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Noaman A. Eltahawy



Personal information:

Name	Noaman Abd Ellatif Eltahawy	
Date of Birth	December 17, 1956	
Current home Address	Flat no. 43, 7, Project 14, Mostafa El Nahas St., Madinat Nasar, Cairo Egypt	☎: (202)24724680 Mob: (202) 01227839542
Home address	Eltahawya, Blbease, Sharkia, Egypt	☎: (055) 2942466
Current work Address	Radiation Biology Department, National Center for Radiation Research and Technology, 3 Ahmed El Zumor St., 8th Sector, Madint Nasr-P.O.Box:29 Madint Nasr, Cairo, Egypt Postal code 11513	☎: (202) 022748246 Fax: (202) 2749298
E-mails	noamaneltahawy@yahoo.com Noaman.Eltahawy@eaea.org.eg	
Status	Married	

Present Employment:

Title: Professor [Radiobiology]

Department: Radiation Biology

Institution: National Center for Radiation Research and Technology, Atomic Energy Authority, Egypt

Languages:

Arabic (Mother Tongue)

English (Very Good)

Academic Degrees:

Ph. D.: Cairo University, Zoology(Comparative Physiology), 1998

(Role of certain pharmacological drugs in the modification of radiosensitivity of certain mammalian organ activities)

M. Sc.: Zagazig University, Zoology, 1993

(Effect of radiation on the electrical activities of brain in albino rats)

B. Sc.: Zagazig University, Zoology, 1979

Scientific Employment and Academic Responsibility:

National Center for Radiation Research and Technology, Atomic Energy Authority, Egypt:

Emeritus Professor: 17-12-2016

Professor: 24-6-2009

Assistant Professor: 6-6-2004

Lecturer: 31-1-1999

Assistant Lecturer: 12-6-1996

Demonstrator: 14-4-1996

Second Biological Specialist: 19-12-1992

Third Biological Egypt Specialist: 14-7-1981

Training period: 1-1-1980

Misr University for Science and Technology, Faculty of Applied Medical Science, Department of Radiological Imaging Technology Major, 6-October City,

1-6-2014 till now

Misr University for Science and Technology, Faculty of Applied Medical Science, Head of Radiological Imaging Technology Major Department , 6-October City,

1-6-2013 to 1-6-2014

Misr University for Science and Technology, Faculty of Applied Medical Science, Department of Radiological Imaging Technology Major, 6-October City, Egypt

1-10-2011 to 1-10-2012

University of Bologna, Department of physic, National Institute of Nuclear Physic, Bologna, Italy, grant fellowship from ICTP program for training and research in Italian laboratories (TRIL):

1-3-2005 to 30-6-2005

University of Bologna, Department of physic, National Institute of Nuclear Physic, Bologna, Italy grants fellowship from ICTP program for training and research in Italian laboratories (TRIL):

4-5-2003 to 4-5-2004

University of Umm Al Qura, Faculty of Applied Science and Engineering, Department of Applied Biology, Makkah Almukarramah, Saudi Arabia:

Academic Specialist- 18-8 -1982 to 12-8- 1988

Summary of present Research Topics:

The general theme of my current research interests deals with studying the change induced by ionizing radiation exposure and the relation between these changes and the changes in the blood chemistry and the subsequent physiological changes as an experimental symbol of oxidative stress increment, also through studying the relation of ion channels and intracellular structures of the neuron cell with these changes. In our department, we exposed the experimental animals to single or fractionated dose of ionizing radiation, for the liberation of free radicals and derivatives oxygen species like those occurring in biological systems upon exposure to stress. Several core research proposals consist of:

- a) Studying the role of some powerful natural antioxidants or radio protective compound in recovery of radiation induced injury on mammalian intracellular organelles in addition to its implying a differential uptake between normal and malignant tissues;
- b) Examining the role of some powerful radio sensitizer in addition to its differential effect between tumors and normal tissue;
- c) Early assessment for radiation hazards of man-made devices (occupational), natural background radioactive areas or cosmic rays (Radiation Marker).

These proposals may be oriented in the field of non ionizing radiation hazards and electromagnetic field hazards. As well as the general theme of my current research is interest's deals with studying the change induced by ionizing radiation exposure and the shape and structure of proteins where the shape and structure of proteins is the key to its function and for drug design, study of Nanoparticle compound for treatment cancer and study of stem cell for treatment liver damage.

