

# Mohamed Attya Serour

Senior Scientist, Clinical BioChemistry

High skilled Senior Scientist with over 10 years of experience in analytical and clinical biochemistry around different countries (Italy, The Netherlands, Saudi Arabia), along with Ph.D. from Calabria University, Italy. Expertise in most of analytical techniques including, real-time PCR, Electrophoresis, ELISA, chromatography-Mass Spectrometry and Immunoassay tests with proven experience in method development and validation. Extremely knowledgeable in overall laboratory function, maintenance, Good Laboratory Practice, safety practices, and quality assurance.

## ➤ SKILLS

- ❖ PCR, real-time PCR assays (RT PCR)
- ❖ Electrophoresis, ELISA, Cell Culture
- ❖ RNA Extraction, DNA Extraction, cDNA Library Preparation
- ❖ Liquid chromatography-Mass Spectrometry (HPLC, LC-MS/MS)
- ❖ Gas Chromatography -Mass Spectrometry (GC-MS/MS)
- ❖ Inductively Coupled Plasma and Atomic Absorption (ICP-MS,AA)
- ❖ Method development and validation
- ❖ Extraction, Separation, and purification techniques
- ❖ Clinical Chemistry and Immunoassay Testing
- ❖ People management and coaching
- ❖ Laboratory setup
- ❖ Project design and management

## ➤ WORK HISTORY

- ❖ Sep 2012 - Aug 2019 Senior Scientist and Supervisor of Special Chemistry Lab,  
*King Khalid University Hospital, Riyadh, Saudi Arabia*
  - **Method Development and Validation**
    - Developed, transferred and validated state-of-the-art analytical methods for more than 60 tests in body fluids, using RT-PCR, LC-MS/MS, GC-MS/MS, and ICP-MS Instruments.
    - Implementation of the newborn screening programme

- **Laboratory Operation and Management**
- Built-up and supervised a team of 14 staff members in high throughput laboratory (8000 samples monthly), and was able to create and maintain the environment in which employees can devote the whole of their efforts heatedly to the objectives of the services
- Set up the special chemistry laboratory and promoted professional and organizational development
- Simultaneously managed several complex projects, meeting all pertinent milestones
- Trained and assisted personnel in the proper implementation and operation of procedures
- Drew up protocols, work reports, analytical methods, statistics, product specifications, and SOPs
- Maintain, calibrate and troubleshoot laboratory instruments.
- Interpreted test results and developed nonstandard tests
  - **Quality Assurance**
- Implemented the highest quality and safety measurements ensured by maintaining the College of American Pathology (CAP) accreditation for 7 years
- Verified and approved quality control and external proficiency reports
- ❖ **Apr 2010 - Aug 2012 Post-Doctor Fellowship, University Of Calabria, Cosenza, Italy**
  - Developed and validated 11 new methodologies using LC-MS/MS, for the determination of molecules with biological activity in food, beverages, and biological fluids
  - Developed new synthetic methods for 11 compounds
  - Conducted several research projects in different scientific fields, including analytical, organic, clinical, and food chemistry
  - Authored professional scientific papers for publishing in peer-reviewed journals Publications

## ➤ EDUCATION

- ❖ **Oct 2006 - Dec 2009 Ph.D.: Analytical and Organic Chemistry,**  
*University of Calabria - Cosenza, Italy-  
Wageningen University & Research, Wageningen, The Netherlands*
- ❖ **Sep 1998 - May 2002 Bachelor of Science: Chemistry**  
*Alexandria University - Alexandria, Egypt*

## ➤ LANGUAGES

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|------------|----------|
| ❖ English  | Superior |
| ❖ Italian  | Superior |
| ❖ Romanian | Advanced |
| ❖ Arabic   | Native   |