**Sebaey Mahgoub, PHD**

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**SHORT BIOGRAPHY:**

Presently, I work as a senior research associate and lab manager at the proteomics and metabolomics research lab, basic research unit, Children’s Cancer Hospital 57357, Egypt. I received my PhD in organic chemistry from Zagazig University in April 2020. I’m a qualified and experienced organic chemist specializing in organic synthesis, spectrometry, spectroscopy, microanalysis, and gas and liquid chromatography. Published multiple journal articles as the primary and co-author. I have more than ten years of working experience and I am exposed to excellent opportunities concerning research and laboratory-based environments. I have also gained valuable understanding and have developed the necessary skills to manage, lead and collaborate effectively with different people.

**EDUCATION**:

**PhD in Organic Chemistry:** Zagazig University, Egypt. **April 2020**

*Thesis: "* *Synthesis and Reactions of Some Quinolone Derivatives."*

*Supervisor:* **Prof. Dr. Atef M. Amer**

**Master of Science in Organic Chemistry:** Zagazig University, Egypt. **October 2013**

*Thesis: "* *Synthesis and Biological Evaluation of Some New Pyridazine Derivatives."*

*Supervisor:* **Prof. Dr. Ali Deeb**

**Higher Diploma of Biochemistry and physiology:** Suez Canal University, Egypt. **August 2008**

**Bachelor of Science in Chemistry:** Department of Chemistry, Zagazig University. **July 2004**

**Appointment History:**

**Senior research Associate and Lab Manager May 2019 – Current**

Proteomics and Metabolomics Research Lab, Children’s Cancer Hospital (CCHE) 57357, Egypt

**Stability & Methodology Section Head June 2013 – May 2019**

Unipharma for pharmaceutical Industries, El Obour City, Egypt.

**Senior Chemist and Supervisor September 2009 - May 2013**

Deltapharma for pharmaceutical industries, 10th of Ramadan City, Egypt.

**EXPERIENCE:**

**Senior Research Associate and Lab Manager CCHE 57357, Egypt May 2019 – Current**

* Operating, maintaining, and troubleshooting two of the world’s top-notch LC-MS/MS systems (AB Sciex Triple TOF 5600+ and Thermo Scientific Orbitrap Fusion Lumos Tribrid).
* Developing and validating novel LC-MS/MS methods, including IDA and DDA experiments for both proteomics and metabolomics workflows.
* Participation in performing targeted and non-targeted screening, identification, and quantitation of metabolomics using MS-DIAL, PeakView, and MasterView software.
* Proteomics spectral data analysis for protein and peptide identification, as well as metabolites and small molecule structure identification using Proteome Discoverer and Compound Discoverer software, respectively.
* Assists Unit head in planning for technical facilities and systems and their budget.
* Manages procurement of equipment including submitting requisitions, follow-up, and receiving of requested equipment and supplies, and recommends equipment by highlighting their advantages over others.
* Establishes and maintains links with vendors of equipment, supplies, and technical services.
* Competently translates and validates methodologies from peer-reviewed literature to practical applications.
* Develops and maintains laboratory Standard Operating Procedures (SOP) and ensuring quality documentation and data handling.
* Develops the strategic agenda and key performance indicators (KPIs) for laboratory performance in coordination with the lab head.
* Participates in hiring and training of laboratory technicians and ensures competency of staff.
* Participates in training of PhD students and postdoctoral fellows and may be involved in sample collection and testing.
* Participation in individual research projects, e.g. the detailed experimental design
* Ensures functional operation of the equipment, directs, and implements effective safety and risk control processes.
* Controls costs by monitoring personnel utilization, material usage rates, analyzing fluctuations in types and volumes of tests, and implementing corrective action.
* Supports, consults, and participates with facility and regional quality assurance programs to ensure internal and external regulatory compliance and with an eye towards laboratory national and international accreditation certification.
* Participates in department, inter-department, and inter-facility projects which help the department achieves its goals of providing quality service and research support in a cost-effective manner
* Interfaces with the unit head to implement and monitor an internal and external complaint/incident program.

