



CURRICULUM VITAE

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Personal Information

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Languages: English and Germany

Educational Qualification

B. Sc. In Physics, Faculty of Science, Ain Shams University, 1977
M. Sc. In Physics, Faculty of Science, Suez Canal University, 1984
Ph. D. In Biophysics, Institute of Biophysics, Suez Canal University "Egypt" and Justus Liebig University Giessen, "Germany", 1989

Employment and Affiliations

- * Demonstrator (1977), Physics Department, Faculty of Science, Suez Canal University
- * Assistant Lecturer (1984), Physics Department, Faculty of Science, Suez Canal University
- * Lecturer (1989), Physics Department, Faculty of Science, Suez Canal University
- * Assistant Professor (1997), Physics Department, Faculty of Science, Suez Canal University
- * Professor (2008), Physics Department, Faculty of Science, Suez Canal University
- * Acting Head of Physics Department, Faculty of Science, Suez Canal University from 10/8/2004 to 21/2/2005
- * Acting Head of Physics Department, Faculty of Education, Al-Arish University from 16/5/2005 to 31/7/2006
- * Head of Curriculum and Scientific Programs Committee, Faculty of science, Northern Border University, Saudi Arabia

* Director of Academic Programs Development, Northern Border University, Saudi Arabia

* Vice Dean of Academic Affairs, Faculty of science, Faculty of science, Northern Border University, Saudi Arabia, 2015 – 2017.

* Professor of Physics (Biophysics, Biomaterials, Radiation Physics), Physics Department, Faculty of Science, Suez University, Suez, Egypt Since 31/7/2018

Refereeing and Peer-Reviewing Experience

Acted/Acting as a Reviewer for:

Egyptian Journal of Biophysics

Egyptian Journal of Biophysics and Biomedical Engineering

International Journal of Physical Sciences

International Journal of Biotechnology Research

- Lead Guest Editor of the special issue **Oxidants-Antioxidants, The Biological Balance**, American Journal of Bioscience **2014 – 2015**



Memberships

- Supreme Advisory Commission of “Egypt and Arabs Council of Scientists and Creators”, (C.S.C) since July 2018
- National Committee for Pure and Applied Biophysics”, Scientific Academy of Research, Egypt, 2004-2006
- American Association for Science and Technology (AASCIT)
- Higher Studies Committee of the Northern Border University (NBU)
- Permanent Committee of Curriculum and Scientific Programs of the university (NBU)
- Scientific Committee of the university (NBU)
- Lead Guest Editor of the Special Issue "Oxidants – Antioxidants, The Biological Balance", American Journal of Bioscience, 2014 – 2015
- Editorial Board Member in “European Journal of Clinical and Biomedical Sciences, EJCBS”

Awards

Excellence, Hanover International Fair, Germany, 1987

Shield of Medical Science College, Yemen, 2001

Shields of Science College for Student and Scientific Activities, Saudi Arabia, 2008-2016

Certifications of Efforts Appreciation in Supervising Scientific Researches and Projects from the “Egypt & Arabs Council of Scientists and Creators”, 2018/2019

List of Publications

https://www.researchgate.net/scientific-contributions/65429670_M_Ibrahim

*Title of M.Sc. Thesis:

Study of some physical changes accompanied by biophysical events in living cells, 1984.

*Title of Ph. D. Thesis:

Influence of some substances on oxidation of ascorbic acid in solutions and human eye lens, Fluorescence studies, 1989.

*Published Papers:

[1] **J Strobel, KW Jacobi, W Lohmann, M Ibrahim. Die Bedeutung von Fluoreszenzspektren für die Beurteilung von Linsentrübungen.** 1986, Klin. Mbl. Augenheilk, 189, 2: 141-143

[2] **J Strobel, KW Jacobi, W Lohmann, M Ibrahim. Significance of fluorescence spectra for the evaluation of lens opacities.** 1986, Klin. Mbl. Augenheilk, 189, 8: 141-143

[3] **Lohmann, W. Strobel J Schmehl M., Wickert H., Bernhardt P., Ibrahim M. Neues Diagnoseverfahren fuer den Grauen Star.** Germany, Hannover Messe, 1987. Halle 7Stand B 22.

[4] **W Lohmann, W Schmehl, P Bernhardt, H Wickert, M Ibrahim. Device for measuring native fluorescence of lenses.** J. of Biochemical and Biophysical Methods. 1988, 17: 155-158

[5] **W Lohmann, T Nickel, E Schmidt, M Ibrahim. Native fluorescence of plasma from patients with acute leukemias.** Naturwissenschaften. 1988, 75: 365-367.