Experiences:

- 1-Recent teaching courses (Radiology& Radiation Protection, Dosimetry, Radiochemistry, Radiopharmacy, Nuclear Medicine Technology, Physiology, Biochemistry and Cell Membrane)
 - 2- Biological effect of ionizing radiation.
 - 3- Biochemical analysis of body fluids, tissues and evaluation of physiological changes in different body organ.
 - 4- Electrophysiological studies in mammals {in vitro (patch clamp technique) and in vivo studies (EEG)}.
 - 5- Separation, purification and identification of biological compound by chromatographic techniques and trace element by atomic absorption spectrometer.
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- 6- Evaluation of biological changes in mammals by using magnetic resonance imaging.
- 7- Intracellular investigations (effect of oxidative stress on the ion channels of the cell membrane and intracellular structure).
- 8- Evaluation of biochemical changes and biophysical changes to environmental pollution and aging.
- 9- Neurophysiological studies in mammals exposed to psychoactive drugs and hormones.
- 10- Histological and histochemical studies in reptiles exposed to seasonal variation.
- 11- Attending training course in radioisotopes and protection from ionizing radiation - 1993.
- 12- Attending training course in computer skills - 1992.
- 13- Delivering lectures and attending workshops and conferences in the scientific fields previously mentioned, under publication.

Undergraduate teaching experience:

- 1- **(June 2013–June 2014) Former Head of Radiological Imaging Technology Department**, Faculty of Applied Medical Science, Misr University for Science and Technology, Department of Radiological Imaging Technology, Egypt, 6-October City
 - 2- **(Oct 2011– Till now) Professor (mandate) at Radiological Imaging Technology Department**, Faculty of Applied Medical Science, Misr University for Science and Technology, Department of Radiological Imaging Technology Egypt, 6-October City, my courses (Radiology and Radiation Protection (RIT 204), Dosimetry & Radiation Therapy (RIT 306), Nuclear Medicine Technology (RIT 402 P), Radiopharmacy (RIT 303) , Radiochemistry(RIT 303 L) and Project)
 - 3- **(May 2003–June 2005) Research Postdoctoral** at University of Bologna, Department of Physic, National Institute of Nuclear Physic, Bologna, Italy grant fellowship from ICTP program for training and research in Italian laboratories (TRIL) Italy, Bologna
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4-(Aug 1982–Aug 1988) Academic Specialist at Umm Al-Qura University,
Faculty of Applied Science and Engineering, Department of Applied Biology
Saudi Arabia · Makkah AlMukarramah