**Stability & Methodology Section Head**

**Unipharma for pharmaceutical Industries, El Obour City, Egypt. June 2013 – May 2019**

* Stability monitoring of new drug product formulae.
* Conducting stability study protocols according to ICH and MOH requirements (Accelerated and long-term stability study) for all dosage forms.
* Designing, developing, validating, and implementing stability indicating analysis methods.
* Planning and establishing work schedules, assignments, and analysis sequences, to meet the department goals.
* Conducting a full in-vitro comparison study of our products versus brand products to assess their similarity to that of the patent and improve its performance.
* Responsible for HPLC to UPLC method transfer.
* Headspace Gas Chromatography senior analyst.
* Instruments purchasing and maintenance advisor.
* Maintain a high level of professional expertise through my familiarity with scientific literature, pharmacopeias, and ICH guidelines.

**Senior Chemist and Supervisor**

**Deltapharma for pharmaceutical industries, 10th of Ramadan City, Egypt. Sep 2009 - May 2013**

* Analyzing raw materials and packaging materials.
* Purified Water and Water for Injection routine analysis.
* Validation of the water purification system.
* Analyzing in-process and finished product samples.
* Supports methodology unit in finding methods of analysis for new raw materials and products either by HPLC or GC or derivatization techniques.
* Responsible for setting all instruments and preparing all work instructions in use, internal and external calibration of all laboratory instruments as well as maintenance of laboratory instruments internally and externally.
* Monitoring all instruments, chemicals, glassware, and other tools used for checking the products.
* Following up the implementation of corrective and preventive actions for cases of nonconformity of the quality management system.
* Provide all reports showing and measuring the performance of quality.
* Prepare all training programs for newly recruited members concerning Quality Management System.
* Preparing all ISO17025 documentation according to Quality Management System.
* Laboratory documentation including records for laboratory procedures, protocols, technical procedures, training & employees records, and instrument qualification documentations.
* Responsible for record-keeping and ensuring that up-to-date document is being used and that obsolete documents are removed from use.
* Advises the purchasing section regarding the quality of purchased chemical reagents, glassware, and equipment as well as purchasing orders following up.
* Keeps copies of all purchase orders for testing equipment or materials, chemicals, and reagents to review such orders to ensure that the latest requirements are correctly specified.
* Developing inventory for monitoring chemical reagents, glassware, and spare parts stock and demand.

**PUBLICATIONS:**

***Papers in Preparation/Submission:***

* Farag, H.S., Daabees, H.G., Talaat, W., **Mahgoub, S.,** Ahmed, H. M. “Simultaneous Analysis of Sofosbuvir and Ledipasvir in Plasma and Tablet Dosage Form Using RP-HPLC”.
* Mohamed S. Nafie, Safaa M. Kishk, **Sebaey Mahgoub**, and Atef M. Amer. “Quinoline-based thiazolidinone derivatives as potent cytotoxic and apoptosis-inducing agents through EGFR inhibition against colon cancer”

***Journal Papers:***

## Anwar, A. M., Ahmed, E. A., Soudy, M., Osama, A., Ezzeldin, S., Tanios, A., Mahgoub, S., Magdeldin, S. (2021). “Xconnector: Retrieving and visualizing metabolites and pathways information from various database resources”, *Journal of Proteomics*, 245, 104302.

## Mohammed, H.A.; Khan, R.A.; Abdel-Hafez, A.A.; Abdel-Aziz, M.; Ahmed, E.; Enany, S.; Mahgoub, S.; Al-Rugaie, O.; Alsharidah, M.; Aly, M.S.A.; Mehany, A.B.M.; Hegazy, M.M.(2021) “Phytochemical Profiling, In Vitro and In Silico Anti-Microbial and Anti-Cancer Activity Evaluations and Staph GyraseB and *h*-TOP-IIβ Receptor-Docking Studies of Major Constituents of *Zygophyllum coccineum* L. Aqueous-Ethanolic Extract and Its Subsequent Fractions: An Approach to Validate Traditional Phytomedicinal Knowledge”. *Molecules*, *26*, 577.

## Nafie, M. S., Mahgoub, S., Amer, A. M. (2021). “Antimicrobial and antiproliferative activities of novel synthesized 6-(quinolin-2-ylthio) pyridine derivatives with molecular docking study as multi-targeted JAK2/STAT3 inhibitors”. *Chemical Biology and Drug Design*. 97:553–564.

