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Personal data

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Current position

Professor of Biochemistry, Faculty of Science, Ain Shams University, Cairo, Egypt

Major academic discipline

Biochemistry

Specialization

Molecular Oncology

Educational background

1. **Bachelor of Science (B.Sc.)** in Biochemistry (*Very good with honors*) from the Faculty of Science, Ain Shams University, Cairo, Egypt (2002).
2. **Master of Science (M.Sc.)** in Biochemistry from the Faculty of Science, Ain Shams University, Cairo, Egypt (2007). The thesis was entitled "**A Molecular Study on Deoxyribonucleic Acid Methylation Associated with Ovarian Cancer**".
3. **Doctor of Philosophy (Ph.D.)** in Science in Biochemistry from the Faculty of Science, Ain Shams University, Cairo, Egypt (2013). The thesis was entitled "**The Gene Expression Level of Transforming Growth Factor-beta (TGF-beta) and Significance of Survivin in Hepatocellular Carcinoma**".

Academic positions

With more than 23 years of experience, including 13 years after Ph.D., I rose through academic ranks as follows: -

- **Teaching Assistant, Ain Shams University (2003–2007).**
 1. Assisted in delivering practical sessions for undergraduate biochemistry students.
 2. Developed core technical skills in molecular biology, specifically focused on DNA methylation and its association with ovarian cancer during the preparation and completion of an M.Sc. in Biochemistry.
- **Lecturer, Ain Shams University (2007–2013).**
 1. Took on full responsibility for delivering practical sessions for undergraduate biochemistry students and assisted in their delivery to the graduate ones.
 2. Began participating in departmental committees.
 3. Conducted Ph.D. research on TGF- β and Survivin gene expression in hepatocellular carcinoma.
- **Assistant Professor of Biochemistry, Ain Shams University (2013–2020).**

1. Designed and taught advanced undergraduate and graduate courses, including Vitamins, Food Biohazards, Environmental Biology, and Bio-statistical Analysis.
 2. Served as a coordinator of the Biochemistry/Chemistry program.
 3. Expanded research portfolio by leading studies as a corresponding author on topics such as radioprotection (e.g., platelet-rich plasma and zingerone).
 4. Actively engaged as a reviewer for international journals.
- **Associate Professor of Biochemistry, Ain Shams University (2020–2025).**
 1. Continued teaching and curriculum development, incorporating modern pedagogical approaches.
 2. Strengthened publication record with high-impact papers, focusing on cancer genetics, nanomedicine, and network pharmacology.
 3. Supervised numerous graduate theses and guided junior faculty and researchers.
 4. Acted as the coordinator of Academic Advising and participated in the efforts for the national programmatic accreditation of the Biochemistry and Biochemistry/Chemistry programs in the Faculty of Science, Ain Shams University.
 5. Enhanced national and international research networks.
 6. Attended and contributed to international conferences and workshops on oncology, education, and AI in teaching.
 - **Professor of Biochemistry, Ain Shams University (2025–present).**
 1. Provide undergraduate and graduate instruction in biochemistry and molecular biology, including supervision of laboratory-based practical courses with a strong emphasis on experimental rigor, safety, and data analysis.
 2. Design, develop, and teach undergraduate and postgraduate courses in biochemistry, molecular biology, and analytical techniques.
 3. Supervise and mentor M.Sc. and Ph.D. students, guiding research project design, experimental execution, statistical analysis, and preparation of manuscripts for publication in peer-reviewed international journals.
 4. Foster the integration of research and teaching by incorporating molecular oncology, cancer biomarkers, and gene regulation concepts into course content and graduate training.
 5. Contribute to curriculum development, academic advising, and program accreditation, supporting quality assurance and continuous enhancement of biochemistry education.
 6. Actively advance scientific knowledge in biochemistry and molecular biology through research-led teaching, interdisciplinary collaboration, and graduate mentorship.

Skills

❖ Soft skills

- Collaboration: Work effectively in teams to accomplish research objectives.
- Problem-solving: Tackle challenges that arise during research and develop innovative solutions.
- Critical thinking: Evaluate experimental results and draw accurate conclusions based on the evidence.

