

# Curriculum Vitae

<b>Personal Data</b>	<ul style="list-style-type: none"><li>• <b>Name in full :</b> Aya Ahmed Ahmed Mohammed El-Hanafy</li><li>• <b>Date / place of Birth :</b> 22/8/1982, Mansoura, Dakahlia, Egypt</li><li>• <b>Present Occupation:</b> Assistant professor of Medical Biochemistry &amp; Molecular Biology, Faculty of medicine, Mansoura University/ Faculty of Dentistry, Mutah University.</li><li>• <b>Marital status:</b> Widow / 3 sons</li><li>• <b>Religion:</b> Muslim</li><li>• <b>Mobile No:</b> +2/ 01151961726</li><li>• <b>e-mail address:</b> -<a href="mailto:dr.ayaelhanafy@mans.edu.eg">dr.ayaelhanafy@mans.edu.eg</a> <a href="mailto:dr.ayaelhanafy@MUTAH.EDU.JO">dr.ayaelhanafy@MUTAH.EDU.JO</a> <a href="mailto:dr.ayaelhanafy@yahoo.com">dr.ayaelhanafy@yahoo.com</a></li><li>• <b>Work Postal Address:</b> Medical Biochemistry &amp; Molecular Biology Department, Faculty of Medicine, Mansoura University, Mansoura 35516, Egypt</li></ul>
<b>Qualifications</b>	<ul style="list-style-type: none"><li>• <b>MBBCh of Medicine and Surgery (November 2005),</b> Faculty of Medicine, Mansoura University (Egypt): Excellent with honors</li><li>• <b>Master Degree in Medical Biochemistry and Molecular Biology (2011),</b> Faculty of Medicine, Mansoura University (Egypt). -Subject: "Genetic factors contributing Metabolic Syndrome"/essay</li><li>• <b>Ph.D degree in Medical Biochemistry and Molecular Biology- Mansoura university (2017),</b> Faculty of Medicine, Mansoura University (Egypt). -Subject: "Gene Expression of Autophagy-Related Markers in Breast Cancer"/Thesis.</li></ul>

**Academic Positions**

- **5/2007-10/2011: Demonstrator** at Medical Biochemistry and Molecular Biology Department, Faculty of Medicine, Mansoura University, Egypt.
- **10/2011–10/2017: Assistant Lecturer** at Medical Biochemistry and Molecular Biology Department, Faculty of Medicine, Mansoura University, Egypt.
- **10/2017–8/2025: Assistant Professor** at Medical Biochemistry and Molecular Biology Department, Faculty of Medicine, Mansoura University.
- 10/2021-2023: **Assistant Professor** of Medical Biochemistry and Molecular Biology, Faculty of Medicine, Department of basic medical science, **New Mansoura University**, Egypt **(Part time)**.
- 10/2023-7/2025: **Assistant Professor** of Medical Biochemistry and Molecular Biology, Faculty of Medicine, Department of basic medical science, **New Mansoura University**, Egypt **(Full time)**.

## Teaching experiences

- Teaching lectures of medical biochemistry for the level 1&2 undergraduates students, Subject-based. Faculty of Medicine, Mansoura University **(2018)**.
- Teaching lectures of medical biochemistry, Semester 2, level 1 students, Mansoura Integrated Medical Program for undergraduates, Faculty of Medicine, Mansoura University **(2019-2023)**.
- Teaching lectures of medical biochemistry, Semester 3, level 2 students, Mansoura Integrated Medical Program for undergraduates, Faculty of Medicine, Mansoura University **(2019-2023)**.
- Teaching lectures & practical courses of medical biochemistry & molecular biology for level 1 & level 2 students, faculty of **Medicine**, Basic medical science department, **New Mansoura University (2021-present)**
- Teaching lectures & practical courses of medical biochemistry & molecular biology for the 1<sup>st</sup> year students, faculty of **Dentistry**, **New Mansoura University (2021-present)**
- Teaching lectures of Medical Biochemistry for the level 1 students in the Technical Health Institute, Nursing department, Mansoura, Egypt **(2017-2019)**.
- Teaching lectures of medical biochemistry for the level 1 students, Specialized Diploma in nursing program, Technical Institute, Faculty of Nursery, Mansoura University **(2018- 2019)**.
- Teaching lectures of medical biochemistry for the level 1 students, Faculty of Nursery, Mansoura University **(2019- 2021)**.
- Teaching the practical course of Medical Biochemistry for level 1 & level 2 students, Faculty of Medicine, Mansoura University **(2007- 2017)**
- Teaching the practical course of biochemistry for the level 1 students, faculty of Dentistry, Mansoura University **(2007-2011)**
- Teaching the practical course of biochemistry for the level 1 students, faculty of Nursery, Mansoura University **(2007-2011)**
- Teaching lectures of biochemistry and Molecular biology for Master degree Postgraduate students, faculty of Medicine, Mansoura University.
- Teaching Practical training courses for Master Degree Postgraduate students, faculty of Medicine, Mansoura University.

