

Amal El awady's C.V

Personal data:

Name : Amal Elawady Ibrahim

Date of birth : 1/2/1964

Place of Birth : Eldakahlya

Nationality : Egyptian

Scientific position: Professor
Biophysics and laser science unit
Research Institute of Ophthalmology

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Qualification details:

***Ph.D of science (1999).*

***Ms.C of science (1991).*

***Bs.C of science (1985).*

Past Scientific position

- ❖ *Assistant prof. Biophysics and laser science unit – Basic Science Department- Research Institute of Ophthalmology (2012–2019)*
- ❖ *Researcher – Biophysics and laser science unit – Basic Science Department- Research Institute of Ophthalmology (2000– 2012)*
- ❖ *Assistant lecturer- Biophysics and laser science unit – Basic Science Department- Research Institute of Ophthalmology (1992– 2000)*
- ❖ *Assistant researcher- Biophysics and laser science unit – Basic Science Department- Research Institute of Ophthalmology (1987 – 1992)*

Professional Memberships

- 1) *Egyptian Society of Biophysics (A member of the European Biophysical Societies)*
- 2) *Egyptian Society of Pure and Applied Biophysics (A member of the IUPAB)*
- 3) *Egyptian Society of Medical Physics*
- 4) *Arab Society for Medical Research*

Conferences

- ❖ *Attendance and active participation in the 13Th International Conference of the Research Institute of Ophthalmology at Hilton Heliopolis. Cairo 23 – 25 Jan. 2019.*

- ❖ *Attendance and active participation in the 12Th International Conference of the Research Institute of Ophthalmology at Fairmont Heliopolis. Cairo 24 – 26 Jan. 2018.*
- ❖ *Attendance and active participation in the 11Th International Conference of the Research Institute of Ophthalmology at Fairmont Heliopolis. Cairo 2 – 3 Jan. 2017.*
- ❖ *Attendance and active participation in Third Arab Conference on Biophysics “Biophysics in Medicine and Environment “at Academy of Scientific & Technology. 27 – 29 Sep. 2016.*
- ❖ *Attendance and active participation in the 10th International RIO Meeting “ophthalmology in focus at “Semir amis Intercontinental. Cairo 20 – 22 Jan. 2016.*
- ❖ *Attendance and active participation in the IVth International RIO Meeting “A Global Focus on Ophthalmology Today” at Semiramis Intercontinental. Cairo 14 – 16 Jan. 2015.*
- ❖ *Attendance and active participation in the Egyptian Family Healthy & Nutrition Symposium On the honor of The 12th Annual Congress of Medical Sciences NRC. 17th Dec.2014.*
- ❖ *Attendance and active participation in The 12th Annual Congress of Medical Sciences “Medical Breakthrough Technologies towards a Healthy Community” NRC, Giza 17 -18 Dec., 2014.*
- ❖ *Attendance and active participation in The VIIIth International RIO Meeting at Fairmont Heliopolis. Cairo 15 – 17 Jan. 2014.*
- ❖ *Attendance in Updates on Infant and Child Nutrition in Egypt On the honor of The 11th Annual Congress of Medical sciences NRC. Cairo 17-19 Dec. 2013.*
- ❖ *Attendance and active participation in The 11th Annual Congress of Medical sciences “Medical Research between Theory & Application: Challenges and Innovations “NRC. Cairo 17-19 Dec. 2013.*
- ❖ *The 10th Annual Congress of Medical sciences “Medical Research towards Healthy Society” NRC. Cairo 14-16 Jan. 2013.*

- ❖ *Attendance and active participation in the VII International Meeting – Retina Summit Fairmont Heliopolis. Cairo 3 – 4 Jan. 2013*

Training courses

- ❖ *Training course of “Use of ELISA test in the diagnosis of viral and bacterial diseases” Agricultural Research Center, Animal Reproduction Research Institute, Giza. 15-19 November, 2015*
- ❖ *A symposium of “Egyptian Family Health & Nutrition” National Research Center, 17th December, 2014.*
- ❖ *Training course of “Updates on Infant and Child Nutrition in Egypt” National Research Center, 17th December, 2013.*
- ❖ *Parasitology Training course of “Parasitic diseases affecting the heart in childhood” Research Institute of Ophthalmology, Giza. 8 -10 January, 2013.*
- ❖ *Parasitology Training course of “Tropical Parasitic Lung Diseases” Research Institute of Ophthalmology, Giza. 5-7 March, 2013.*
- ❖ *The learning course of “Basic Knowledge of molecular biology” Research Institute of Ophthalmology, Giza. 6-22 May 2012.*

Workshops and Symposium

- ❖ *A symposium of the Egyptian Society of Biophysics in*
 - 1) *Molecular dynamic simulation for drug design.*

2) *Protein structure prediction. Al-Azhar University. Cairo, Egypt. 17th April ,2018.*

❖ *A symposium of the Egyptian Society of Biophysics in*

1) Review on molecular modeling.