- [6] **W Lohmann, C Lohmann, M Ibrahim. Fluorescence Spectra of NADH/NAD, Kynurenine, tryptophan, and tyrosine.** Naturwissenschaften. 1988, 75: 141-142.
- [7] **Kamal G.M., Ibrahim M.A., Elbahy G.S. An analogue modeling study of hippocampal theta rhythm in rabbits.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525. 1992, 8: 95-108.
- [8] **Kamal G.M., Ibrahim M.A. Hussein A.M., Saleh M.A. Instrumental set up for investigation of the hypothalamic thermoregulatory system.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525. 1992, 8: 23-40.
- [9] **Kamal G.M., Ibrahim M.A. Hussein A.M., Saleh M.A. Caloric effects of hypothalamus on rabbit s skin.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525. 1992, 8: 31-39.
- [10] **Ibrahim M.A., Kamal G.M., Hussein A.M. Elgohary M.I. Mathematical approach the hypothalamic thermoregulatory system.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525. 1992, 8: 49-58
- [11] **Elgohary M.I., Ibrahim M.A., Kamal G.M., Elbahy G.S. The neural behavior of hippocampus.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525. 1992, 8: 71-94.
- [12] **Ibrahim M.A. A spectroscopic study on the importance of NADH in eye lenses.** New Egypt. J. of Medicine. 1994, 11 (2): 1064-1066.
- [13] **Ibrahim M.A. The influence of Bilharzia on the blood hemoglobin.** New Egypt. J. of Medicine. 1994, 11 (6): 4360-4364
- [14] **MS Baki, G Kamal, M Ibrahim, M El Gohary. Biophysical Computerized EEG and Topographic Brain Mapping in Diagnosis of Alzheimer Disease.** Progress in Biophysics and Molecular Biology. 12th International Conference of Biophysics, Amsterdam, Netherlands, 1996. Supplement 1; 204 (PH-14). J. ISSN: 0079-6107

- [15] [M El Gohary](#), [M Ibrahim](#), [G Kamal](#), [SH Abdel Motteleb](#). **Biophysical approach to diabetes mellitus**. Progress in Biophysics and Molecular Biology. 12th International Conference of Biophysics, Amsterdam, Netherlands, 1996. Supplement 1; 204 (PH-16). J. ISSN: 0079-6107
- [16] [M Ibrahim](#), [G Kamal](#), [N Saleh](#), [M El Gohary](#). **Spectroscopic Study On Renal Failure**. Progress in Biophysics and Molecular Biology. 12th International Conference of Biophysics, Amsterdam, Netherlands, 1996. Supplement 1; 205 (PH-18). J. ISSN: 0079-6107
- [17] [Ibrahim M.A.](#) and [Saleh N.A.](#). **A biophysical study on renal failure**. Egyptian J. of Biophysics. 1997,
- [19] [M. Ibrahim](#). **New Concept of Cancer. 2nd International Biophysics Conference, "Biophysical Methods for Diagnosis and Treatment"**. Cairo University, 1998.
- [20] [MI Gohary](#), [MA Ibrahim](#), [NA Saleh](#). **H-NMR spectroscopy of haemoglobin molecule in different anaemic illness in Egypt**. Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525, 2002; 3, 1-12.
- [21] [MA. Ibrahim](#). **Effect of 50 Hz, 0.85 mT magnetic field on some biochemical and hematological parameters**. Egyptian J. of Biophysics. 2003, 9(3): 357-375.
- [22] [Ibrahim M. A.](#) ; [Khafagi, I. K.](#) **Effect of extremely low frequency magnetic field on seed germination, seedling growth and secondary metabolites of the medicinal plant Peganum harmala L.** Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525, 2004, 5 (1): 41-57
- [23] [Ibrahim M.](#) and [N. A. Saleh](#): **Study of cooperative binding nature of normal and anemic hemoglobin molecules by autooxidation rate and thermodynamic parameters**. Egyptian J. of Biophysics. 2004, 10(1): 73-88.
- [24] [Ibrahim M.](#) and [N. A. Saleh](#): **Study of some biophysical parameters of hemoglobin in normal and anemic patients**. Egyptian J. of Biophysics. 2004, 10(2): 173-194.
- [25] [Ibrahim M. A.](#) ; [Abdel Nabi, I. M.](#); [El Deghaidy, S. F.](#) **Effect of 50 Hz magnetic field with different intensities on some blood biochemical and hematological parameters**. Egypt. J. Biophys. Biomed. Eng. ISSN: 1110-8525, 2005; 6 (1): 39-55

