

## **Dr. Alaa Aboelnour Elmoursi Badran**

Assistant Professor of clinical pathology (Clinical microbiology & immunology)  
Faculty of Medicine - Mansoura University- Egypt

---

### **Summary**

Experienced and competent academic with MD in clinical pathology (clinical microbiology & immunology) and over 15+ years of combined experience in academia and scientific research. Accomplished Clinical Microbiologist and Quality Director with a leading diagnostic lab (PCR, NAT) and implementing ISO/CAP/GAHR/CBAHI accreditation standards. Proven success in molecular diagnostics, curriculum development, and ASM collaboration initiatives. Demonstrated success in academic leadership, healthcare quality systems, and cross-cultural team management.

---

### **Personal Information:**

Nationality: Egyptian  
Gender: Female  
Date of birth: 01 January 1980  
Cell Phone: (+2) 01117576066  
E-mail: alaaaboelnour@mans.edu.eg

---

### **Education:**

- 1. Professional Diploma in Healthcare Quality & Accreditation (HQA)**  
Badr University in Cairo - Egypt - October 2022
- 2. MD of Clinical pathology (Clinical microbiology & immunology)**  
Faculty of medicine - Clinical pathology department - Mansoura University- Egypt - April 2014
- 3. Master of clinical pathology (Clinical microbiology & immunology)**  
Faculty of medicine - Clinical pathology department - Mansoura University- Egypt - May 2009
- 4. Bachelor of Medicine and Surgery (MBBS) – (Excellent with first Grade of honors)**  
Faculty of medicine - Mansoura university - Egypt - November 2003

---

### **Professional Experience:**

- 1. Assistant Professor (Associate Professor) of Microbiology at Horus University- Egypt (HUE)**  
Faculty of Applied Health Sciences Technology - Egypt (Internal transfer - August 2024 to date).
- 2. Assistant Professor (Associate Professor) of clinical Pathology (Clinical Microbiology & Virology)**  
Faculty of medicine - Clinical pathology department - Mansoura University - Egypt - (March 2019 to date)
- 3. Assistant Professor of microbiology and virology (collaborator)**  
Faculty of medicine - Tabuk University-KSA – (9/2014 -7/ 2015)
- 4. Lecturer of Clinical Pathology (Clinical Microbiology & Virology)**  
Faculty of medicine - Clinical pathology department - Mansoura University - Egypt (30/5/2014 - 27/2/2019)
- 5. Assistant lecturer of Clinical Pathology (Clinical Microbiology & Virology)**  
Faculty of medicine - Clinical pathology department - Mansoura University - Egypt (28/9/2009 - 30/5/2014)
- 6. Demonstrator of Clinical Pathology**  
Faculty of medicine - Clinical pathology department - Mansoura university hospitals - Mansoura University- Egypt (28/2/2005 - 27/9/2009)
- 7. Intern doctor**  
Faculty of medicine - Mansoura university hospitals - Mansoura University - Egypt (1/3/2004 - 28/2/2005)

## **Teaching & Academic Experience:**

---

- **Clinical Microbiology & Virology**  
Faculty of medicine - Clinical pathology department - Mansoura University – Egypt
- **Microbiology & Virology**  
Horus University- Faculty of Applied Health Sciences Technology – Egypt
- **Medical Ethics**  
Horus University- Faculty of Applied Health Sciences Technology – Egypt
- **Total Quality Management (TQM) in healthcare**  
Horus University- Faculty of Applied Health Sciences Technology – Egypt
- **Microbiology & Virology**  
Faculty of medicine -Tabuk University-KSA **Principal of infection prevention and control**  
Faculty of medicine - Clinical pathology department - Mansoura University – Egypt
- **Patient centered culture Standards of GAHAR**  
Postgraduate diploma Port-Said faculty of medicine– Egypt
- **Using information technology y-based tools (Online E-learning platform) :**  
Microsoft Teams