❖ Hard skills

- Research methodology: Design and execute experiments to test hypotheses systematically.
- Lab techniques: Master a variety of lab procedures, including DNA, mRNA, and miRNA extraction, reverse transcription, conventional PCR and qPCR, agarose gel electrophoresis.
- Bioinformatics: Use online databases and software tools to analyze and interpret biological data.
- Statistical analysis: Use different statistical tests incorporated in SPSS, GraphPad Prism, and MedCalc software to analyze and interpret experimental results.

- Scientific writing: Able to communicate complex scientific concepts clearly and effectively.

Publications

I co-authored 25 research articles. Among, 24 were published in international journals indexed in Scopus and/or Web of Science.

1. An integrated *in vitro* and *in silico* study to unveil the therapeutic potential of *Chiliadenus montanus* (Vahl) Brullo extract and extract-loaded chitosan nanoparticles against MDA-MB-231 breast cancer cells. Haidy M Ebrahim, Magda K Ezz, Wafaa Abdullah, Hala S Abuelmaakarem, Zienab E Eldin, Weaam Ebrahim, **Ahmed F Soliman**. *J Drug Deliv Sci Technol* 2026; 121: 108309.
2. Clinical significance of adropin and salusins circulating levels in end-stage kidney disease patients with cardiovascular events. Fatma ES Lashin, Fatma F Abdel Hamid, Amr DM El-Guindy, Dalia S Soliman, **Ahmed F Soliman**. *Hemodial Int* 2026; 30(1): 110-117.
3. Rutin attenuates bleomycin-induced acute lung injury via miR-9-5p mediated NF-κB signaling inhibition: network pharmacology analysis and experimental evidence. Fatema S Alatawi, Awatif ME Omran, Eman Rashad, Omnia N Abdel-Rahman, **Ahmed F Soliman**. *Front Pharmacol* 2025; 16: 1522690.
4. Targeting refractory diffuse large B cell lymphoma by CAR-WEE1 T-cells: In vitro evaluation. Hadeer M Ahmed, Said S Moselhy, Magda I Mohamad, **Ahmed F Soliman**, Marwa NM Hassan, Nashwa El-Khazragy. *Ann Hematol* 2025; 104(3): 1833-1844.
5. Network pharmacology prediction and experimental validation of ferulic acid's protective effects against diclofenac-induced liver injury. Fatema S Alatawi, Awatif ME Omran, Mohsen S Alatawi, Eman Rashad, Noha AE Yasin, **Ahmed F Soliman**. *J Food Biochem* 2024; 2024: 5592390.
6. Rs12039395 variant influences the expression of hsa-miR-181a-5p and PTEN toward colorectal cancer risk. Wael A El-korany, Walid E Zahran, Mohamed A Alm El-Din, Hanan A Al-Shenawy, **Ahmed F Soliman**. *Dig Dis Sci* 2024; 69(9): 3318-3332.
7. Correlations between beclin-1 and transforming growth factor-β1 in letrozole induced polycystic ovary syndrome. Nermin M Hamdy, Hala M Ghanem, Mervat M Mohamed, Fawzia AA Abd El-Rahman, **Ahmed F Soliman**. *Indian J Exp Biol* 2024; 62(5): 332-340.
8. Clinical assessment of *TGFB1* and *HP* relative gene expression in the peripheral blood of prostate cancer patients. Mohammed S Yahya, Fatma F Abdel Hamid, Noha H Radwan, Iman A Abdelgawad, **Ahmed F Soliman**. *Asian Pac J Cancer Prev* 2024; 25(2): 709-717.
9. Assessment of serum levels of bone morphogenetic proteins as sensitive biomarkers for early prediction of acute myocardial infarction. Fahmy T Ali, Nahla S Hassan, Rehab R Abdraboh, Samia A Hassan, Mostafa A Elnozahi, **Ahmed F Soliman**. *Egypt J Pure Appl Sci* 2023; 61(1): 28-39.
10. Association of *TRPV5*, *CASR*, and *CALCR* genetic variants with kidney stone disease susceptibility in Egyptians through main effects and gene–gene interactions. Fahmy T Ali, Eman M Abd El-Azeem, Hala F A. Hekal, Mayada M El-Gizawy, Mohamed S Sayed, AbdAllah Y Mandoh, **Ahmed F Soliman**. *Urolithiasis* 2022; 50(6): 701-710.
11. Association of *MTHFR* and *TYMS* gene polymorphisms with the susceptibility to HCC in Egyptian HCV cirrhotic patients. Hany MM Abdel Allah, Walid E Zahran, Samir A El-Masry, Mahmoud El-Bendary, **Ahmed F Soliman**. *Clin Exp Med* 2022; 22(2): 257-267.
12. Chitosan and solid lipid nanoparticles enhance the efficiency of alpha-lipoic acid against experimental neurotoxicity. Heba H Metwaly, Shadia A Fathy, Mehreban M Abdel Moneim, Manal A Emam, **Ahmed F Soliman**, Mehrez E El-Naggar, Enayat A Omara, Mona A El-Bana. *Toxicol Mech Methods* 2022; 32(4): 268-279.