- [26] **Mohamed A.S.A, Dahab, M.A, Ibrahim M.A, Awad, S.M, Ayoub H.A. New trends of migraine by signal analysis.** Al-Azhar Bull. Sci. 2006, 17: 35-48
- [27] **Ibrahim M. A., Fadel R. A and Noha. A. H. Effect of 50 Hz electric and magnetic fields on fetal development in 20 days Albino rats.** Egyptian J. of Biophysics. 2006, 12(2): 177-199
- [28] **Hoda H. Hussein, Gamal M. Abdel Rahman, Raouf A. R. Fadel, Mahmoud A. K. Mohamed, Influence of Low Frequency Electric and Magnetic Fields on Albino Rat Placentation Following Maternal Exposure During Periods of Embryogenesis.** Suez Canal University Medical Journal. 2006, 9 (2): 135 – 142
- [29] **Hoda H. Hussein, Gamal M. Abdel Rahman, Raouf A. R. Fadel, Mahmoud A. K. Mohamed, Craniofacial Bones Development in Albino Rat Fetuses Following Maternal Exposure to Low Frequency Electric and Magnetic Fields During Periods of Embryogenesis.** Suez Canal University Medical Journal. 2006, 9 (2): 143 – 148
- [30] **El Gohary M. I. ; Mohamed, A. S. A.; Dahab, M., A.; Ibrahim, M. A.; Hassan, N. S.; Ayoub, H.,A. Modeling and simulation of EEG signals for diagnosis of epilepsy.** Egypt. J. Biophys. Biomed. Eng. 2006, 7 (2): 193-209
- [31] **MA Ibrahim, MI El-Gohary, NA Saleh. Spectroscopic study on oxidative reactions of normal and pathogenic hemoglobin molecules.** Rom. J. Biophys. 2008, 18(1): 39-47
- [32] **M Ibrahim, M El-Ashry, E Ali. The influence of 50 Hz magnetic field on liver function.** Rom. Biophys. J. 2008, 18(2): 113-122.
- [33] **MA Ibrahim, MH Ibrahim, HA Ayoub. Diabetes Mellitus As An Oxidative Stress.** Rom. J. Biophysics. 2008, 18(3): 195-208.
- [34] **ElGohary M.A, Mohamed A.S.A, Dahab, M.A, Ibrahim M.A, El Saied A.A, Ayoub H.A. Diagnosis of epilepsy by artificial neural network.** J Biol. Sci. 2008, 8(2): 451–5. [[Google Scholar](#)]
- [35] **ZI Nabil, AA Hussein, MA Kader. Effect of Occupational Exposure To Electromagnetic Flux Induced by High Voltage Electric Field On Human and Experimental Animals.** Egypt. J. Exp. Biol. 2008, 4: 215-222
- [36] **M Ibrahim, O Shalabiea, H Diab Measurement of some radioactive elements in drinking water in Arar city, Saudi Arabia.** American J of Life Sciences. 2014, 2(1): 24-28

[37] **M Ibrahim, G Abdelrahman, A Salem, Abdelhalem Salem and Ghada Abdelkader.** **Effects of 50 Hz Magnetic Field on the Testes and Sperms of Adult Albino Rats.** The Open Conference Proceedings Journal, 3rd BWC, Dubai. 2014, 5: 8-18

**Submitted Papers:

Mahmoud Ibrahim, Abdurrahman Mohmmmed. **Spectroscopic Approach To Hepatitis C Virus.** Submitted to World Journal of Pharmacy and Pharmaceutical Sciences, 2020

***In Process

M. Ibrahim, O. Gamal, R. Ahmed. **Hydroxyapatite as a Dental Biomaterial.**

A. A. Hussein, M. Ibrahim. **Study of the Possible Therapeutic Effect of Bionanomaterials In Cardiovascular Disease Models**