Scientific Publications post Professor: 24-6-2009

Scientific Publications: Noaman Abd Ellatif Eltahawy

- 1-** Helen N. Saada, Renée G. Rezk and **Noaman A. Eltahawy**, Lycopene Protects the Structure of the Small Intestine against Gamma-Radiation-induced Oxidative Stress. *Phytother. Res.* 24: S204-S208(2010), Published online 29 December 2009 in Wiley InterScience, <http://www.ncbi.nlm.nih.gov/pubmed/20041432> **Impact factor = 2.69**
 - 2-** **N.A.Eltahawy**, S.M.Elsonbaty, S.Abunour, W.E. Zahran. Synergistic effect of aluminum and ionizing radiation upon ultrastructure, oxidative stress and apoptotic alterations in Paneth cells of rat intestine. Published online in *Environ Sci Pollut Res* DOI 10.1007/s11356-017-8392-z <http://link.springer.com/article/10.1007%2Fs11356-017-8392-z> **Impact factor = 2.760**
 - 3-** **Noaman A. Eltahawy**, Helen N Saada, , Ahmed S Hammad, Gamma Amino Butyric Acid Attenuates Brain Oxidative Damage Associated with Insulin Alteration in Streptozotocin-Treated Rats, *Ind J Clin Biochem*, DOI 10.1007/s12291-016-0597-2, Received: 29 March 2016 / Accepted: 23 July 2016, <http://link.springer.com/article/10.1007/s12291-016-0597-2?view=classic>. **Impact factor = 0.1**
 - 4-** Nadia M. Abdallah , **Noaman A. Eltahawy**, Eman N. Aly, Eman I. Kandil, Abdelfattah M. Badawi, N. A. Mansour and Hebatallah E. Mohamed, Anticancer and radiosensitization efficacy of nanocomposite *Withania somnifera* extract on mice bearing tumor cells, accepted for inclusion in next issue in *Asian Pacific Journal of Cancer Prevention*
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- (http://www.apocpcontrol.org/page/apjcp_issues.php), 21-3- 2016. **Impact factor = 2.5**
- 5- Abd El Rahman NA, Abd El Hady AM, **Eltahawy N.A.**, Silymarin and Vitamin E modulate 950MHz Electromagnetic Field-induced Oxidative Stress and Hormonal Changes in Male Albino Rats. J Am Sci 2014; 10(9):170-176. (ISSN: 1545-1003, Link: <http://www.jofamericanscience.org>. 23 **Impact factor = 0.6**
- 6- **Eltahawy N. A.**, Aboelnour S and Elsonbaty S, Effectiveness of Punica granatum juice in Ameliorating Oxidative Damage and Ultrastructural Changes in Paneth Cells of Rat Intestine, IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) ISSN: 2278-3008. Volume 4, Issue 2 (Nov. – Dec. 2012), PP 25-31, link: <http://www.iosrjournals.org/iosr-jpbs/pages/v4i2.html> **Impact factor = 1.1**
- 7- AI El Batal, KS Azab, Saada, RG Rezk, and **NA Eltahawy**, Ameliorating effects of yeast glucan with zinc bisglycinate on histological and biochemical changes in γ -irradiated rats Int. J. Agri. and Biol. 10(4) 361-368 (2008), ISSN Online: 1814-9596, link: <http://www.fspublishers.org> **Impact factor = 0.93**
- 8- Amr Mahmoud Abd El-Hady, **Noaman Abdellatif Eltahawy**, The possible protective effect of vitamin E and / or silymarin on rat testes exposed to 950MHz electromagnetic field, Journal of Bioscience and Applied Research, 2015, Vol.1, No.3, PP.97-111, pISSN: 2356-9174, eISSN: 2356-9182 97(WWW.JBSAR.com).
- 9-Abd El-Azime A. Sh, Sherif N.H. and **Eltahawy N. A.**, Efficacy of Aqueous Extract of Saffron (*Crocus sativus* L.)in Modulating Radiation-Induced Brain and Eye Retina Damage in Rats, The Egyptian Journal of Hospital Medicine, Vol., 54:101-108(Jan.2014), DOI:10.12816/0002436, link: <http://egyptianjournal.net78.net/>
- 10- **Noaman Abdellatif Eltahawy**; Said, U.Z .; Kamal, G.M.; EL-Sayed, T.M. and Ibrahim, F.R., Role of Omega-3 Fish Oil on Electrophysiological
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- Variations in Rats Exposed to Sodium Fluoride and/or Gamma Rays, J. Nucl. Tech. Appl. Sci, Vol. 3, No. 4, PP. 221 : 228 (2015), <http://www.esrsaeg.net/1%20New%20Book%20221-228.pdf>.