<b>Activities</b>	<ul style="list-style-type: none"> <li>• <b>2023- present:</b> Academic advisor and administrative coordinator for level 3 undergraduate students, Faculty of Medicine, New Mansoura University, academic year 2023-2024/ 2024-2025.</li> <li>• <b>2023- present:</b> Head of the control of Level 3 students, Semester 5 &amp; 6, Integrated Medical Program for Undergraduates, Faculty of Medicine, New Mansoura University, academic year 2023-2024/ 2024-2025.</li> <li>• <b>2021- 2023:</b> Coordinator for Medical Biochemistry, Semester 4, Mansoura Integrated Medical Program for Undergraduates, Faculty of Medicine, Mansoura University.</li> <li>• <b>2021- 2023:</b> Coordinator assistant for Semester 7, Mansoura Integrated Medical Program for Undergraduates, Faculty of Medicine, Mansoura University.</li> <li>• <b>2021-2023:</b> CBL tutor for 1st and 2nd year students, Mansoura Integrated Medical Program for Undergraduates, Faculty of Medicine, Mansoura University.</li> <li>• <b>2018-2023:</b> Academic advisor for Level 1&amp;2 medical students, Mansoura Integrated Medical Program for Undergraduates, Faculty of Medicine, Mansoura University.</li> <li>• <b>2023:</b> Member of Quality Assurance team in the Mansoura Manchester Program for Medical Education, Faculty of medicine, Mansoura University.</li> <li>• <b>2022-2023:</b> Member of Mansoura Manchester Research society.</li> <li>• <b>2021-2023:</b> Academic supervisor in Mansoura Manchester program research grant.</li> <li>• <b>2021- 2022:</b> Member in the control of Mansoura-Manchester Program for Medical Education, Level 1, Semester 1&amp; 2, Faculty of Medicine, Mansoura University</li> <li>• <b>2020- 2022:</b> Member in the control of Level 3 students, Semester 5 &amp; 6, Mansoura Integrated Medical Program for Undergraduates, Faculty of Medicine, Mansoura University</li> <li>• <b>2021-2022:</b> Member in the control of Master degree for Postgraduates, Faculty of Medicine, Mansoura University</li> <li>• <b>2019-2020:</b> Member in M.c.q online team for continuous assessment of postgraduate students, Faculty of Medicine, Mansoura University.</li> </ul>
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	<ul style="list-style-type: none"> <li>• <b>2019-2020:</b> Coordination, organisation, online exam preparation of practical courses, Semester 2 &amp; 3, Mansoura Integrated Medical Program for Undergraduates. Mansoura Faculty of Medicine.</li> <li>• <b>2008-2009:</b> Member in control of 6th year, Faculty of Medicine, Mansoura University.</li> <li>• Attending the scientific discussions of MD and Ph.D thesis at Medical Biochemistry Department, Faculty of Medicine, Mansoura University, Mansoura, Egypt.</li> <li>• Attending the regular scientific seminars held in Medical Biochemistry Department, Faculty of Medicine, Mansoura University, Mansoura, Egypt.</li> <li>• Member of Quality Assurance team in the Medical Biochemistry Department, Faculty of medicine, Mansoura University.</li> <li>• Membership of the Egyptian Medical Syndicate.</li> <li>• Membership of the Egyptian society of Biochemistry and Molecular Biology (ESBMB).</li> </ul>
<b>Lab Experiences</b>	<ul style="list-style-type: none"> <li>• Measuring different parameters in biological samples with various techniques by means of: <ul style="list-style-type: none"> <li>1- Spectrophotometry.</li> <li>2- Agarose gel Electrophoresis.</li> <li>3- Competitive binding assays (ELISA) assays.</li> </ul> </li> <li>• DNA extraction from WBCs and tissues and amplify it by using PCR technique.</li> <li>• RNA extraction from cells and tissues.</li> <li>• Reverse transcriptase RT- PCR Technique</li> <li>• Conventional PCR</li> <li>• Real-time PCR</li> <li>• Genotyping/Gene polymorphism detection</li> </ul>

