



## Curriculum Vitae

- **Name:** Doha El-Sayed Hamed Ellakwa
- **Title:** Professor
- **Department:** Biochemistry
- **E-mail:** doha.elsayed@su.edu.eg

### A) Academic Qualifications:

- Bachelor's Degree in **Biochemistry**      University: Al-Azhar      Year: 2000
- Masters Degree in **Biochemistry**      University: Al-Azhar      Year: 2008
- PhD in **Biochemistry**      University: Al-Azhar      Year: 2012

### Other Qualifications:

Clinical Scholar, Egypt Clinical Scholar Research Training (CSRT), Harvard Medical School (2020-BC).

Post-doctoral fellowship in Kumamoto University, Japan, EJEP (February 2019).

### B) Academic promotions :

- Assistant Lecturer,      Date: 2009
- Lecturer,      Date: 2012
- Assistant Professor,      Date: 2018
- Professor      Date: 2023

### **C) Scientific Merit:**

- Google Scholar Link: <https://scholar.google.com/citations?user=vHGZ71YAAAAJ&hl=en&oi=ao>

Scopes ID: 56061091500

Citations:221

h-index: 9

i10-index: 9

Orcid –N <https://orcid.org/my-orcid?orcid=0000-0003-4824-3485>

### **Academic Administrative Experiences**

Professor in Biochemistry, Faculty of Pharmacy, Sinai University (From 1 November 2020 till now).

### **E) Scientific Activities**

#### **1: Membership of Professional Organizations and Scientific Societies:**

Member of the Egyptian Society of Biochemistry.

An Editorial Board member in CPQ Cancer Journal,  
<https://www.cientperiodique.com/journal/editorboard/cancer>.

An Associate Editor in PSM Veterinary Research,  
[https://journals.psmpublishers.org/index.php/vetres/about/editorial Team](https://journals.psmpublishers.org/index.php/vetres/about/editorialTeam).

An Associate Editor in PSM International Journal of Molecular Microbiology.  
<https://journals.psmpublishers.org/index.php/ijmm/about/editorialTeam>

Associate Alumni, Harvard Medical School (Joined 2021).

I am the Head of the Community Service Committee in the faculty of Pharmacy.

#### **2: Training Courses/workshops:**

A training course entitled The Institutional Self-Evaluation Course for Higher Education Institutions: The National Authority for Quality Assurance and Accreditation of Education, which was held at the Faculty Members Club in Al-Azhar from 21-25 March 2010.

A training course entitled Learning Outcomes Course and Curriculum Maps for Higher Education Institutions - The National Authority for Quality Assurance and Accreditation of

Education was held at the Faculty Members Club in Al-Azhar from March 28 to April 1, 2010.

A training course entitled The External Review Course for Higher Education Institutions - The National Authority for Quality Assurance and Accreditation of Education and was held at the Faculty Members Club in Al-Azhar from 11-15 April 2010.

A training course entitled Strategic Planning for Higher Education Institutions The National Authority for Quality Assurance and Accreditation of Education and was held at the Faculty Members Club in Al-Azhar from 18-19 April 2010.

A training course entitled: "Preparing the Self-Study for Higher Education Institutions" - Al-Azhar Center for Training and Development, 26-28/1/2014.

A training course entitled Effective Presentation Skills - Al-Azhar Center for Training and Development, 29-30/1/2014.

A training course entitled: "Techniques of Designing and Preparing Scientific Research" - Al-Azhar Center for Training and Development 2-3/2/2014.

A training course entitled Examination Systems and Student Assessment Al-Azhar Center for Training and Development, 4-5/2/2014.

A training course entitled Curriculum Maps and Course Descriptions - Al-Azhar Center for Training and Development, 9-11/2/2014.

A training course entitled Effective Time Management and Work Stress - Al-Azhar Center for Training and Development, from 17-18 November 2018.

A training course entitled Crisis and Disaster Management - Al-Azhar Center for Training and Development, from 4-5 February 2019.

A training course entitled Strategic Planning for Colleges and Institutes of Higher Education - Al-Azhar Center for Training and Development, from 8-9 September 2019.

A training course entitled Modern Trends in the Development of University Education - Al-Azhar Center for Training and Development, from 10-11 February 2020.