13. Relative expression and prognostic significance of *forkhead box P3* in childhood B-cell acute lymphoblastic leukemia. Hossam El-Din A Abdelhafeez, Fatma F Abdel Hamid, Naglaa M Hassan, Magda M Assem, **Ahmed F Soliman**. *Pediatr Blood Cancer* 2021; 68(10): e29129.
14. Influence of genetic variants in asparaginase pathway on the susceptibility to asparaginase-related toxicity and patients' outcome in childhood acute lymphoblastic leukemia. Yomna H Youssef, Sara M Makkeyah, **Ahmed F Soliman**, Nefissa H Meky. *Cancer Chemother Pharmacol* 2021; 88(2): 313-321.
15. Impact of long-term use of mobile phones on the prostate in human users. Madyha H Mahmoud, Nadia Y Morcos, Khadiga S Ibrahim, Amal S Hussein, Noha H Ibrahim, **Ahmed F Soliman**. *OnLine J Biol Sci* 2020; 20(4): 270-277.
16. Differential expression of miR-21, miR-23a, and miR-27a, and their diagnostic significance in Egyptian colorectal cancer patients. Sally Farouk, Ahmed Khairy, Ahmed M Salem, **Ahmed F Soliman**, Noha G Bader El Din. *Genet Test Mol Biomarkers* 2020; 24(12): 825-834.
17. Evaluation of *E2F3* and *Survivin* expression in peripheral blood as potential diagnostic markers of prostate cancer. Ahmed M Wadaa Allah, Fatma F Abdel Hamid, **Ahmed F Soliman**, Noha Ibrahim, Ibrahim Malash, Iman A Abdelgawad. *Turk J Biochem* 2020; 45(5): 525-532.
18. Cyclophilin A and matrix metalloproteinase-9: Their relationship, association with, and diagnostic relevance in stable coronary artery disease. Hala F Ebrahim, Fatma F Abdel Hamid, Mohamed A Haykal, **Ahmed F Soliman**. *Vascular* 2020; 28(2): 212-221.
19. A combined treatment of curcumin, piperine, and taurine alters the circulating levels of IL-10 and miR-21 in hepatocellular carcinoma patients: a pilot study. Hala M Hatab, Fatma F Abdel Hamid, **Ahmed F Soliman**, Tamer A Al-Shafie, Yahia M Ismail, Motawa E El-Houseini. *J Gastrointest Oncol* 2019; 10(4): 766-776.
20. Platelet-rich plasma ameliorates gamma radiation-induced nephrotoxicity via modulating oxidative stress and apoptosis. **Ahmed F Soliman**, Mostafa Saif-Elnasr, Salma M Abdel Fattah. *Life Sci* 2019; 219: 238-247.
21. Platelet-rich plasma as a potential therapeutic approach against lead nitrate- and/or gamma radiation-induced hepatotoxicity. Salma M Abdel Fattah, Mostafa Saif-Elnasr, **Ahmed F Soliman**. *Environ Sci Pollut Res* 2018; 25(34): 34460-34471.
22. Short-term impact of laparoscopic sleeve gastrectomy on serum cartonectin and vaspin levels in obese subjects. Doaa M Ibrahim, Nagwa R Mohamed, Tarek A Fouad, **Ahmed F Soliman**. *Obes Surg* 2018; 28(10): 3237-3245.
23. Cardioprotective effect of zingerone against oxidative stress, inflammation, and apoptosis induced by cisplatin or gamma radiation in rats. **Ahmed F Soliman**, Lobna M Anees, Doaa M Ibrahim. *Naunyn Schmiedebergs Arch Pharmacol* 2018; 391(8): 819-832.
24. Association of *MTHFR* C677T and *ABCA1* G656A polymorphisms with obesity among Egyptian children. Ibrahim H Borai, **Ahmed F Soliman**, Hadeer M Ahmed, Gihan F Ahmed, Samar K Kassim. *Gene Rep* 2018; 11: 143-149.
25. Circulating 25-hydroxy vitamin D correlates with serum level of anti-Müllerian hormone in male patients with chronic kidney disease. Fatma F Abdel Hamid, **Ahmed F Soliman**, Fatma ES Lashin. *Andrologia* 2018; 50(4): e12972.