## Courses, Webinars and workshops

- Training Courses of the Faculty and Leadership Development Project **"FLDP"**:
  - Time and meetings Management 11-13 Oct., 2009.
  - Ethics of the Profession 1-3 Nov., 2009
  - Communication Skills in various modes of education 24-26 Oct., 2010
  - Quality Standards of the Teaching Process 8-10 March, 2011
  - Skills of Effective Presentation 22-24 May, 2011
  - Scientific Research Ethics 12-14 June, 2011
  - Credit Hours Systems 19-20 May, 2013
  - Strategic Planning 19-20 Jan., 2014
  - Conference Organization 3-4 June, 2014
  - International publishing of scientific research 3-4 May, 2015
  - Competing for research funds. 13-14 March, 2016
  - Statistical analytical skills 29-30 May, 2016
  - Basics of cord blood stem cells 10-11 Oct., 2018
  - Electronic courses design and production 22-23<sup>rd</sup> June, 2020
  - Scientific search engines and methods of ranking universities 12-13<sup>rd</sup> August, 2020
  - Skills of creativity, innovation, and entrepreneurship **22<sup>nd</sup> -23<sup>rd</sup> January 2023**
  - Quality performance in the scientific departments **13-14<sup>th</sup> August, 2023**
  - References management & electronic indexing **27-28<sup>th</sup> August, 2023**

**Courses, Webinars and workshops (Cont.)**

- Fundamentals of Digital Transformation. Held on **8 - 9<sup>th</sup> of July 2025.**
- Competency Based Medical Education, Webinar organized under supervision of Manchester-Mansoura Faculty Development program at Faculty of Medicine, Mansoura University. Held on **2<sup>nd</sup>, 3<sup>rd</sup> of December 2024.**
- Egyptian Society for Medical Education (ESME) Monthly Webinar titled “AI in Action: Enhancing Medical Education through Intelligent Content and Adaptive Learning”, Held on **4<sup>th</sup> of November 2024.**
- “Citations and references: do's and don'ts. for Faculty and Researchers” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **13<sup>th</sup> September, 2023.**
- “Journal Selection - When and Why: Pre-study, Pre-writing, Pre-submission, and Post-rejection” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **2<sup>nd</sup> August, 2023.**
- “Writing Balanced Materials and Methods. for Faculty and Researchers” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **9<sup>th</sup> August, 2023**
- “Manage your cited references at a glance using EndNote Online”. Clarivate web of science in collaboration with the Egyptian Knowledge Bank, on **24<sup>th</sup> July, 2023**
- Normalizing preprints with Preprints Citation Index”. Clarivate web of science in collaboration with the Egyptian Knowledge Bank webinar on **26<sup>th</sup> of July 2023.**
- Statistical analysis using SPSS Program. Nationalism for research, Consultancy and training. **3<sup>rd</sup> -5<sup>th</sup> Feb 2023**
- “Professional Peer-review: How to Write Professional Response to Reviewers” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **21<sup>st</sup> December, 2022.**

**Courses, Webinars and workshops (Cont.)**

- “Professional Peer-review: How to review your manuscript before submission” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **7<sup>th</sup> Dec, 2022**.
- “Preparing your Manuscript”, Taylor & Francis Group in collaboration with the Egyptian Knowledge Bank, on Monday, **15<sup>th</sup> February, 2022**.
- “Tips and advice for preparation of your paper manuscript” Researcher Academy On Campus, Elsevier Core Research Solutions, at Egyptian Knowledge Bank, **15<sup>th</sup> March, 2021**.
- “Getting started with Mendeley”, Researcher Academy On Campus, Elsevier Core Research Solutions, at Egyptian Knowledge Bank, **16<sup>th</sup> March, 2021**.
- “Understanding the peer review and publication processes”, IET webinar in collaboration with the Egyptian Knowledge Bank, **17<sup>th</sup> February, 2021**.
- “Avoiding Plagiarism & Proper Citations using Mendeley” Researcher Academy on Campus, Elsevier Core Research Solutions, at Egyptian Knowledge Bank, **15<sup>th</sup> February, 2021**.
- “Exploring EBSCO Academic Search Complete Database” in partnership with Egyptian Knowledge Bank, **10<sup>th</sup> February 2021**.
- “Professional Manuscript Writing (V1): (3) Conclusions, Abstract, Title & References” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **8<sup>th</sup> February, 2021**.
- “Professional Peer-review (V2): (1) Professional co-authors peer-review” CABI online-platform webinar series in collaboration with the Egyptian Knowledge Bank, **15<sup>th</sup> February, 2021**.
- “Structuring a publishable paper “, Emerald publishing in collaboration with the Egyptian Knowledge Bank, **26<sup>th</sup> Jan, 2021**.
- Selecting Journals for Publishing using Scopus: CS Quartiles & more [90 minutes]. Researcher Academy On Campus, Elsevier Core Research Solutions, at Egyptian Knowledge Bank, **27<sup>th</sup> January, 2021**.