*Supervised M. Sc. And Ph. D. Thesis's

- 1- Spectroscopic Study on Renal Failure (M. Sc, 1995-1997), Faculty of Science, Suez Canal University.
- 2- A Biophysical Approach to Molecular changes During Diabetes (M. Sc, 1998-2001), Faculty of Science, Suez Canal University.
- 3- Biophysical Measurements of Hemoglobin Molecule of Different Types of Anemia (Ph. D, 1998-2002), Faculty of Science, Suez Canal University.
- 4- Application of Intelligence Property on Neural Networks to differentiate between Different Electrical signals (Ph. D, 2004-2006), Faculty of Science, Suez Canal University.
- 5- Biological Effects of Extremely Low Frequency Magnetic field (M. Sc, 2000-2003), Faculty of Science and Technology, University of Science and Technology, Yemen.
- 6- Effect of Extremely low Frequency Magnetic Field on Some Liver Functions (Ph. D, 2003-2007), Faculty of Science and Technology, University of Science and Technology, Yemen.

- 7- Post Natal Effects of 50 Hz Electric and Magnetic Fields on Fetal Development in 20 Days Albino Rats (M. B, 2001-2004), Faculty of **Medicine**, Suez Canal University.
- 8- Post-Natal Bone Development in Albino Rat Pups following Exposure To 50 Hz Electric and Magnetic Fields. M. D, 2003-2006, Faculty of **Medicine**, Suez Canal University.
- 9- Effect of 50 Hz Magnetic Field on the Testes and Sperms of Adult Albino Male Rats (M. Sc. 2004-2006), Faculty of **Medicine**, Suez Canal University.
- 10- Pre-Natal Effects of Electric and Magnetic Fields on Growth and Development of Albino Rat Bones (M. D, 2004-2007), Faculty of **Medicine**, Suez Canal University.
- 11- Influence of Low Frequency Electric and Magnetic Fields Exposure on Albino Rat Placentation (M. D, 2004-2007), Faculty of **Medicine**, Suez Canal University.
- 12- Effects of Ultraviolet B (UV-B) Radiation on the Lens of Albino Rats in Different Ages (M. D, 2006-2009), Faculty of **Medicine**, Suez Canal University.
- 13- Hydroxyapatite as a Dental Biomaterial. Graduation Project of B. Sc. Fulfillment, 2019. Faculty of **Science**, Suez University.
- 14- Spectroscopic Approach to Hepatitis C Virus. Graduation Project of B. Sc. Fulfillment, 2019. Faculty of **Science**, Suez Canal University.
- 15- Distribution of Radionuclides and Environmental Impacts of El-Hommr Area, Southwestern Sinai, Egypt, 2019. Faculty of **Science**, Suez University.
- 16- Study of the Possible Therapeutic Effect of Bionanomaterials In Cardiovascular Diseases Models, M. Sc. Thesis, Faculty of **Science**, Suez University, 2020
- 17- Study of Controlling Parameters Affecting in Radon Gas Concentrations at South Gattar Area, Eastern Desert, Egypt. Ph. D. Thesis, Faculty of **Science**, Suez University, 2020

*Scientific Conferences and Forums

- 1- The International Conference of Biophysics, Trieste, Italy, 1984.
- 2- Hanover Fair on Scientific Equipment's, Hanover, Germany, 1987.
- 3- 12th International Conference of biophysics, Amsterdam, Netherlands, 1996.
- 4- 2nd International Biophysics Conference, Cairo University, Cairo, Egypt. 1998.
- 5- Forum on Ozone Therapy, Al-Azhar University, Cairo Egypt, 2000
- 6- The Arabic Conference of Pure and Applied Biophysics, University of Arabic countries, Cairo, Egypt, 2003, Organized by IUPAB.
- 7- Forum on Radiation and Nuclear Events, Suez Canal University, Ismailia, Egypt, 2003.
- 8- 15th International Conference of Biophysics, Al-Azhar Center of Conferences, Cairo, Egypt, 2005, Organized by IUPAB.
- 9- A biophysical Approach To Nuclear Stations and Their Relation To Population and Environment, Academy of Scientific Research, Cairo, Egypt, 2007.
- 10- 2nd Biotechnology World Congress, Dubai, Arab Emirates, 2013.
- 11- 3rd Biotechnology World Congress, Dubai, Arab Emirates, 2014.