2) Biosensor based on Zinc Oxide semiconductor. Al-Azhar University. Cairo, Egypt. 28th December ,2016.

❖ *A symposium of the Egyptian Society of Biophysics in*

An overview of biomaterials and their medical applications. Al-Azhar University. Cairo, Egypt. 26th October ,2016.

❖ *A symposium of the Egyptian Society of Biophysics in “Recent trends in Biophysics” Al-Azhar University. Cairo, Egypt. 10th September,2014.*

❖ *A workshop of the Egyptian Society of “Recent trends in the use of alternative biomaterials” Al-Azhar University. Cairo, Egypt. 27 November, 2013.*

❖ *A workshop of the Egyptian Society of “Stem cells applications in tissue engineering” Al-Azhar University. Cairo, Egypt. 25 September, 2013.*

❖ *A workshop of “Some recent trends in pure and applied biophysics” Al-Azhar University. Cairo, Egypt. 22 May, 2013.*

❖ *A workshop of the Egyptian Society of Pure and Applied Biophysics, Al-Azhar University, Cairo, Egypt.30 November to 28 December, 2011.*

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Evaluation of Thesis

Student Name	Thesis Title	University	Remarks
<i>Naglaa Mohamed Samir</i>	<i>Protective Role of grape seed extract against the effect of blue light on retinal rhodopsin</i>	<i>Ein Shams</i>	<i>MSC</i>
<i>Shaimaa Mohamed Mohamed Mahmoud Shalaby</i>	<i>Studying The Potential Environmental Bio Hazards of H₂S Gas Pollutant On The Molecular Of Ocular Tissue</i>	<i>Azhar</i>	<i>MSC</i>
<i>Rawda Fadel Abu EL Fotouh Hassan Rashed</i>	<i>Study of biophysical properties of retina associated with anti-cancer drugs in the presence of antioxidant</i>	<i>Helwan</i>	<i>MSC</i>

Attendance, organized and participate in the scientific day of the Biophysics and Laser Science Unit, Research Institute of Ophthalmology. 25 May 2016.

Lecture title	Lecturer
Electroretinogram (ERG)	Dr. Amal Elawady Speaker

Attendance, organized and active participates in the scientific day of the Biophysics and Laser Science Unit, Research Institute of Ophthalmology. 16 December 2012.

Lecture title	Lecturer
Ocular phototoxicity	Dr. Amal El-Awady Speaker

Laboratory experience fields

For Special Nature Unity, the following techniques applied

- ❖ *Manufacture of Ag-Ag Cl electrodes*
- ❖ *Measurement of electroretinogram of eye (ERG)*
- ❖ *Manufacture of glass micro electrodes*
- ❖ *Filling of glass micro electrodes with 3M KCl*
- ❖ *Measurement of internal electrical activity of different layers of retina*
- ❖ *Measurement of electrical impedance of the eye*
- ❖ *Electric Conductivity*
- ❖ *Viscosity*

Evaluation of International articles

<i>Name of Magazine</i>	<i>Name of the Article</i>	<i>Year</i>
<i>Egyptian Journal of biomedical engineering and biophysics</i>	<i>Molecular structure changes of rats' retina after sodium iodide injection and the effect of taurine</i>	<i>2018</i>

<i>Cutaneous and Ocular Toxicology (Impact factor 0.888)</i>	<i>Evaluation of emulsified silicone oil with spectral domain-optical coherence tomography and fluorescein angiography</i>	2019
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List of publication

- 1) *The combined effect of photobiomodulation therapy and Chia seeds supplementation for the treatment of diabetic retinopathy. Salwa Abd El Kawi, **Amal El Awady Ibrahim**, Dina Fouad Ghoneim, Aziza Ahmed Hassan, Maha Sabry ABD El Daim. Research Journal of the Arab Society for Medical Research. Journal of The Arab Society for Medical Research, 2019; 14 (2): 130-139*
- 2 *Comparative study between lutein and its liposomal form on cisplatin- induced retinal injury in rabbits . **Amal E. Ibrahim**, Medhat W. Shafaa, Mahmoud H. Khedr and Rawda F. Rashed . Cutaneous and Ocular Toxicology 2019; May 1:1-7.*
- 3) *Electroretinogram as an early detection of chloroquine retinal toxicity in pigmented rabbits. **Amal Elawady Ibrahim**, Eman Saad Elabrak , Mervat Ahmed Ali Journal of The Arab Society for Medical Research, 2019; 14 (1) : 1-6*
- 4) *The possible link between atorvastatin and cataract in rats: An experimental study. Eman Saad, Mervat Ahmed ,**Amal Elawady** . Research Journal of Medical Sciences 2018 ;12(1): 35- 40*
- 5) *Biophysical study regarding the effect of hydrogen sulfide on molecular structure and DNA of mammalian cornea. **Amal E Ibrahim**, Sahar M. Awad,*