**Courses, Webinars  
and workshops  
(Cont.)**

- “Web of Science hands-on training”. Clarivate web of science in collaboration with the Egyptian Knowledge Bank, **27<sup>th</sup> January, 2021**.
- "Basics of Bioinformatics" Practical Course held at "Medical Experimental Research Center (MERC)", Faculty of Medicine, Mansoura University, (5<sup>th</sup> -7<sup>th</sup> February, 2019).
- “Preparing an Academic Teacher workshop” held at Mansoura University (31<sup>st</sup> May 2015- 4<sup>th</sup> June 2015)
- Course titled “Internal Audit for Technical Requirements of ISO 15189:2007”. Held in Medical Biochemistry Department, Faculty of Medicine, Mansoura University (September, 2014).
- Awareness of ISO 15189 Medical Laboratories Particular Requirements for quality and Competence, Faculty of Medicine, Mansoura University (March, 2013).
- “DNA polymorphism and bioinformatics” training courses hold in Department of Medical biochemistry and Molecular Biology, faculty of Medicine, Mansoura university from (9-14) /2/2013.
- Practical Course by "Continuous Medical Education Unit" titled "Updates in Diabetes, Obesity and Diabetic Foot" Held on 16<sup>th</sup> May 2011 in Mansoura Faculty of medicine.
- “Basic Techniques in Molecular Biology” training courses organized in Medical Biochemistry and Molecular Biology, Department, faculty of Medicine, Mansoura University from (27- 28<sup>th</sup>) /10/2010.

## Conferences attendance

- Mansoura Medical Biochemistry and Molecular Biology Department 5th Annual Conference “Unlocking the Secrets of Cancer” Advances in Molecular Biology and Medical Biochemistry, conducted on **16<sup>th</sup> October, 2024**
- Empowering Students in the Early Medical Years through Teaching and Learning. The 1<sup>st</sup> King Salman International University (KSIU) International Virtual Medical Education Conference in partnership with The Association for Medical Education in Europe (AMEE). Held on Thursday **23<sup>rd</sup> June 2022**.
- The 1st scientific conference of Medical Biochemistry Department, Faculty of Medicine, Mansoura University in collaboration with the Egyptian society of Biochemistry and Molecular Biology (ESBMB) titled: Medical Biochemistry and Molecular Biology: New Horizons in Environmental Promotion. Held on 14 february 2008
- The 2nd scientific conference of Medical Biochemistry Department, Faculty of Medicine, Mansoura University in collaboration with the Egyptian society of Biochemistry and Molecular Biology (ESBMB) titled: New Horizons in Medical Biochemistry and Molecular Biology. Held on 21<sup>st</sup> February, 2009.
- The Xth Annual Conference of Clinical Pathology Department "Clinical Pathology and Patient Care: A Cross Talk" from 29-30 April, 2009.