- 11-** Fatma,A.Eid; Ahkam,M.El-Gendy;Samir,A.Zahkoug; **Noaman, A. Eltahway** and Sawsan,A.El-Shamy, Ameliorative Effect of Two Antioxidants on The Liver of Male Albino Rats Exposed to Electromagnetic Field , The Egyptian Journal of Hospital Medicine (Jan. 2015) Vol. 58, Page 74-93 DOI: 10.12816/0009363 link: <http://egyptianjournal.net78.net/>
- 12-** Fatma,A.Eid; Ahkam,M.El-Gendy;Samir,A.Zahkoug; **Noaman, A. Eltahway** and Sawsan,A.El-Shamy, Physiological and Histological Studies on The Heart of Male Albino Rats Exposed to Electromagnetic Field and The Protective Role of Silymarin and/or Vitamin E The Egyptian Journal of Hospital Medicine (Jan. 2015) Vol. 58, Page 94-108 DOI: 10.12816/0009364 link: <http://egyptianjournal.net78.net/>
- 13-** Said, U.Z .; **Noaman Abdellatif Eltahawy**; Kamal, G.M.; EL-Sayed, T.M. and Ibrahim, F.R., Role of Omega-3 Fish Oil against physiological disturbances in Rats induced by Sodium Fluoride and/or Gamma Rays, J. Nucl. Tech. Appl. Sci, Vol. 3, No. 3, PP. 199 : 210 (2015), <http://www.esrsaeg.net/5%20New%20Book%20199-210.pdf>.
- 14-** Ussama, Z. S., **Noaman Eltahawy**, Elsayed, M. Elsayed, Wafaa, Gh and Amany, A. Elssal., Pomegrante Alleviates Oxidative Damage and Neurotransmitter Alteration in Rats Brain Exposed to Aluminum Chloride and/or Gamma Radiation, J. Rad. Res. Appl. Sci, Vol 6 No 1 pp 71 85 (2012), ISSN: 1687-8507 , <http://inis.iaea.org/search/search.aspx>
- 15-** **Noaman Abdellatif Eltahawy**;Abdallah,N.M.; Abdel Hamid, F. F.; Saada, H.N. & Sayed, R.M., Biochemical Study on the Effect of Aloe vera (Latex and Leaves) as a Dietary Supplement to Rats Exposed to Gamma Radiation and/or Aluminum J. Nucl. Tech. Appl. Sci, Vol. 4, No. 1, PP. 11 : 23 (2016), <http://www.esrsaeg.net/2%20New%20Book%2011-24.pdf>
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- 16-** Mohamed E.M. Zowail, Hanaa F. M. Waer, **Noaman A. Eltahawy**, Eman H. S. Khater and Amr M. Abd El-hady, Curative Effect of Bone Marrow Cells Transplantation and/or Low Dose Gamma Irradiation on Liver Injuries Induced by Carbon Tetrachloride, The Egyptian Journal of Hospital Medicine, Vol., 46:96-114(Jan.2012), ISSN: 1687-2002, link: <http://egyptianjournal.net78.net/>
- 17-** **Noaman Abdellatif Eltahawy**; Said, U.Z .; Kamal, G.M.; EL-Sayed, T.M. and Ibrahim, F.R., Role of Omega-3 Fish Oil on Electrophysiological Variations in Rats Exposed to Sodium Fluoride and/or Gamma Rays, J. Nucl. Tech. Appl. Sci, Vol. 3, No. 4, PP. 221 - 228 (2015), <http://www.esrsaeg.net/5%20New%20Book%20199-210.pdf>.
- 18-** H.N. Saada, **N.A. Eltahawy**, N.Y.S. Morcos, and A.S. Hammad, Gamma Amino Butyric Acid Attenuates Liver and Kidney Damage Associated with Insulin Alteration in γ -Irradiated and Streptozotocin-Treated Rats, Arab J. of Nuclear Sci. and Appl. 41 (1): 183-150 (2016), <http://inis.iaea.org/search/search.aspx>
- 19-** **Noaman A. Eltahawy**, Abd El-Hady AM and Ahmed S Hammad, Gamma amino butyric acid ameliorates jejunal histopathological, cytomorphometric functional alterations and oxidative stress in diabetic rats, under publication.
- 20-** Amr M. Abd El-Hady , Hanan S. Gewefel , Manal A. Badawi and **Noaman A. Eltahawy**, Gamma-aminobutyric acid (GABA) Ameliorates Structure and Function of Small Intestine Against Gamma-rays Exposure Induced Oxidative stress under publication.
- 21-**Shedid ShM, Saada HN, **Eltahawy NA**, Hammad AS; Curative role of pantothenic acid in brain damage of gamma irradiated rats; under publication.
- 22-** **Noaman Abdellatif Eltahawy**; O.M. Sarhan b, A.S. Hammad a, S. Abu-nour, Effects of combined exposure to aluminum chloride and gamma-radiation on histological and ultrastructure of intestinal Paneth cells, Journal
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of Radiation Research and Applied Science(2 0 1 6) 1 -9,
<http://www.sciencedirect.com/science/article/pii/S1687850716300243>