## **Postgraduate Teaching Experience:**

---

- **Clinical microbiology and virology for medical students**  
Faculty of medicine - Clinical pathology / Pediatric/ Tropical medicine/ ENT departments - Mansoura University – Egypt
- **Clinical microbiology and virology for MSc students**  
Faculty of medicine - Clinical pathology
- **Healthcare quality and accreditations - Postgraduates' diploma**  
Faculty of Medicine – Port Said University- Egypt (July 2023 to date).
- **Saudi Health Diploma Program**  
Health Institute Graduates -KSA (2019)
- **Item Author writer & Reviewer for clinical pathology**  
Saudi Commission for HealthSpecialties (SCFHS) -KSA (April 2018 - July 2021)
- **American society of microbiology - Faculty advisor**  
In Faculty of medicine - Mansoura University - Egypt
- **Students' Academic advisor**  
Faculty of medicine - Mansoura University – Egypt
- **Supervise intern students**  
Faculty of medicine - Mansoura University – Egypt

## **Departmental and Academic experience**

---

- **Program coordinator and development**  
Clinical pathology - master's degree - Faculty of medicine – Mansoura University - Egypt (From 21/12/ 2022 to date).
- **Course curriculum developing**  
Clinical pathology department - master's degree - Faculty of medicine - MansouraUniversity - Egypt (From 21/12/ 2022 to date).
- **Academic Quality manager**  
Clinical pathology department - microbiology units - Faculty of medicine- Mansoura University -

Egypt (From July 2021 to date)

- **Member of Clinical Pathology departmental council**

## **Hospitals, and Laboratory Quality Accreditation experience**

---

- **Director of quality unit Mansoura Hospital**  
Faculty of medicine – Mansoura University- Egypt (9/2023 to date)
- **Coordinator of hospital quality Standard in universities labs,**  
In the Egyptian Supreme Council of Universities (from July 2022 to date)
- **Member of hospitals general quality committee of accreditation**  
Faculty of medicine – Mansoura University - Egypt (From 21/12/ 2022 till now)
- **Coordinator of Laboratory quality control and quality assurance**  
Clinical pathology - Faculty of medicine - Mansoura University (From July 2021 to date).
- **Member of the quality committee and improvement**  
Clinical pathology department laboratories - Faculty of medicine - Mansoura University (From July 2021 to date)
- **Member of the quality committee**  
King Khalid general hospital - Tabuk - KSA (February 2016 - March 2021)
- **Quality director in lab and blood bank**  
King Khalid general hospital - Tabuk -KSA (CBAHI Accredited) (from September 2016 to March 2021)
- **Item Author writer & Reviewer for clinical pathology**  
Saudi Commission for HealthSpecialties (SCFHS) - KSA (April 2018 - July 2021)

## **Laboratory Administrative Experience**

---

- **Lab Director of Mansoura hospital new centers**  
Faculty of medicine – Mansoura University- Egypt (July 2022 – July 2025)
- **Lab Medical director**  
King Khalid hospital lab – Tabuk - KSA (December 2020 to June 2021)
- **Section head of NAT and virology screening**  
King Khalid hospital lab – Tabuk - KSA (August 2017 to June 2021)
- **Section head of biochemistry**  
King Khalid lab hospital Tabuk - KSA (March 2018 to June 2021)
- **ISO Egycap survior**

## **Laboratory experience**

---

- **Molecular techniques:**  
PCR, Real-time PCR, RFLP, NAT Immunochemistry: ELSA, CMIA
- **Clinical microbiology and virology:**  
Blood culture by BACTec (aerobic and anaerobic) TB diagnosis by MGTA, Bactec TB, automated identification for bacteria (Micro-scan) (VITEC)
- **Virology**  
Screening/confirmation testing, BACTEC TB culture
- **Clinical chemistry:**  
Routine test, hormones, serology, ELISA tumor marker protein electrophoresis,

using automated system as VIDASE/ Eleccasas immune electrophoresis

- **Clinical hematology and hemostasis**
- **Validation & verification** of both the quantitative and qualitative test

## Skills

---

- University Teaching
- Classroom management/supervision.
- Academic advising & guidance
- Curriculum design
- A high-quality research productivity
- Scientific Research
- Peer reviewing
- Administrative management
- Healthcare quality assurance and accreditation
- Proficiency in using information Technology
- Laboratory technical work
- Effective teamwork and collaboration with colleagues.
- Interpersonal, responsibilities and communication skills
- Ability to work in a multi-cultural environment.
- Continuous professional development
- Professional in spoken and written Arabic
- Professional in written and spoken English