A training course entitled Development of Administrative and Legal Skills - Al-Azhar Center for Training and Development, from 17-18 February 2020.

### 3: Conferences, Seminars and Workshops:

The 9<sup>th</sup> National Conference of Biochemistry and Molecular Biology & their Role in Development and Environment. March 4-6, 2012.

Annual Scientific conference of The Egyptian Society of Biochemistry and Molecular Biology (ESBMB) in collaboration with the Egyptian Society of Tumor Markers Oncology (ESTMO) on "Recent Advances in Biochemistry & Molecular Biology". Ain Shams University Guest House, Cairo, Egypt. 19-20 April 2012.

The 19<sup>th</sup> Conference of the Egyptian Society for Medical Microbiology (ESMM), in association with Microbiology Department, Faculty of Medicine, Cairo University "Molecular Approaches to Medical Microbiology in Egypt. Grand Nile Tower, Garden City. 18 May 2013.

As poster presentation "**Role of Serum Osteopontin Level as a Diagnostic Biomarker for Early Hepatocellular Carcinoma**". The 58<sup>th</sup> Scientific Congress of ESCC "International Meeting" of the Egyptian Society of Clinical Chemistry. The Main Theme (Laboratory Medicine & Genomics Update). Marriott Hotel, Zamalek, Cairo, Egypt. 27-28 November 2013.

The 14<sup>th</sup> Annual Conference of the Egyptian Society of Internal Medicine (ESIM). Nile Tower Hotel, 27 February 2014.

The Annual Scientific Conference of The Egyptian Society of Biochemistry and Molecular Biology (ESBMB) in collaboration with the Egyptian Society of Tumor Markers Oncology (ESTMO) on "Molecular Biology & Malignancy Update". Held on May 1-2, 2014 at Guest House- Ain Shams University, Cairo, Egypt.

The poster presentation "**INTERLEUKIN 28B AS A PREDICTOR OF SUSTAINED VIROLOGICAL RESPONSE IN PATIENTS WITH CHRONIC HEPATITIS C VIRUS INFECTION**", presented in the activity of the 11th National Conference of Egyptian National Committee for Biochemistry and Molecular Biology (ECBMB) entitled "Disease Diagnosis & Health Care". Held on 30 March until 1 April 2014 at Guest House- Ain Shams University, Cairo, Egypt.

The poster presentation "**D-Dimer levels in type 2 diabetic patients with nephropathy**", was presented in the activity of the First International Conference for Arab Pharmacists in the Faculty of Pharmacy (Ain Shams University) entitled "New Trends in Drug Discovery, Development, and Pharmacy Practice". Held on 14-16 October 2014 at Guest House- Ain Shams University, Cairo, Egypt.

As poster presentation "**Detection of BCL2 polymorphism in a patient with Hepatocellular carcinoma**", presented in the activity of the 12<sup>th</sup> National Conference of Egyptian National Committee for Biochemistry and Molecular Biology (ECBMB) entitled "Role of Biochemistry and Molecular Biology in Drug Discovery and Disease Diagnosis". Held on March 15-17, 2015 at Guest House- Ain Shams University, Cairo, Egypt. Having an award for best poster.

As poster presentation "**Detection of BCL2 polymorphism in a patient with Hepatocellular carcinoma**", presented in the activity of World Academy of Science, Engineering and Technology (WASET) conference, Saudi Arabia 2015.

The poster presentation, "**Assessment of Monocyte Chemoattractant Protein- 1 (MCP-1) in Type 2 Diabetic Patients with Nephropathy**", was presented in the activity of the Pharma Middle East Conference. Held on November

02-04, 2015 at Dubai, UAE. <https://www.omicsonline.org/proceedings/assessment-of-monocyte-chemoattractant-protein1-mcp1-in-type-2-diabetic-patients-with-nephropathy-37482.html>.

As poster presentation "**Association of Serum Neopterin Level with HCV Infection among Egyptian Blood Donors**", presented in the activity of the 13<sup>th</sup> National Conference of Egyptian National Committee for Biochemistry and Molecular Biology (ENBMB). "Advances in Biochemistry and Molecular Biology in Diagnosis and treatment". Held on March 23-24, 2016 at the faculty of pharmacy – October 6 University.

Arab African Pharma Conference of Egyptian Pharmacists Syndicate, 2016.