No. of publications (2018-2025)	Scopus (at publication date)
• In Q1 journals	11
• In Q2 journals	6
• In Q3 journals	3
• In Q4 journals	3
• In non-indexed journals	2

Peer review activities

With more than 100 verified reviews, I had the privilege of being a reviewer for 48 international journals indexed in Web of Science as follows: -

- 3 Biotech
- Acupuncture in Medicine
- Acta Oncologica
- Aging
- Annals of Human Biology
- Archives of Physiology and Biochemistry
- Biochemistry and Biophysics Reports
- BioMed Research International
- Biomedical and Environmental Sciences
- Biomolecular Concepts
- BMC Cancer
- BMC Cardiovascular Disorders
- Brazilian Archives of Biology and Technology
- British Journal of Haematology
- Cancer Biomarkers
- Cancer Reports
- Cancer Science
- Chemistry and Biodiversity
- Clinical and Experimental Gastroenterology
- Clinical Medicine Insights: Oncology
- Discover Oncology
- DNA and Cell Biology
- Environmental Sciences and Pollution Research
- Evidence-Based Complementary and Alternative Medicine
- Gene
- Gene Reports
- Infection and Drug Resistance
- Journal of Bioenergetics and Biomembranes
- Journal of Food Biochemistry
- Journal of Inflammation Research
- Journal of Interventional Cardiology
- Journal of Translational Medicine
- Leukemia and Lymphoma
- Medical Science Monitor
- Medicine
- Minerva Medica
- Molecular Biology Reports
- Natural Product Communications
- OMICS: A Journal of Integrative Biology
- Oncology Letters
- Oxidative Medicine and Cellular Longevity
- Pharmaceutical Biology
- Pharmacogenomics and Personalized Medicine
- Scientific Reports
- The Journal of Biomedical Research
- Toxicology Mechanisms and Methods
- Translational Andrology and Urology
- World Journal of Pediatrics

Scientific and applied activities

1. Academic teaching

By giving lectures, I participate in teaching biochemistry courses to students of Biochemistry and other departments/programs.

❖ Duties and responsibilities

- Using strategies and skills necessary to support student learning and preparing and delivering current and relevant course material in an understandable and motivating manner.
- Continual assessment of course objectives and instructional methods to improve teaching and learning.
- Using formative and summative assessments of student learning within assigned courses to inform instruction and improve student attainment of course objectives and program outcomes.
- Being familiar with a variety of instructional delivery methods, including digital platforms, group activities, and portfolios to provide educational content and opportunities supported by evidence-based research and individual expertise.
- Being familiar with different learning management systems.
- Preparing comprehensive course syllabus, to include approved student learning objectives/outcome evaluation form.
- Performing student academic advisement, holding office hours, and providing support to students concerning program choices and career possibilities
- Supporting the institutional outcomes initiatives by working to refine and revise course assignments and evaluation tools and participating in data analysis discussions to make program and course improvements.