Citations of Some Published Papers

1- [PDF] [academia.edu](#)

[PDF] Spectroscopic study on oxidative reactions of normal and pathogenic hemoglobin molecules

[MA Ibrahim](#), MI El-Gohary, NA Saleh... - Romanian Journal ..., 2008 - [academia.edu](#)

Cited by 22 Related articles All 6 versions

2- [PDF] [rjb.ro](#)

[PDF] The influence of 50 Hz magnetic field on liver function

[M Ibrahim](#), M El-Ashry, E Ali - Romanian J. Biophys, 2008 - [rjb.ro](#)

Cited by 21 Related articles All 3 versions

3- [PDF] [rjb.ro](#)

[PDF] DIABETES MELLITUS AS AN OXIDATIVE STRESS

[MA Ibrahim](#), MH Ibrahim, HA Ayoub - Rom. J. Biophys, 2008 - [rjb.ro](#)

Cited by 3 Related articles All 2 versions

4- [PDF] Measurement of some radioactive elements in drinking water in Arar city, Saudi Arabia

[M Ibrahim](#), O Shalabiea, H Diab - ... journal of life ..., 2014 - [article.sciencepublishinggroup.org](#)

Cited by 13 Related articles All 3 versions [Vi](#)

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5- [Effects of 50 Hz Magnetic Field on the Testes and Sperms of Adult Albino Rats](#)

[M Ibrahim](#), G Abdelrahman, A Salem... - The Open ..., 2014 - [benthamopen.com](#)

Cited by 5 Related articles

The Open Conference Proceedings Journal, 2014, 5: 8-18

Mahmoud Ibrahim, Gamal Abdelrahman, Abdelhaliem Salem, Ghada Abdelkader

Northern Border University, Arar, Saudi Arabia.

Electronic publication date 5/9/2014

[DOI: [10.2174/2210289201405030008](#)]

6- [Effect of extremely low frequency magnetic field on seed germination, seedling growth and secondary metabolites of the medicinal plant Peganum harmala L.](#)

Egypt. J. Biophys. Biomed. Eng. 2004; 5 (1): 41-57

[Ibrahim M. A.](#) ; [Khafagi, I. K.](#)

[Egyptian Journal of Biophysics and Biomedical Engineering](#)

Journal Country: Egypt

ISSN: 1110-8525 ISSN E: 2357-0911 Cited by 3 Related articles All 2 versions

7- [CITATION] Effect of 50 Hz, 0.85 mT magnetic field on some biochemical and hematological parameters

[MA IBRAHIM](#) - Egyptian J. of Biophysics, 2003

[Cited by 2 Related articles](#)

8- [Die Bedeutung von Fluoreszenzspektren für die Beurteilung von Linsentrübungen](#)

J Strobel, KW Jacobi, W Lohmann, [M Ibrahim](#) - Klinische ..., 1986 -

... **Augenheilk.** **189** (1986) 141 Kim. **Mbl. Augenheilk.** **189** (1986) **141—143** 1986

[Cited by 5 Related articles](#) [All 3 versions](#)

9- [CITATION] [Fluorescence spectra of NADH/NAD, kynurenine, tryptophan, and tyrosine](#)

W Lohmann, C Lohmann, [M Ibrahim](#) - **Naturwissenschaften**, **1988** -

[Cited by 18 Related articles](#) [All 6 versions](#)

10- [PDF] [Native fluorescence of plasma from patients with acute leukemias](#)

W Lohmann, T Nickel, E Schmidt, [M Ibrahim](#) - **Naturwissenschaften**, 1988 - Springer

[Cited by 2 Related articles](#) [All 7 versions](#)

11- [CITATION] [Device for measuring native fluorescence of lenses](#)

W Lohmann, W Schmehl, P Bernhardt, H Wickert, [M Ibrahim](#) - **Journal of Biochemical ...**, 1988 - Elsevier

[Cited by 16 Related articles](#) [All 2 versions](#)

h-index and Citations of

[M Ibrahim's research while affiliated with Justus-Liebig-Universität Gießen, Germany](#)

https://www.researchgate.net/scientific-contributions/65429670_M_Ibrahim

<https://www.mendeley.com/authors/57199802336/>

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Publications

- Device for measuring native fluorescence of lenses

- [Lohmann W](#)
- [Schmehl W](#)
- [Ibrahim M](#)

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Journal of Biochemical and Biophysical Methods (1988)

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- Fluorescence spectra of NADH/NAD, kynurenine, tryptophan, and tyrosine

- [Lohmann W](#)
- [Lohmann C](#)
- [Ibrahim M](#)

Naturwissenschaften (1988)

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- Native fluorescence of plasma from patients with acute leukemias

- [Lohmann W](#)
- [Nickel T](#)
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