- 23- **N. A. Eltahawy** and U. Z. Said, Effect of aqueous extract of saffron (*Crocus Sativus* L.) against gamma radiation-induced skeletal muscles damage in rats, Egypt. J. Rad. Sci. and Applic., Vol. 22, No. 2, pp. 461-475(2009),
<http://inis.iaea.org/search/search.aspx>
 - 24- **N. A. Eltahawy**, Curcumin attenuates gamma radiation-induced intestinal damage in rats, Egypt. J. Rad. Sci. and Applic., Vol. 22, No. 2, pp. 365-691(2009), <http://inis.iaea.org/search/search.aspx>
 - 25- **N. A. Eltahawy**, N. Hanafi and U. Z. Said, Antitumor and antioxidant activities of actinin in kidney tissue of mouse bearing murine mammary adenocarcinoma and exposed to gamma radiation, Egypt. J. Rad. Sci. and Applic. 21(2): 465-480 (2008), <http://inis.iaea.org/search/search.aspx>
 - 26- **N. A. Eltahawy**, A. S. Nada and R. G. Rezk, Lycopene efficiency in modulating γ -radiation induced physiological and histological disorders in different tissues of rats, Isotope and Rad. Res. 40(2): 331- 345 (2008),
<http://inis.iaea.org/search/search.aspx>
 - 27- **Noaman A. Eltahawy** Conservative and Curative Capacities of Natural Antioxidants for Controlling Disturbances in Neurohormones in Experimental Animals, Review Submitted to Scientific Committee for Biological and Medical Science, Cairo 24-6-2009.
 - 28- **N. A. Eltahawy** and R. G. Rezk Effectiveness of Oregano Oil in Ameliorating Oxidative Damage and Ultrastructure Changes in Brain of Rats. Egypt. J. Rad. Sci. and Applic. 21(2): 465-480 (2008),
<http://inis.iaea.org/search/search.aspx>
 - 29- **N. A. Eltahawy**, The protective Role of Combined Administration of Daidzein and Genistein in Modulating Radiation-Induced Damage in The Mitochondria of Some Tissues in Rats. Egyptian Journal for Radiation
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Science and Application 21(1)47-61(2008),
<http://inis.iaea.org/search/search.aspx>