- Facilitating development and revision of curricula and courses, assuring alignment within the program description and outcomes, course objectives and content, as well as university/Commission for Academic Accreditation curriculum standards.
- Attending faculty meetings, department meetings, committee meetings, professional development programs, and other university events, as applicable.

❖ Courses

Second year/level students

- **2017-present:** Lipid Metabolism (BIOC 210) for second level Biochemistry/Chemistry program students (Credit hours system).
- **2021-present:** Instrumental Analysis (BIOT 201) for second level Applied Biotechnology program students (Credit hours system).

Third year/level students

- **2013:** Basic Biochemistry (361 Bioch) for third year Zoology students.
- **2013-2015:** Basic Biochemistry (351 Bioch) for third year Entomology students.
- **2014-2016:** Food Biohazards (304 Bioch) for third year Biochemistry major students.
- **2014:** Vitamins (301 Bioch) for third year Biochemistry/Chemistry students.
- **2018:** Vitamins (301 Bioch) for third year Biochemistry/Chemistry and Biochemistry/Microbiology students.
- **2015-2017:** Vitamins (301 Bioch) for third year Biochemistry major students.

Fourth year/level students

- **2015-2017:** Environmental Biology (410 Bioch) for fourth year Biochemistry/Chemistry students.
- **2017-2019:** Environmental Biology (410 Bioch) for fourth year Biochemistry/Chemistry and Biochemistry/Microbiology students.
- **2013-2020:** Chromatography (402 Bioch) for fourth year Biochemistry major students.
- **2021-2024:** Biochemical Separation and Analytical Techniques (BIOC 404) for fourth level Biochemistry program students (Credit hours system).

Graduate students

- **2014-2017:** Bio-statistical Analysis (523 Bioch) for Diploma of Analytical Biochemistry students.
- **2017-2022:** Instrumental Analysis (521 Bioch) for Diploma of Analytical Biochemistry students.
- **2022-2025:** Instrumental and Analytical Techniques (BIOC 537) for students of Biochemical Analysis Diploma program (Credit hours system).
- **2020-2022:** Bioenergetics (643 Biophy) for Biophysics Pre-master's students.
- **2024-present:** Recombinant DNA Technology (BIOC 615) for Biochemistry and Molecular Biology Pre-master's students (Credit hours system).

Further, I am participating in the practical study by supervising the practical laboratories of

Undergraduate students

- Participate in supervising the second-year Lab for the Biology division.
- Participate in supervising the second-level Lab for the Biochemistry and Biochemistry/Chemistry programs (Credit hours system).
- Participate in supervising the third-year Lab for the Biochemistry and Biochemistry/Chemistry students.
- Participate in supervising the third-level Lab for the Biochemistry and Biochemistry/Chemistry programs (Credit hours system).

- Participate in supervising the fourth-year Lab for the Biochemistry and Biochemistry/Chemistry students.

Graduate students

- Participate in supervising the Diploma of Analytical Biochemistry Lab.
- Participate in supervising the Biochemical Analysis Diploma program (Credit hours system) Lab.

2. Supervision on M.Sc. and Ph.D. theses

I had the chance to supervise many graduate students, guiding their research projects to successful completion. My role included, but was not limited to, designing the study, suggesting experiments, assisting in performing some practical analysis, analyzing and interpreting the results, and more.

▪ **Supervision on Ph.D. theses in Biochemistry Department, Faculty of Science, Ain Shams University**