The poster presentation "**Role of Myeloperoxidase in Hepatitis C Virus related Hepatocellular Carcinoma**" was presented in the activity of The Annual Scientific Conference of The Egyptian Society of Biochemistry and Molecular Biology (ESBMB) in collaboration with the Egyptian Society of Tumor Markers Oncology (ESTMO) entitled "Recent Advances in Biochemistry, Molecular Biology & Tumor Markers". Held on May 5-6, 2016 at Guest House- Ain Shams University, Cairo, Egypt.

The poster presentation "**Early Detection of Urinary Bladder Cancer by Assessment of Urine Protein Markers (APOA1 AND APOA2 PROTEINS)**" was presented in the activity of the American Urologic Association. Held in April 2017 in the USA. [https://www.jurology.com/article/S0022-5347\(17\)33478-X/abstract](https://www.jurology.com/article/S0022-5347(17)33478-X/abstract).

The second International Scientific Conference was held under the title "Our resources, the lives of our children", organised by Al-Azhar University on 11-13 March 2018.

International conference/Egypt-Japan Multidisciplinary Science Forum, "Innovation and New challenges" at Al-Azhar University, Cairo, the 24th March 2018, organised by JSPS.

As poster presentation" **Design, Synthesis and Biological Evaluation of Pentacyclic Triterpene Derivatives: Optimization of Anti-ABL Kinase Activity**" presented in the activity of The 16th International Conference of Biochemistry & Molecular Biology .Held on September 14-15, 2019 at The American University in Cairo, New Cairo.

The 2nd Arab Association of Genetic Research Conference at Nile Ritz Carlton Cairo 26-27 Nov 2019.

As poster presentation" **Design, Synthesis and Biological Evaluation of Pentacyclic Triterpene Derivatives: Optimization of Anti-ABL Kinase Activity**" presented in the activity of The 37th Medicinal Chemistry Symposium 2019. Held on November 27-29, 2019, at Icho "Gingko" Hall{ Hachioji city Art& cultural Hall}, Tokyo, Japan.

The First International Joint Conference of Al-Azhar Faculties of Medicine in Cairo At Al-Azhar Conference Center, Nasr City- Cairo on 30th Nov.- 02<sup>nd</sup> Dec. 2019.

Recent Trends in Cancer Biology and Treatments" Symposium organised by the National Committee for Biochemistry and Molecular Biology (ENBMB). Held on 15th of February 2020 at Children's Cancer Hospital 57375 Egypt.

A poster presentation **and MMP-9 as prognostic markers for early detection of urinary bladder cancer were** presented in the activity of "The First International Pharmaceutical and Medical Sciences Conference: A Response to COVID-19".Held online September 1-3, 2020, faculty of Pharmacy, Al-Azhar University, Egypt.

The poster presentation "**Identifying of HBV DNA in liver tissues of chronic hepatitis and hepatocellular carcinoma to study the Hepatitis B virus silent infection in Egyptian patients**" presented in the activity of " First International Conference on Pharmaceutical and Bio-medical Research: "New Horizons in Pharmaceutical Sciences". Held online March20-21 2022, at Faculty of Pharmacy, Sinai University, Egypt.

11<sup>th</sup> Misr Internal Medicine Association International Conference Diabetes & Endocrine: Taking A Holistic Approach (MIMA2022) on 30 June - 1 July 2022 at Marriott El Zamalek Hotel-Cairo.

The oral presentation” **SUMO pathway, blood coagulation and oxidative stress in SARS-CoV-2 infection** presented in the activity of Workshop “Emerging infectious diseases: biology, prevention and treatment”, which was held from November 7-11, 2022, by Instituto Butantan in cooperation with the ICGEB, University of São Paulo and The São Paulo Research Foundation, FAPESP, Brazil. The main objective of the workshop is to gather experts in the field of infectious diseases for a broad discussion of state-of-the-art and the solutions that basic and applied research shows for improved diagnosis and therapy.

#### **4: Teaching Scopes:**

Teaching and curriculum development. Teaching activities include: Classroom teaching (lectures, practice classes, laboratory work, seminars), Consultation and advising of students; Organization and supervision of students’ practice learning; supervision of Master’s and PhD students), Monitoring and assessing the work of students (assessing current work, administering pass/fail evaluations and exams, reviewing practice training reports, seminar papers and graduation theses, reviewing Master’s and PhD theses, etc.). Curriculum development includes Preparation for classes, Creation of study and teaching aids; selection of appropriate textbooks and, where so agreed, creation of the same, Participation in syllabus and curriculum design. Membership in academic bodies and related organisational activities (participation in the work of research organisations and editing research journals.

