, 4-6 June 2007.