- **Madyha Hassan Mahmoud:** The Probability of Prostate Cancer Due to Misuse of Mobile Phone. (**Earned**)
- **Hany Mohamed Mohamed Abdalla:** Genetic Polymorphism of Selected Genes as Susceptible Risk Factors in the Progression of Hepatitis C Viral Infection to Hepatocellular Carcinoma. (**Earned**)
- **Wael Ahmed El-Sayed:** Effect of Single Nucleotide Polymorphism in miRNA-181a Encoding Gene on PTEN Protein Expression in Patients with Colorectal Cancer. (**Earned**)
- **Sally Farouk Abdel-Aziz:** Study the Expression of Some miRNA in Tissues of Egyptian Colorectal Cancer Patients. (**Earned**)
- **Rehab Reda Abdraboh:** Long Non-Coding RNAs and Bone Morphogenetic Proteins as Novel Diagnostic Biomarkers for Myocardial Infarction. (**Earned**)
- **Hala Fawzy Ahmed:** Assessment of Selected Genetic Polymorphisms in Egyptian Patients with Kidney Stone Disease. (**Earned**)
- **Fatma El-Said Said:** Assessment of Adropin, Salusin- α , and - β Levels in End-Stage Renal Disease Patients with Cardiovascular Complications. (**Earned**)
- **Hadeer Mohamed Ahmed:** Targeting Refractory Diffuse Large B-cell Lymphoma by Engineered T-Cells. (**Earned**)
- **Heba Hassan Metwaly:** Possible Therapeutic Effect of Alpha-lipoic Acid Nanoparticles and Alpha-lipoic Acid Coated with Nanoparticles on an Experimental Model of Neurotoxicity. (**Earned**)
- **Haidy Morsy Ebrahi:** Potential Effect of *Chiliadenus montanus* (Vahl) Brullo Extract-Loaded Chitosan Nanoparticles on Human Breast Cancer Cell Line. (**Ongoing**)

▪ **Supervision on M.Sc. theses in Biochemistry Department, Faculty of Science, Ain Shams University**

- **Fatma El-Said Said:** Assessment of Anti-Müllerian Hormone Level in Male Patients with Chronic Kidney Disease. (**Earned**)
- **Hadeer Mohamed Ahmed:** Assessment of Methylene Tetrahydrofolate Reductase and ATP-binding Cassette Transporter A1 Gene Polymorphism in Obese Egyptian Children. (**Earned**)
- **Nermin Mohammed Hamdy:** Assessment of the Relation between Autophagy and Transforming Growth Factor-beta1 (TGF- β 1) in Polycystic Ovarian Syndrome (PCOS) Rat Model. (**Earned**)

- **Hala Mohamed Hatab:** Effect of Natural Products' Combination on MicroRNAs Expression Level in Patients with Hepatocellular Carcinoma. (**Earned**)
- **Hala Fayez Ebrahim:** Evaluation of Cyclophilin A in Type II Diabetic Patients with Coronary Artery Disease. (**Earned**)
- **Hossam El Din Ahmed Abdelhafeez:** Evaluation of FOXP3 Gene Expression Level in Childhood Acute Lymphoblastic Leukemia. (**Earned**)
- **Ahmed Mahmoud Wadaa Allah:** Evaluation of Survivin and E2F3 mRNAs in Blood of Prostate Cancer Patients. (**Earned**)
- **Mohammed Sherif Yahya:** Evaluation of Transforming Growth Factor-beta1 and Haptoglobin mRNAs in Blood of Prostate Cancer Patients. (**Earned**)
- **Yomna Hassan Hassouna:** Evaluation of GliClazide Loaded Chitosan Nanoparticles in Type 2-Induced Diabetic Rats. (**Ongoing**)
- **Supervision on M.Sc. theses in other departments, Faculty of Science, Ain Shams University**
- **Yomna Hesham Youssef:** Relation between Genetic Variance of Some Selected Genes and Therapeutic Effect of Asparaginase in Childhood Acute Lymphoblastic Leukemia. (**Earned**)

	M.Sc.	Ph.D.
No. of graduates supervised	10	10
No. of graduates who earned their degree	9	9

Membership

- Member of the Egyptian Society for Biochemistry and Molecular Biology.

Membership in Department/Faculty committees

- Member of the internal examination controller office for the fourth year and diploma students in the Department (2014-2020).
- Member of the Department printing the practical notes committee (2018-2020).
- Member of the internal examination controller office for the fourth level and master students in the Department.
- Member of the Department devices, laboratories, and safety committee.
- Member of the Department revising the exam paper committee.
- Supervisor and member of the examiner committee of graduation essays for fourth year/level students in the Department.
- Member of the Department oral examiner committee for the students in the second, third, and fourth year/level, in addition to the Biochemical Analysis Diploma and Master's programs.
- Member of the Faculty Biological Programs' examination controller office.
- Member of the Faculty Master's examination controller office (2016-2022).