#### **5: Scientific supervision number: 10**

#### **6: Awards and Certificates of Appreciation:**

Awarded Faculty for Faculty Program (FFF) Development & Innovation Grants no (41593) from Science and Technology Development Fund in Egypt (STDF), (2019).

Awarded fellowship in Kumamoto University, Japan, as post-doctoral starting from 15 February 2019 for six months. Working in techniques valuable for drug discovery and development such as Cloning, DNA sequencing, PCR, ELISA, DNA damage induction, Western blot, Apoptosis measurement and cell culture techniques.

## 7: Scientific Mission:

Cell Biology.  
Biochemistry 1  
Biochemistry 2  
Clinical Biochemistry  
Nutrition.

## 8: Consultancy Experience:

Consultant for some Pharmaceutical companies such as Advocare Pharmaceutical company and Grand Pharma, Pharmasee company: Make formulations for sterile injection products whether ampoule or vials or ophthalmic solution, syrup-emulsion -solid dosage form (sustained release tablets-immediate release tablets-delayed release tablets) -Soft and hard gelatin Capsules. Responsible for resolving stability problems and following up on the new drug stability.

## F) Scientific Publications:

### -International journals

**Role of Serum Osteopontin Level as a Diagnostic Biomarker for Early Hepatocellular Carcinoma.** Mohamed Abdel-Hamid; Doha El-Sayed Ellakwa\*; Nesreen Nabil Omar // International Journal of Cancer Research; 2014, Vol. 10 Issue 1, p37-45. <http://scialert.net/qredirect.php?doi=ijcr.2014.37.45&linkid=pdf>

**Detection of BCL2 Polymorphism in Patient with Hepatocellular Carcinoma.** Mohamed Abdel-Hamid, Olfat Gamil Shaker, Doha El-Sayed Ellakwa\*, Eman Fathy Abdel-Maksoud. American Journal of Cancer Prevention, 2015, Vol. 3, No. 2, 27-34.

<http://pubs.sciepub.com/ajcp/3/2/2/>

**Assessment of Monocyte Chemoattractant Protein-1 (MCP-1) In Type 2 Diabetic Patients with Nephropathy.** Mohamed Hesham Mahfouz, Doha Elsayed Ellakwa, Atef Basyoni, Sara M. Sayed. International Journal of Advances in Health Sciences (IJHS). 2015, Vol. 2, Issue 5, 606-623. <http://ijhsonline.com/index.php/archives/viewdownload/12-vol2-issue5-oct-2015/1021-assessment-of-monocyte-chemoattractant-protein-1-mcp-1-in-type-2-diabetic-patients-with-nephropathy>.



**Association of Serum Neopterin Level with HCV Infection among Egyptian Blood Donors.**

Mohamed Abdel-Hamid, Yasmin Saad Ibrahim, Doha El-Sayed Ellakwa, Shahenda Nasr Ahmed. PSM Biological Research; May 2016, 1(1): 39-42. <http://psmpublishers.org/issues/association-of-serum-neopterin-level-with-hcv-infection-among-egyptian-blood-donors/>

**Target genes expression biomarkers in Egyptian bladder cancer patients.** DOHA EL-SAYED

ELLAKWA, HODA A SALEM, OMNIA ABD- EL-FATTAH. International Journal of Advanced Biotechnology and Research, 2016, 7(4). <https://drive.google.com/file/d/0B8lgDBwI33Uqcko0YnhTWkZtSU0/view>.

**Influence of Poloxmer on the Dissolution Properties of Mosapride and Its Pharmaceutical**

**Tablet Formulation.** Takwa E. Ellakwa, Alaa Fahmy\*, Doha E. Ellakwa. Egypt. J. Chem. 60, No.3, pp.443 -451 (2017). [https://www.researchgate.net/publication/319667759\\_Influence\\_of\\_Poloxmer\\_on\\_the\\_Dissolution\\_Properties\\_of\\_Mosapride\\_and\\_Its\\_Pharmaceutical\\_Tablet\\_Formulation](https://www.researchgate.net/publication/319667759_Influence_of_Poloxmer_on_the_Dissolution_Properties_of_Mosapride_and_Its_Pharmaceutical_Tablet_Formulation).