## Training courses

---

- Credit hours System in teaching - Faculty and Leadership Development Program (FLDP) – Mansoura University - Egypt – 2024 (10 credit hours)
- Scientific paper writing- Faculty and Leadership Development Program (FLDP) -Mansoura University Egypt – From 24 To 25/8/2020 - 10 credit hours.
- Using of technology in teaching- Faculty and Leadership Development Program (FLDP) -Mansoura university Egypt – From 5 To 6/8/2020 - 10 credit hours.
- QUALITY PROGRAM (2021) (8 hours of CME) - Tabuk -KSA
- CPHQ (2021) - Tabuk -KSA
- Item writing in MCQ (2020) - Tabuk -KSA
- POCT (2019) - Tabuk -KSA
- NAT in virology (2019) - Tabuk -KSA
- Validation& verification in lab (2019) - Tabuk -KSA
- Research Ethics (IRB) (2018) - Universityof Tabuk - Tabuk -KSA
- Quality Standards in the education process (2014) - FLDP – Mansoura University - Egypt
- E-learning (2014) - FLDP – Mansoura University - Egypt
- Scientific writing (2013) - FLDP – Mansoura University - Egypt
- University legal and financial aspects (2012) - FLDP – Mansoura University - Egypt
- Research team management (2012) - FLDP – Mansoura University - Egypt
- International publishing (2011) - FLDP – Mansoura University - Egypt
- Crisis Management in Higher Education Institutions (2010) - FLDP – Mansoura University - Egypt
- Conference organization (2010) - FLDP – Mansoura University - Egypt
- Student assessment (2010) - FLDP – Mansoura University - Egypt
- Use of Technology in Teaching (2007) - FLDP – Mansoura University - Egypt
- Profession Ethics (2007) - FLDP – Mansoura University - Egypt
- Principles of Research and Proposal Writing (2007) - FLDP – Mansoura University - Egypt

- New teaching Methods (2007) - FLDP – Mansoura University - Egypt
- Effective Presentation Skills (2007) - FLDP – Mansoura University - Egypt
- Development of Administrative Skills(2007) - FLDP – Mansoura University - Egypt
- Decision Making and Problem Solving (2007) - FLDP – Mansoura University - Egypt
- Data Analysis and Scientific Writing(2007) - FLDP – Mansoura University - Egypt
- Teaching Skills (2006) - FLDP – Mansoura University - Egypt
- Research Methodology (2006) - FLDP – Mansoura University - Egypt
- Communication Skills (2006) - FLDP – Mansoura University - Egypt

## **Professional Membership**

---

- **Global Burden of Diseases (GBD) Collaborator Network**  
University of Washington - School of Medicine, - since 9/9/ 2024
- **American Society of Microbiology (ASM)** - Young Ambassador of ASM in Egypt - May 2024 to date
- **The Egyptian Society for Healthcare Quality Accreditation (ESQUA)** - October 2021 to date
- **International Society for infectious diseases** - June 2014 to date

## **Professional License**

---

- **Egyptian Society for Laboratory Medicine (Microbiology)** - 2009 to date
- **Egyptian Medical Syndicate** - 2005 to date
- **Consultant at Saudi Commission for Health specialists** (no 18-T-M-00173 in 12/10/2018)
- **Consultant of Clinical Pathology (microbiology)** - Egyptian Ministry of Health (no. 6562 in 3/2013)
- **license of medicine practice-** Egyptian Ministry of Health (no.:166007 in 14/3/2005).

## **Webinars & Oral presentations**

---

- Speaker at Damietta faculty of medicine conference (quality and accreditation crossing the gabs) (Best practice towards lab quality) September 2022
- Speaker at Clinical Pathology Department Mansoura Faculty of Medicine conference Crossing bridges between lab and clinical practice (4-5 /3/2022)
- Speaker in the webinar in collaboration with the American Society of Medical Microbiology (ASM)(Quality control & Quality assurance in Microbiology LAB) December 2021