Conferences and workshops attended

❖ Conferences

- The Annual Conference of the National Committee for Biochemistry and Molecular Biology
 - The 12th National Conference entitled "**Role of Biochemistry and Molecular Biology in Drug Discovery and Disease Diagnosis**" held on 15-17/3/2015.
 - The 14th National Conference entitled "**Advances in Biomarkers, Genetic Diagnosis, and Laboratory Medicine of Diseases**" held on 29-30/3/2017.
 - The 16th International Conference entitled "**Recent Trends in Biochemistry and Molecular Biology: Towards Vision 2030**" held on 14-15/9/2019.

- The 17th International Conference entitled "**COVID-19: Preparing for the Next Pandemic**" held on 14-15/9/2021.
- The 18th International Conference entitled "**Towards a Better Future for Humanity**" held on 16-17/9/2023.
- The Annual National Scientific Conference of the Egyptian Society of Biochemistry and Molecular Biology and the Egyptian Society of Tumor Markers Oncology entitled "**Recent Advances in Biochemistry, Molecular Biology, and Tumor Markers**" held on 5-6/5/2016.
- The 5th Scientific Conference of Ain Shams University entitled "**Egypt and Making the Future: Towards Intellectual and Scientific Vision**" held on 12-14/4/2016.
- The 11th Annual Ain Shams University International Conference entitled "**Knowledge Economy for Better Life**" held on 10-11/5/2023.
- The 13th Breast - Gynecological & Immunooncology International Cancer Conference (BGICC) entitled "**Challenging the Impossible**" held on 21-22/1/2021.
- Children's Cancer Hospital, 57357, Conference entitled "**Technological Frontiers of Biomedical Research**" held on 12/5/2023.

❖ Workshops

- Training course entitled "**DNA Sequencing**" held by the Central Laboratory, Faculty of Science, Ain Shams University on 4-8/7/2004.
- Training course entitled "**First Aids**" held by Faculty of Science, Ain Shams University on 28/11/2012.
- Workshop entitled "**Education Outputs and Curriculum Maps**" held by the Quality Assurance and Accreditation Center, Ain Shams University on 17/9/2014.
- Workshop entitled "**Academic Standards and Educational Programs**" held by the Quality Assurance and Accreditation Center, Ain Shams University on 28-29/10/2015.
- Virtual workshop entitled "**Effective Post-Submission Publishing Strategies**" held by Nature Research Academies in collaboration with the Egyptian Knowledge Bank (EKB) on 18/1/2022.
- Webinar entitled "**Regulation of Bacterial Virulence as an Approach to Combat the Problem of Antibiotic Resistance**" held by Faculty of Pharmacy, Helwan University on 24/1/2022.
- Webinar entitled "**Journal Publishing Process EKB (PS0401MEA): The Publication Criteria for Structuring an International Journal**" held by Emerald Publishing in collaboration with the Egyptian Knowledge Bank (EKB) on 18/11/2024.
- Webinar entitled "**Editor's Role in International Journals**" held by Emerald Publishing in collaboration with the Egyptian Knowledge Bank (EKB) on 25/11/2024.
- Webinar entitled "**Leveraging AI to Foster Active Learning: Innovative Strategies for Educators**" held by Britannica Digital Learning, a division of Encyclopaedia Britannica Inc., in collaboration with the Egyptian Knowledge Bank (EKB) on 17/3/2025.
- Webinar entitled "**Advanced Critical Thinking Using AI**" held by Britannica Digital Learning, a division of Encyclopaedia Britannica Inc., in collaboration with the Egyptian Knowledge Bank (EKB) on 7/4/2025.
- Workshop entitled "**Teaching with AI: Practical Tips and Prompts**" held by The International Institute of Online Education (IIOE) initiative proposed by the International Centre for Higher Education Innovation under the auspices of UNESCO (UNESCO-ICHEI) in partnership with Ain Shams University on 15/8/2025.
- Webinar entitled "**CAR-T Cell Targeted Delivery of Secreted Therapeutics for Solid Tumors**" held by Creative Biolabs on 24/11/2025.