**Role of myeloperoxidase in hepatitis C virus-related hepatocellular carcinoma.** Mohamed

Abdel-Hamid, Ola Hassan Nada, Doha El-Sayed Ellakwa, Lamiaa Khalaf Ahmed. Metagene, 18 (2018), 1-8 [https://www.sciencedirect.com/science/article/pii/S2214540018301531?dgcid=rss\\_sd\\_all&showall=true&via=ihub](https://www.sciencedirect.com/science/article/pii/S2214540018301531?dgcid=rss_sd_all&showall=true&via=ihub).

**The role of chemerin and vaspin in Egyptian patients with viral hepatitis C.**

Shawkey Alia, \*Doha Ellakwa, Sally Emara, Noha El-Sabbagh. Metagene, 18 (2018): 23-30. <https://www.sciencedirect.com/science/article/abs/pii/S2214540018301555>.

**MMP-2 and MMP-9 as prognostic markers for early detection of urinary bladder cancer.**

Hanan Fouad, Hosni Salem, Doha El-Sayed Ellakwa, Manal Abdel-Hamid. Journal of Biochemical and Molecular Toxicology, 33 (4), 2019: e22275

**APO A1 AND APOA2 proteins as prognostic markers for early detection of urinary bladder cancer.** Hosni Salem, Doha El-Sayed Ellakwa, Hanan Fouad, Mona Abdel Hamid. Gene Reports (16) 2019.

**Antiproliferative-S-Trityl-L-Cysteine Derived Compounds as SIRT2 Inhibitors: Repurposing and Solubility Enhancement.** Mohamed O. Radwan, Halil I. Ciftci, Taha F. S. Ali, Doha E. Ellakwa, Ryoko Koga, Hiroshi Tateishi, Akiko Nakata, Akihiro Ito, Minoru Yoshida,

Yoshinari Okamoto, Mikako Fujita, Masami Otsuka. Molecules 24 (18), 2019: 3295.

**Design, Synthesis and Biological Evaluation of Pentacyclic Triterpene Derivatives:**

**Optimization of Anti-ABL Kinase Activity.** Halil I. CIFTCI, Mohamed O. RADWAN, Safiye E. OZTURK, N. Gokce ULUSOY, Ece SOZER, Doha E. ELLAKWA, Zeynep OCAK, Mustafa CAN,

Taha F.S. ALI, Howaida I. ABD-ALLA, Nurettin YAYLI, Masami OTSUKA \*, Mikako FUJITA. Molecules 24 (19), 2019:3535.

**Anticancer activity of Turkish marine extracts: a purple sponge extract induces apoptosis with multitarget kinase inhibition activity.** Halil I. Ciftci, Mustafa Can, Doha E. Ellakwa, Salih C. Suner, Mohamed A. Ibrahim, Ayhan Oral, Nazim Sekeroglu, Baris Ozalp, Masami Otsuka, Mikako Fujita, Mustafa Alparslan & Mohamed O. Radwan. Invest New Drugs, 38 (2020):1326-1333

[file:///C:/Users/profd/AppData/Local/Temp/Ciftci2020\\_Article\\_AnticancerActivityOfTurkishMar.pdf](file:///C:/Users/profd/AppData/Local/Temp/Ciftci2020_Article_AnticancerActivityOfTurkishMar.pdf)

**In Vitro and In Silico Evaluation of Anticancer Activity of New Indole-Based 1, 3, 4-Oxadiazoles as EGFR and COX-2 Inhibitors.** Belgin Sever, Mehlika Dilek Altıntop, Ahmet Özdemir, Gülşen Akalın Çiftçi, Doha E Ellakwa, Hiroshi Tateishi, Mohamed O Radwan, Mahmoud AA Ibrahim, Masami Otsuka, Mikako Fujita, Halil I Ciftci, Taha FS Ali. Molecules 25 (21), 2020:5190. <file:///C:/Users/profd/AppData/Local/Temp/molecules-25-05190-v2-1.pdf>

**A New Series of Antileukemic Agents: Design, Synthesis, In Vitro and In Silico Evaluation of Thiazole-Based ABL1 Kinase Inhibitors.** Ebru Zeytün, Mehlika D Altıntop, Belgin Sever, Ahmet Özdemir, Doha E Ellakwa, Zeynep Ocağ, Halil I Ciftci, Masami Otsuka, Mikako Fujita, Mohamed O Radwan. Anti-Cancer Agents in Medicinal Chemistry, 21(9) 2021:1099-1109.