## **Conferences/ Workshops Participation**

---

- First University hospitals Conference Sponsored by the Supreme Council of Universities 29 April 2025 (Ain Shams university).
- The second forum for faculties of applied health sciences in Cairo (5/2025).
- The international conference of American Society of Microbiology (ASM) – Atlanta - USA – (12-18 June 2024)
- The 24<sup>th</sup> Annual Scientific Conference of Clinical Pathology Department - Mansoura Faculty of Medicine -May2024)
- The 29<sup>th</sup> international conference of the Egyptian Society of medical microbiology (ESMM)in association with the American society for microbiology 2,3 September 2022
- 12<sup>th</sup> Annual Scientific Conference Clinical Pathology Department (Clinical Pathologyand Patient Care) NEW TRENDS IN CLINICAL LAB QUALITY (Mansoura Facultyof Medicine – 29-30 April 2017)
- The 14<sup>th</sup> Egyptian French Seminar of Immunology & Molecular biology – 2014
- The 1<sup>st</sup> Egyptian- German Seminar of Immunohematology (Regenerative Medicine – CORDBLOOD) (Mansoura Faculty Of Medicine – 4-5 /3/2014)
- The 25<sup>th</sup> Annual Congress of Pediatric Department (Hematological& endocrinal manifestations of

- systemic diseases) (Mansoura Faculty Of Medicine – 29-30/1/ 2012)
- The 5<sup>th</sup> Annual Scientific Conference of Medical Physiology Department (Recent approaches in obesity) (Mansoura Faculty of Medicine – 5 April 2011)
  - Annual Scientific Conference of Faculty of Medicine Mansoura University (Quality and Institutional Accreditation) (Mansoura Faculty of Medicine – 6 November 2010)
  - Workshop of Management of Polytraumatized patients (Emergency Hospital and GIT centre Mansoura university - 4 October 2010)
  - The 13<sup>th</sup> Egyptian French Seminar of Immunology & Molecular biology - The 1st Egyptian- German Seminar of Immunohematology (Regenerative Medicine – CORDBLOOD) (Mansoura Faculty of Medicine – 4-5 March 2010)
  - The 10<sup>th</sup> Annual Scientific Conference Clinical Pathology Department (Clinical Pathology and Patientcare: A Cross Talk) (Mansoura Faculty of Medicine – 29-30 April 2009)
  - The 3<sup>rd</sup> Annual Scientific Conference of Medical Physiology Department (The New Advances in Physiology) (Mansoura Faculty of Medicine – 5 April 2009)
  - The 4<sup>th</sup> Annual Conference of the Clinical Pathology Department (Clinical Pathology Update) Assiut Faculty Of Medicine – 17-18 February 2009)
  - Stem Cell between Dream and Reality (Benha Faculty of Medicine April 2-3 ,2008)
  - The 9<sup>th</sup> Annual Scientific Conference of Clinical Pathology Department (Laboratory Imprints for Early Diagnosis) (Mansoura Faculty of Medicine -7-8 May 2008)
  - The 1<sup>st</sup> Scientific Conference of Medical Biochemistry Department (In Collaboration with the Egyptian Society of Biochemistry and Molecular Biology) (Mansoura Faculty of Medicine – 14 February 2008)
  - The 11<sup>th</sup> International Egyptian French Seminar & Workshop on Immunology & Molecular Biology "Stem Cell Therapy" (Mansoura Faculty of Medicine - 8 November 2007)
  - Annual Scientific Conference of the Orthopedic and Traumatology Department (Mansoura Faculty of Medicine - October 24, 2002)

### **Scientific Research Publications**

---

1. Global, regional, and national prevalence of child and adolescent overweight and obesity, 1990-2021, with forecasts to 2050: a forecasting study for the Global Burden of Disease Study 202 - The lancet 2025
2. Incidence of Extended Spectrum  $\beta$ -Lactamase Genes (ESBLs) among community and health care infection in Mansoura University Hospital, Egypt - BMC Microbiology 2025
3. Infection Control Knowledge, Attitude and Practice among Healthcare Workers in Mansoura University Hospitals, Egypt Quality Improvement Project Egyptian Journal of Medical Microbiology - 2025
4. The Impact of Multisystem Inflammatory Syndrome in Children Associated with COVID-19, Egyptian Journal of Medical Microbiolog - 2025
5. Tim-3-immune Checkpoint Receptor Expression on CD4+ and CD8+ T cells and Rheumatoid Arthritis Disease Activity - Egyptian Journal of Medical Microbiology – 2025
6. Pathogenomics analysis of high-risk clone ST147 multidrug-resistant *Klebsiella pneumoniae* isolated from a patient in Egypt - BMC microbiology 2024
7. Macrolides and Lincosamides-Resistant Staphylococci Isolated from Healthcare-Associated Illnesses, Mansoura University Hospitals: Phenotypic and Genotypic Characterization The Egyptian Journal of Hospital Medicine (October 2023) Vol. 93, Page 7459- 7466
8. Genetic polymorphisms of interleukin-16 in Egyptian patients with primary knee osteoarthritis Egyptian Rheumatology and Rehabilitation, Springer (2023) (Impact factor: 0.28)
9. Preclinical study for the ameliorating effect of L-ascorbic acid for the oxidative stress of chronic administration of organic nitrates on myocardial tissue in high sucrose/fat rat model, Saudi