- Workshop entitled "**Co-Design Engaging Courses with Generative AI**" held by The International Institute of Online Education (IIOE) initiative proposed by the International Centre for Higher Education Innovation under the auspices of UNESCO (UNESCO-ICHEI) in partnership with Ain Shams University on 4/2/2026.

❖ Training Programs of Faculty Members and Leaders Development (FLDP)

1. Lifelong Education.
2. Thinking Skills.
3. Communication Skills.
4. Credit Hours System.
5. Using Technology in Teaching.
6. Methods of Scientific Research.
7. Organizing Scientific Conferences.
8. Local and International Competitive Research Projects.
9. Leadership.
10. Scientific Writing Level 1.
11. Effective Teaching.
12. Examination Systems and Student Assessment.
13. E-learning by Moddle.
14. Capacity Development for Internationalization.
15. Stress and Conflict Management.
16. Financial Aspects in University Affairs.
17. Key Performance Indicators (KPIs) and Benchmarking.
18. Legal Aspects in University Affairs.

Quality work and tasks in Department/Faculty

- Coordinator of the Biochemistry/Chemistry program in Biochemistry Department (2014-2020).
- Coordinator of academic advisement for Biochemistry and Biochemistry/Chemistry Programs (2024-present).

❖ Duties and responsibilities

- Provide leadership in the development, implementation, and evaluation of advising interventions to assist students in making timely progress toward degree completion, with emphasis on processes of registration and advisement.
- Take responsibility for assessing the effectiveness of the Student Advising Services Office and use the results of the assessment process to improve the effectiveness of the office and its programs.
- Coordinate and facilitate training of faculty advisors. Update the advising manuals and make them available to all advisors.
- Take responsibility for and represent student academic advising services during the planning of the faculty's orientation programs.
- Oversee processing of academic advising and registration functions for all students.
- Manage the process for change of student majors, including accuracy of student records and follow-up communication related to change of major advisors.
- Serve on faculty-wide committees and teams to support and enhance student success.
- Collaborate with the Registrar and the Vice Dean of Education and Student Affairs to project enrollments for the planning of course schedules.

- Act as liaison to the Office of Admissions to make recommendations and predict operational impact of new systems, software, and data entry/collection mechanisms that impact areas of student advisement and success.
- Coordinate the transfer seminar class each semester.
- Serve as primary contact for service members seeking advice and help with continuation of study plans.
- Member of the Academic Standards Review Committee for the programmatic accreditation of the Biochemistry program with the credit-hour system in the department.
- Coordinator of the standard of financial resources and financial facilities supporting the educational process for Biochemistry and Biochemistry/Chemistry programs with the credit-hour system during the application for programmatic accreditation from the National Authority for Quality Assurance of Education and Accreditation (2022-present). **Accreditation was achieved in November 2025.**
- Participated in preparing a proposal for the regulations of the credit-hour system for the master's programs in the Biochemistry Department.
- Participate in attending meetings related to quality work and tasks in the department and faculty.

Student activities

- Member of the Organizing Committee of the third annual conference of the Biochemistry Department held on 7-8/5/2017 at the guest house, Ain Shams University.

Other activities

- Attend public lectures, seminars to discuss scientific theses (Master's/PhD), and seminars to discuss research plan proposals in the Biochemistry Department.
- Participated in the preparation of the practical note of Diploma of Analytical Biochemistry/Biochemical Analysis Diploma program (Credit hours system).
- Participated in the preparation of the Department's project proposal "**Preparation of a Laboratory in the Field of Advanced Biotechnology Research at the Department of Biochemistry, Faculty of Science, Ain Shams University**" as one of the competitive projects for the excellence of higher education institutions, which was put forward through the Higher Education Development Projects Management Unit, Excellence Support Department, Ministry of Higher Education and Scientific Research (2013-2014).