<https://doi.org/10.2174/1871520620666200824100408>

**Identifying of HBV DNA in liver tissues of chronic hepatitis and hepatocellular carcinoma to study the Hepatitis B virus silent infection in Egyptian patients.** Doha E. Ellakwa, Mohamed Abdel-Hamid, Mohamed Seif EL-Din Ashour, Laila El-Sayed Khairy, Ola Sayed M. Ali. Ecological Genetics and Genomics 18. February 2021, 100077.

**Enhancement of the solubility and the dissolution rate of oral nimodipine formulation with solid dispersion.** Takwa E. Ellakwa, Doha E. Ellakwa. Egyptian Journal of Chemistry 64, No.2, 2021.5-6.

<https://doi.org/10.21608/ejchem.2020.40842.2828>. [https://ejchem.journals.ekb.eg/article\\_122764.html](https://ejchem.journals.ekb.eg/article_122764.html).

**SUMO pathway, blood coagulation and oxidative stress in SARS-CoV-2 infection.** Iman Hassan Ibrahim and Doha E. Ellakwa. Biochemistry and Biophysics Reports 2021, 26: 100938. DOI: [10.1016/j.bbrep.2021.100938](https://doi.org/10.1016/j.bbrep.2021.100938).

**The effect of insulin-loaded gold and carboxymethyl chitosan nanoparticles on gene expression of glucokinase and pyruvate kinase in rats with diabetes type 1.** Shaaban EM, Ellakwa DE, Elaraby NM, Amr KS, Mohamadin AM. Journal of Food Biochemistry. 2022 Oct 11:e14447.

**Cognitive impairment in health care workers recovering from COVID-19 infection: a cross-sectional comparative study.** Omar AK, Dahesh S, **Ellakwa DE**, Gomaa MK, Abdulsamad B, Hanafy R, Al Metwally HG, Mohammad RN, Badawy SS, El Saleh RM, Abdelhafiz ME. Middle East Current Psychiatry. 2022 Dec;29(1):1-2.

**Study the association of microRNA polymorphisms (miR-146a, miR-4513) with the risk of coronary heart diseases in Egyptian population.**

Heba Mohamed Ali, Doha El-Sayed Ellakwa, Nesma Mohamed Elaraby, Amr Mohamed Zaher, Khalda Sayed. Journal of Biochemical and Molecular Toxicology, 2023 Mar;37(3): e23284. <https://doi.org/10.1002/jbt.2328>.

**The effect of insulin-loaded nanoparticles on immuno-reactivity of beta cells in rats with diabetes type 1.** Eman M. Shaaban<sup>1\*</sup>, Khalda S. Amr<sup>2</sup>, Ahmed M. Mohamadin and Doha E. Ellakwa. Azhar International Journal of Pharmaceutical and Medical Sciences, 2023; 3(1):96- 104. doi: 10.21608/AIJPMS.2023.136796.1144.

**Epigenetic Effect of MicroRNA in Coronary Heart Disease with and Without Diabetes.** Ahmed HM, Amr KS, Zaher AM, Ellakwa DE. Azhar International Journal of Pharmaceutical and Medical Sciences. 2023 Jan 1;3(1):78-85.

**A promising RNA nanotechnology in clinical therapeutics: a future perspective narrative review.** Mahmoud M Tolba, Abdul Jabbar, Sadia Afzal, Mohammed Mahmoud, Farheen Zulfiqar, Ingy El-Soudany, Salma Samir, Al-Hassan Soliman Wadan, Takwa E Ellakwa & Doha El-Sayed Ellakwa. future-science QA, 18 Jul 2023. <https://doi.org/10.2144/fsoa-2023-0067>.

## **G) Skills**

- Language Skills: English
- Computer Skills: Word, Excell, Powerpoint
- Presentation skills: Oral & poster