**Publication**

- **Aya A. El-Hanafy; Omar A. Ammar; Doaa A. El-Hanafy; Sherine Refat; Amr Sameer; Osama Bahy; Maha O. Hammad (2025): Long Non-Coding RNAs PCAT-1 and FENDRR: Diagnostic and Prognostic Potential in Papillary Thyroid Carcinoma.** World Journal of Surgical Oncology. Jun 4;23(1):218.
- Amaal A. Abulkhair, Dalia Shaalan, Muhamad M. A. Said, **Aya A. El-Hanafy (2025): IL-2RA rs2104286 gene Polymorphism among Egyptian population with Multiple Sclerosis: a case control study.** Bulletin of Egyptian Society for Physiological Sciences. 2025: 1-15.
- Omnia S. Erfan; Amira A.H. Ali; Ateya Megahed Ibrahim; Eman Hamza; **Aya A. El-Hanafy; Engy Risha; Nessma A. Nossier; Neimat Abd Elhakam Yassin; Rasha Hamed Al-Serwi; Mohamed El-Sherbiny; Ola A Habotta; Aml Mohamed Nada; Ehab K Ali; Madaniah Omar Zakari; Nehal M. Elsherbiny; Hany M. A. Sonpol. (2025): Roasted and green coffee protects against cardiac injury in diabetic rats: Modulation of VEGF, Caspase-3, and.** *Tissue and cell*, in press. D-25-00433
- Ola A. Habotta, Ahmed Abdeen, **Aya A. El-Hanafy**, Neimet Yassin, Dina Elgameel, Samah F. Ibrahim, Doaa Abdelrahaman, Tabinda Hasan, Florin Imbreia, Heba I. Ghamry, Liana Fericean, Ali Behairy, Ahmed M. Atwa, Afaf Abdelkader, Mohamed Refaat, Shaaban A. El-Mosallamy (2023): Sesquiterpene nootkatone counteracted the melamine-induced neurotoxicity via repressing of oxidative stress, inflammatory, and apoptotic trajectories. *Biomedicine & Pharmacotherapy*. 165, 115133.
- Riham Eid; Maha Abdelsalam; Aya Ahmed Fathy; Hadil Mohamed Aboelenin; Eman Bakr Elmarghany; **Aya A El-Hanafy**; Nashwa Hamdy; Dina Salama Abd Elmagid; Nermeen Ahmed Niazy; Dina Mahmoud Abdelghaffar (2023): Bone mineral density in Egyptian children with juvenile idiopathic arthritis: possible correlation to serum RANKL / osteoprotegerin (OPG) ratio and OPG gene polymorphisms. *Pediatr Rheumatol*.21, 58.
- Sara F Awwad , Raymonde H Assaf , Ahmed A Emam , Amgad A Fouad , Lamiaa F Arafa, **Aya A El-Hanafy (2023): NLRP3 Inflammasome Activation By 17 $\beta$ -estradiol as a Potential Therapeutic Target in Hepatocellular Carcinoma Treatment.** *Medical Oncology*, 40 (3), 94.

	<ul style="list-style-type: none"> <li>• Eid, R., Hammad, A., Abdelsalam, M., Fathy, A. A., Abd-El Ghafaar, D. M., Elmarghany, E. B., <b>El-Hanafy, A. A.</b>, Mostafa, N., Niazey, N. A., Korkor, M. S., &amp; Hamdy, N. (2021): <b>Tumor necrosis factor receptor II and PTPN22 genes polymorphisms and the risk of systemic lupus erythematosus in Egyptian children.</b> <i>Lupus</i>, 30(9), 1449–1458.</li> <li>• Eid, R., Abdelsalam, M., Fathy, A. A., Abd-El Ghaffar, D. M., Elmarghany, E. B., <b>El-Hanafy, A. A.</b>, Mostafa, N., Hamdy, N., Niazy, N. A., Hammad, A., &amp; Abolenein, H. M. (2021): <b>Predictors of decreased bone mineral density in childhood systemic lupus erythematosus: possible role of osteoprotegerin gene polymorphisms.</b> <i>Journal of pediatric endocrinology &amp; metabolism</i>, 35(1), 79–87.</li> <li>• <b>El-Hanafy A. A.</b>, Assaf R, Baiomy A, Shoma A, Abo El-khair S (2017): <b>Gene expression of autophagy related markers as prognostic biomarkers in breast cancer.</b> <i>Arab. J. Lab. Med.</i> 42(1): 301-314</li> </ul>
<b>Thesis supervision</b>	<ul style="list-style-type: none"> <li>• <b>PhD thesis</b> “Molecular study of inflammasome components in hepatocellular carcinogenesis”</li> <li>• <b>Master degree thesis</b> “Association of IL2RA and CTLA4 Genes Polymorphism with multiple sclerosis in Egyptian population”</li> </ul>
<b>Personal skills</b>	<ul style="list-style-type: none"> <li>• <b>Advanced IT and computer skills</b> : LMS, SIS, Mc Graw Hill, Microsoft teams, question bank generation, electronic exams generation.</li> <li>• Excellent communication skills</li> <li>• Effective presentation skills.</li> <li>• Creative Team Leadership.</li> <li>• Active team player, co-operative with team members.</li> <li>• Organize and prioritize workloads to meet targets and deadlines.</li> <li>• Responsibility and commitment in work.</li> <li>• Able to solve problems with self-motivation and able to motivate others.</li> </ul>
<b>Languages</b>	<ul style="list-style-type: none"> <li>✓ <b>Arabic:</b> Mother tongue.</li> <li>✓ <b>English:</b> Excellent</li> <li>✓ <b>German:</b> Beginner</li> </ul>

**Referees****1. Dr. Ayman Elbaz Elagroudy**

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**3. Dr. Noha Hazem:**

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