Shimaa. M. Elshibly, Gehan M. Kamal International Journal of Engineering & Technology . 2018 ;7(4): 2789-2794

6) Effect of Red, Yellow and White Light Emitting Diode (LED) on Rat's Retina International Journal of Scientific Research in Science, Engineering and Technology M. I. EL Gohary¹, M.M. Gamal, **A. E. Ibrahim**, M. A. Abu Ghazala .

7) Effect of Blue and Green Light Emitting Diode (LED) on Rat's Retina. M.I. EL Gohary , **A.E. Ibrahim**, T.M. EL Sayed, M.M. Gamal , and M.A. Abu Ghazala. Egyptian Journal of Biomedical Engineering and Biophysics 2017 ; 18: 56-66

8) Apoptosis and electroretinogram after intravitreal injection of methotrexate in an experimental rabbit model. Eman Aly and **Amal Ebrahim**. General Physiology and Biophysics 2016; 35: 231–236 .

9) Protective Role of Grape Seed Extract Against the Effect of Blue Light on the Retina. M.G. Mona, **A.I. El-awady**, M.S. Talaat , O. Desouky, N.S. ElHansi . Romanian Journal Biophysics.2014; 24 (4): 255–267.

10) Effectiveness of selenium on acrylamide toxicity to retina. Mervat Ahmed Aly ,Eman Mohamed Aly , **Amal El awady Ibrahim**. International Journal of Ophthalmology 2014; 7(4): 614-620

11) Alleviation of cisplatin-induced retinal toxicity by encapsulation into liposomes in the absence or presence of ginkgo biloba. **Elawady A Ibrahim**, Medhat W. Ismail, Hossam S. Kareem. Journal of American Science, 2011;7(10).

12) Liquefaction of the Vitreous Humor floaters is a Risk Factor for Lens Opacity and Retinal Dysfunction. Abdelkawi SA and **Elawadi A I**. Journal of American Science, 2011;7(9).

13) Neuroprotective Effects of Grape Seeds against Photo-Chemical Damage– Induced Retinal Cell Death. **Elawady A Ibrahim** and El-hansi N Mohamed.

14) Effect of Methanol intoxication on the Function of Retina of Rabbit. Alaa El-Din A. Gawad and Amal E. Ibrahim. Journal of American Science, 2011;7(6)

15) **A. Elawady** and M. Ahmed Ali (2005): "Study of toxic effect of lead on retina". Egypt. J. Biophys. Biomed. engng. vol. 6, No.1, PP. 13-23.

16) **A. Elawady** and M. Ahmed Ali (2004):" The effect of lead on ERG components and calcium contents in adults rats". Egypt. J. of biophysics vol.10, No.1 (101-110).

17) Hisham G.Ibrahim, **A. Elawady** and Laila R. Kamal(2003):"Clinical, electrophysiological and histological evaluation of retinal changes secondary yag laser exposure on experimental study". Kasr El Aini medical Journal vol. 9, jpo.3, May.

18) El Refaei F. M., Ramal L. M., Talaat M. S., Ali F. M. and **A. Elawady** (2002): "Functional and structural study of the rabbit's retina treated with Beta particles". Bull. Ophthalmology Soc. Egypt, as (4): 577-587.

19) El Refaei F. M., **A. Elawady**, Talaat M.S. and Ali F. M. (2000): "Retinal Intracellular Records for the rabbits after treatment with Beta-particles". Bull. Ophthalmology Soc. Egypt, 93(4):863-874.

20) Talaat M. S., El Refaei F. M. and **A. Elawady** (1999):"Elctroretinographic changes associated with Beta-irradiation of the eye using pterygium exposure conditions". Egypt J of Biophysics 5(1):153-172.

21) Ali F. M., A. S. Monem, El Refaei F. M., Morris, H. Marie, M. Gaber F. G. and **A. Elawady** (1992):"Effect of very small doses of radiation on biological membranes ".Eleventh School on biophysics of membrane transport part I,71-107(Poland).

22) Ali F. M., El Refaei F. M., Tallat M. S., El Gammal M. and **A. Elawady** (1991):"Injuries induced by very low doses of fast neutrons to the eye ".The first Arab conference on Med. biophysics Cairo university. 15-17 Jan, 124-**137**.