- 30- **N. A. Eltahawy**, S.F. Salama, and O.M. Ashry, The Modulatory Role of *Vitis vinifera* in Oxidative Stress and Carbohydrate Metabolism of Irradiated Rats., Arab J. of Nuclear Sci. and Appl. 41 (2): 261-269 (2008),
<http://inis.iaea.org/search/search.aspx>
 - 31- **N. A. Eltahawy**, Electrical Behavior of Ion Channels in the Cell Membrane, Accepted as oral presentation in the second Arab conference of Biophysics and Mathematical Modeling, Al-Azhr University, Cairo (21-23/8/2007)
 - 32- **N. A. Eltahawy**, Milestones in the Radiosensitivity of Protein Molecule Accepted as poster presentation in the 6th Synchrotron-light for Experimental Science and applications in the Middle East (SESAME Users), 17-19/11/2007 Amman, Jordan
 - 33- M.I.El-Gohary,A.A.Salama,Kh.M.T.Eraba, **N. Eltahawy** and A.M.El-Rasheedy, Effectiveness of rutin in reducing radiation-induced electroencephalographic changes in rats, Al-Azhar Bull. Sci. 18(2):1-16 (2007)
 - 34- **Eltahawy N. A** and Saada H. N, Milestones in the Radiosensitivity of Protein Molecule Accepted Poster; 6th SESAME user meeting, Jordanian-Amman, November 17-19, (2007).
 - 35- Ashry, O. M., Salama, S. F and **Eltahawy N. A.**, Possible Effect of Pentoxifylline on Oxidative Stress and Certain Metabolic Disorders in Gamma Irradiated Rats Egyptian Journal for Radiation Science and Application 20(1)125-139(2007), <http://inis.iaea.org/search/search.aspx>
 - 36- E. Noaman, Nadia M. Fahmy, **Noaman A. Eltahawy**, Hedayat I.S.1, and S. Z. Mansour, Response of Streptozotocin-Induced Diabetes in Rats Under Oxidative Stress of Intermittent Radiation Exposure to Either Antioxidant Or Insulin Mimic Treatment, Isotope and Rad. Res, 37,7,1841-1858(2005),
<http://inis.iaea.org/search/search.aspx>
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- 37- Ussama, Z. S., Azab, Kh. Sh., **Eltahawy, N. A.** and Soliman, S. M., Oligomeric Proanthocyanidins (OPCs) Modulating Radiation-Induced Oxidative Stress on Functional and Structural Performance of Eye in Male rats, *Isotope and Rad. Res.*, 37,2,395-412(2005), <http://inis.iaea.org/search/search.aspx>
- 38- **Eltahawy, N. A.**: Possible Modulatory Role of pantothenic acid in gamma radiation-induced Oxidative Stress and Metabolic Disorders in Liver and Kidney of Rats. *J. Egypt. Ger. Soc. Zool.* Vol. 51 A: comparative physiology, 99 –110, July (2006)
- 39- **Eltahawy, N. A.** and Bersani, F.: Electrophysiology (general concept-review). Web site of Bologna University, Italy (2005).
- 40- **Eltahawy, N. A.**: Molecular electrical activity of the cell membrane. The Twenty Eight Conference of the Egyptian Society of Histology and Cytology; 30-12-2004, Faculty of Medicine Al-Azhar University Cairo Egypt.
- 41- **Noaman A. Eltahawy** Biochemical changes in mammalian brain cells due to radiation injury and their relation to EEG pattern, Review Submitted to Scientific Committee for Biological and Medical Science, Cairo 6-6-2004.
- 42- **Eltahawy, N. A.**: Radio protector and radio sensitizer in clinical practice. Accepted Poster; ESTRO/Dresden Conference on Advances in Radiation Oncology from 21 to 22/11/2003, Dresden Germany
- 43- **Eltahawy, N. A.**: The Modulatory role of Aloe Vera on Carbohydrate Metabolism in Irradiated Rats. *J. Egypt. Ger. Soc. Zool.* Vol. 42 A: comparative physiology, 1 –11, July (2003)
- 44- Azab, K. S.; **N. A. Eltahawy** and L. A. Anas: Role of Taurine in Attenuation of Oxidative Damages in Irradiated Rats. *Egypt. J. of Bioch.* Vol. 21 No. (1)173 –184, (2003)
- 45- Noaman, E. and **N.A. Eltahawy**: Changes in Certain Blood Micronutrients and Metabolites concentration in Rats following Radiation Exposure and/or Antioxidant treatment. *Arab J. of Nuclear Sc. and Appl* Vol 36 No (2)251 –
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- 259 April (2003), <http://inis.iaea.org/search/search.aspx>
- 46- Eraba, K. T.; **N. A. Eltahawy** and H. N. Saada: Recovery of Radiation Induced Injury of Mammalian Brain by the use of Thiamin Pyrophosphate (Tpp). Al Azhar Bulletin of Science Vol. 13 No. (2)127–136, December (2002)
- 47- Ussama Z. S. S. M. Soliman and **N. A. Eltahawy**, Possible Protective and Curative Role of Thiamin Pyrophosphate against Radiation Induced Biochemical and Histological Changes in Male Albino Rats: Egyptian Journal for Radiation Science and Application 15(2)17-34(2002), <http://inis.iaea.org/search/search.aspx>
- 48- Saada, H. N.; **N. A. Eltahawy** and Abbady, M. M. and Mohamed, A.M.: Role of Soybean Powder as a Dietary Supplement in Modification of Radiation Damage. J. Egypt. Ger. Soc. Zool. Vol. 37 A, 121-129(2002)
- 49- Eraba, K. T. ; **N. A. Eltahawy** and M .I. El Gohary: The Effect Of Pantothenic Acid As A Radio resistance Agent On The EEG Recording From The Occipital Region Of Gamma Irradiated Rat's Brain. Egypt. J. Biophys. Biomed. Eng. Vol. 2, 53-66 (2001)
- 50- Eraba, K. T.; and **N.A. Eltahawy**: Biophyscial Investigation for Radio protective Material from gamma radiation in the Brain Motor Cortex by using the Analysis of EEG pattern, Egypt J. Biophys. Biomed. Engng.Vol. 2, 37-51 (2001)
- 51- Ussama, Z. S. and **N. A. Eltahawy**: Prophylactic Action of Sodium Selenite Against Gamma Radiation in Different Tissues of Rats .Arab J. of Nuclear Sc. And Appl. Vol 34 No (2)251 – 259 July (2001), <http://inis.iaea.org/search/search.aspx>
- 52- Ussama, Z. S.; Saada H. N.; **N. A. Eltahawy** and K. S. Azab: Influence of B-Carotene on some Neurotransmitters and the Responses to Photo stimulation in Gamma Irradiated Rats. Egypt. J. of Bioch. Vol. 18 No. (1)135 –150, (2000)
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- 53-** Ussama, Z. S.; Medhat, M. A. and **N. A. Eltahawy**: Response of Certain Antioxidant Activities and Catecholamines in Irradiated Rats Supplemented with Expressed Oil of Nigella Sativa. Egypt. J. of Bioch. Vol. 17 No. (2) 335-348, (1999)
- 53-** Mohamed, M. A.; Saada, H. N.; Roushdy, H. M.; Khalifa, M. H. and **N. A. Eltahawy**: Combined Effect of Psychoactive Drugs and Gamma Radiation on Blood Monoamines and Dicarboxylic amino acids in Albino Rats. J. Egypt, Ger. Soc. Zool. Vol. 27 (A) comparative physiology 73-83, July (1998)
- 54-** Mohamed, M. A.; Saada, H. N.; Roushdy, H. M. Kalifa, M. H. and **N. A. Eltahawy**: Effect of Amphetamine and Whole Body Gamma Irradiation on Cerebellar Monoamines and Electroencephalogram in Albino Rats., J. Egypt Ger. Soc. Zool. Vol. 27 (A) comparative physiology 9-20, July(1998)
- 55-** Mohamed, M. A.; Saada, H. N.; Roushdy, H. M.; Khalifa, M. H. and **N. A. Eltahawy**: Effect of Phenobarbitone and Whole Body Gamma Irradiation on some Neurotransmitters in Cerebral Cortex and Electroencephalogram in Albino Rats. J. Egypt. Ger. Soc, Zool. Vol. 27 (A) comparative physiology 21-32 July (1998)
- 56-** H. S. El-Kashef; A. S. Al-Zahaby; H. M. Roushdy and **N. A. Eltahawy**: Radiation Induced Disorders in Brain Electrical Activity of Rat and Possible Control through Testosterone and / or Vitamin E Treatment, .J. Egypt. Ger. Zool. Vol. 11 (A) comparative physiology 361-380, April (1993)
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Membership in Professional Scientific Societies:

- 1-The Egyptian Society of pure and Applied Biophysics
 - 2-The Egyptian Society of Nuclear science and applications
 - 3-The Egyptian Society of Biochemistry
 - 4-The Egyptian German Society of Zoology
 - 5-The Egyptian Society of histology and cytology
 - 6-The Egyptian Society of Radiation Science and Application
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Seminars, Summer Schools, Conferences till 2007:

Due to the presence of numerous scientific conferences and seminars and also participating as organizing and chairing in several scientific sessions, the following tables show the list of conferences that I was attended until 2007, and there are some of certificates attached in submitted folder until 2016.

Name	Place	Year
6 th SESAME user meeting	Jordanian-Amman	November 17-19, 2007
Second Arab conference of Biophysics and Mathematical	Cairo-Al-Azhar University	August 21-23, 2007
Annual conference of the Egyptian Society of Biochemistry and Molecular Biology	Cairo	April 19-20, 2007
Arab Atomic Energy meeting(nonionizing radiation and environment)	Cairo	April 23-25, 2007
5 th SESAME user meeting(The scientific horizons of the SESAME project) and workshop on: Synchrotron application in macromolecular	Alexandria Cairo University	November 30-December 2, 2006
Summer school on protein crystallography and drug design	Cairo- Cairo University	May 9- July 4, 2006
The conference of Medical research institute on advances in medical research	Alexandria Alexandria University	November 22-24, 2006
Annual conference of the Egyptian Society of Biochemistry and Molecular Biology	Cairo	April 19-21, 2006
The twenty eighth scientific conference of the Egyptian Society of Histology and Cytology Department of Histology, Faculty of Medicine	Cairo Al-Azhar University	December 2004
Advances in Radiation Oncology: Harnessing modern Biology and New Technology (ESTRO Conference)	Dresden-Germany	November 2003
The twenty fifth scientific conference of the Egyptian Society of Histology and Cytology Department of Histology, Faculty of Medicine	Zagazig Zagazig University	January 2002
Symposium on Biophysics of 21st century Academy of Scientific Research and Technology	Egyptian Academy of Scientific Research and Technology-Cairo	October 2001
International Conference on Laser and applications advances in science, Medicine and Technology	Cairo University-Cairo	April 2001
6- III International Congress Federation of African Societies of Biochemistry and Molecular Biology (FASBMB)	Sonesta Hotel- Cairo	November 2000
International Congress on Molecular Genetics	Cairo International Conference Center (CICC) Cairo	February 1998
Third International Conference of Zoology	Cairo University-Cairo	April 1993

Postgraduate Supervision:

1-Biophysical studies for the role of antioxidant on the electrical activity of rat brain after irradiation: Al Azhar University, department of physics (Ahalam, M. R. (Complete M. Sc.).