- Pharmaceutical Journal, July 2022. (Impact factor: 4.56)
10. Colistin-Resistance Gene *mcr-1* in Isolated *E. coli* Bacteria from Hospital Acquired Infection in Egypt Research Journal of Pharmaceutical, Biological and Chemical Sciences: 2022
  11. COVID-19 outbreak: Genomic Characteristics, Epidemiology, Pathogenicity and Therapeutic Modalities in Contrast With SARS-CoV and MERS-CoV'. Vol. 73 (no 8, Year 2020) ARCTIC Journal (Impact Factor 1.54).
  12. Iron Replacement Therapy in HCV infected ESRD Patients on Hemodialysis, in need or not in need? is accepted to be published in Vol. 72 (no 12, Year 2019) of ARCTIC Journal (Impact Factor 1.54)
  13. Phenotypic and genotypic identification of *Staphylococcus aureus* resistant to clindamycin in Mansoura University Children Hospital, Egypt. African Journal of Clinical and Experimental Microbiology Vol 21, No 1 (2020)
  14. Molecular Study of Vancomycin Resistance in Hospital Acquired *Staphylococcus* Infection (International Journal of Drug Development and Research- August 19, 2019)
  15. Safety and Efficacy of Caffeine versus Diazepam on Recovery of Suppressed Hypothalamo-Pituitary-Adrenocortical Axis by Prednisolone Therapy. (Research Journal of Pharmaceutical, Biological and Chemical Sciences) (volume 10 issue 3-2019)
  16. Endocrinal dysfunction of Hypothalamo- Pituitary-Gonadal Axis in seminal plasma of Cigarette Smoking Males. Research Journal of Pharmaceutical, Biological and Chemical Sciences -2015
  17. Molecular Study of Intracellular Adhesion Genes (*ica*) and Fibronectin binding protein Genes (*FnB*) in Clinical Isolates of *Staphylococcus aureus* Isolated from Patients under Chemotherapy (International Journal of Drug Development and Research) Volume 10(4): 8-12 (2018)-08)
  18. GyrA Mutations in Nosocomial Ciprofloxacin-Resistant *Escherichia coli* Isolates Associated with Urinary Tract Infections (International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 6 Number 2 (2017))
  19. Molecular diagnosis of diarrhoeagenic *Escherichia coli* associated with Hospital Acquired Diarrhea in Mansoura University Children hospital (Journal of Advances in Medicine-2014)
  20. Recent trends in stem cell biotechnology (The Arab Journal of Laboratory Medicine -2010)

## Grants & Funds

---

- Academy of Scientific Research and Technology-Egypt "Biodiversity of antibiotic resistance gene in Mansoura university -2022

## Supervise graduation research

---

Postgraduate theses (master's and Ph.D.) students

## Review of journal papers

---

- The Journal of Infection in Developing Countries
- Asian Journal of Pharmaceutical and Clinical Research
- Indian Journal of medical research
- International Journal of Drug Development and Research
- Research committee in Tabuk university
- Item author reviewer in Saudi commission for health specialties

## **Community service**

---

- **Antibiotic awareness day (In collaboration with American Society for Microbiology- ASM)**  
Mansourahospital – Faculty of medicine - Mansoura University Egypt (19/10/2024 to 21/11/2024)
- **Antibiotic awareness day (In collaboration with American Society for Microbiology- ASM)**  
Mansourahospital – Faculty of medicine - Mansoura University Egypt (19/10/2023 to 21/11/2023)
- **Antibiotic awareness day (In collaboration with American Society for Microbiology- ASM)**  
Mansourahospital – Faculty of medicine Mansoura University Egypt (19/10/2022 to 21/11/2022)