2-Mitochondrial production of reactive oxygen species in relation to the aging process, Helwan University: department of biochemistry (Nagwa, M. A. Complete M. Sc.).

3- Studies of some biochemical and electrophysiological changes in irradiated rats, Ain Shams University, Institute of Studies and Environmental Researches (Nada Aly Tayseer Aly Hassib, ongoing M. Sc .research work).

4- Anatomical and structural studies on the effect of bone marrow transplantation and low dose of gamma irradiation on liver regeneration in rats, Cairo University, department of Zoology (Amr Mahmoud Abdel Hady, Complete. Ph.D.)

5- Anticancer and radiosensitization efficacy of nanocomposite *Withania somnifera* extract on mice bearing tumour cells (Hebia Mohamed, complete Ph.D.).

6-Electrophysiological and Biochemical studies for the role of antioxidant on the neurohormone of rat brain after irradiation: Al Azhar University, department of Physics (Fatmia, A.S., complete Ph.D.).

7- Potential Negative Effects Due to Chronic Exposure to Aluminum and Gamma Radiation in Rats and their Mitigation, Helwan University: department of biochemistry (Amany Elassal, complete M. Sc.).

8- Biochemical study on the effect of Aloe vera (Latex and Leaf) as a dietary supplement on rats exposed to gamma radiation and/or aluminum: Ain Shams University, department of Biochemistry (Rehab Magde, complet M. Sc.).

9-Amelioration of the effect of Electromagnetic field in Albino rats by two antioxidants: Al Azhar University, department of Zoology (Sawsan, A.M., complete Ph.D).

10 - Influence of Gamma Aminobutyric Acid on Some Biochemical Alterations in both Diabetic Rats and Irradiated Rats, Ain Shams University, department of Biochemistry (Ahmed Sayed Hammad, complete M. Sc.).

11 - The role of garlic extract (*allium sativum*) against physiological and histological alternations induced by electromagnetic field in the rats:

Al Azhar University, department of Zoology (Esraa Mohamed Kotb Hassan Nasef, Ongoing M. Sc. research work).

12 - The Impact of Indole Compound on Some Biochemical Changes in the Brain of Irradiated Rats: Ain Shams University, department of Biochemistry (Ahmed Sayed Hammad , Ongoing Ph. D. research work).

13 - Influence of Gamma Radiation on the Antimicrobial Activity of Teucrium polium (Ja,adah) Extract and Elucidation the Antimicrobial Mode of Action by Genomic and Proteomic Methodology: Ain Shams University, department of Microbiology (Saif Mamdouh Al-dmour, Ongoing Ph. D. research work.).

Projects:

1-Project for Radiobiological Survey in Eastern Sinai Peninsula, submitted through the scientific committee for approval at the Egyptian Atomic Energy Authority (EAEA).

2-Studies on new materials containing rare earth elements and assess their effectiveness as a treatment in Oncology, submitted through the scientific committee for approval at the Arab atomic energy authority.

3-Biological evaluation of some natural products and nanomaterial for application in brain damage induced by radiation and Alzheimer(under evaluation by STDF Stuff)

4- The impact of 3, 3'Diindolylmethane on Some Biochemical Changes in the brain of Irradiated Rats (under evaluation by STDF Stuff)

Journal Referee

1-Scientific reviewer for many theses

2-Journal of Radiation Research and Applied Sciences

3-Journal of Nuclear Technology in Applied Science (JNTAS)

4-Isotope and Radiation Research

5-Egyptian Journal of Radiation Sciences and Applications

6-Arab Journal of Nuclear Sciences and Applications

Referees (letter of recommendation from a senior scientist):

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2-Prof. F. Bersani: Prof. of Biophysics, Department of Physics, University of Bologna, P. O. Box: 40127 Viale Carlo Berti Pichat n. 6/2 40127 Bologna Italy; Tel: +39-051-209-5122; Fax: +39-051-209-5050; E-mail: bersani@df.unibo.it

3-Prof. M. I. El Gohary: Prof. of Biophysics, Department of Physics, University of Al Azhar, P. O. Box: 11884 Madint Nasr,Cairo, Egypt. Tel.: +202-2618162; Fax: +202-2629356.

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(Scopus)

<https://www.scopus.com/authid/detail.uri?authorId=36672767900>