## Soudy, M., Anwar, A. M., Ahmed, E. A., Osama, A., Ezzeldin, S., Mahgoub, S., Magdeldin, S. (2020). “UniprotR: Retrieving and visualizing protein sequence and functional information from Universal Protein Resource (UniProt knowledgebase)”, *Journal of Proteomics*, 213, 03613.

## Amer, A., El-Eraky, W., Mahgoub, S. (2018). 'Synthesis, Characterization and Antimicrobial Activity of Some Novel Quinoline Derivatives Bearing Pyrazole and Pyridine Moieties', *Egyptian Journal of Chemistry*, 61(Conference issue), pp. 1-8.

## Amer, A., Ramses, N., Mahgoub, S. (2018). 'Synthesis, Reactions and Antitumor Activity of Certain 1,3-diphenylpyrazole-4-carboxaldehyde Derivatives', *Egyptian Journal of Chemistry*, 61(Conference issue), pp. 51-65.

## Amer, A., Deeb, A., El-Eraky, W., El Awdan, S., Mahgoub, S. (2018). 'Synthesis, Characterization and Evaluation of Anti-inflammatory and Analgesic Activity of Some Novel Quinoline Based Thiazolidinone Heterocycles', *Egyptian Journal of Chemistry*, 61(Conference issue), pp. 67-77.

## [Mahgoub](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) S. (2017). Validated RP-HPLC Method for Identification and Simultaneous Quantitation of Calcium Gluconate and Calcium Phospholactate in Combined Dosage Form, *Annals of Chromatography and Separation Techniques,* 3(1): 1028.

* [**Mahgoub**](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) **S.** (2017). Validated RP-HPLC Method for Quantitative Determination of Tolfenamic Acid and Benzyl Alcohol in a Veterinary Pharmaceutical Preparation, ***Austin Chromatography****. 2017; 4(1): 1046*
* [**Mahgoub**](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) **S.** (2016). Novel Stability-Indicating RP-HPLC Method for determination of Hydrochlorothiazide, Amiloride Hydrochloride and Timolol Maleate in Tablet dosage form. ***American Journal of Modern Chromatography***3 (1) 23–32.
* [Deeb](http://link.springer.com/search?facet-author=%22Ali+Deeb%22) A., [El-Eraky](http://link.springer.com/search?facet-author=%22Wafaa+El-Eraky%22) W., [**Mahgoub**](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) **S.** (2015). [Pyridazine And its Related Compounds, Part 35.](http://link.springer.com/article/10.1007/s00044-013-0605-5) Synthesis and Antimicrobial Activity of Some Pyridazine and Triazolo- pyridazine Containing Sulfonamides. ***European Journal of Chemistry*** 6 (1) 88–92.
* [Deeb](http://link.springer.com/search?facet-author=%22Ali+Deeb%22) A., [**Mahgoub**](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) **S.** (2014). [Pyridazine And its Related Compounds, Part 36.](http://link.springer.com/article/10.1007/s00044-013-0605-5)  Synthesis and Antimicrobial Activity of Some Novel Pyrimido- [4',5':4,5] thieno[2,3-c]pyridazine Derivatives. [***Medicinal Chemistry Research***](http://link.springer.com/journal/44) 23:4559–4569.
* [Deeb](http://link.springer.com/search?facet-author=%22Ali+Deeb%22) A., [El-Eraky](http://link.springer.com/search?facet-author=%22Wafaa+El-Eraky%22) W., [El-Awdan](http://link.springer.com/search?facet-author=%22Sally+El-Awdan%22) S. [**Mahgoub**](http://link.springer.com/search?facet-author=%22Sebaey+Mahgoub%22) **S.** (2014). [Pyridazine And its Related Compounds, Part 34. Hypoglycemic and Hypolipidemic Activity of Some Novel Condensed Pyridazine Sulfonamides](http://link.springer.com/article/10.1007/s00044-013-0605-5). [***Medicinal Chemistry Research***](http://link.springer.com/journal/44) 23:34–41.

**HONORS, SCHOLARSHIPS & GRANTS:**

* Academy of Scientific Research and Technology (ASRT), Egypt: grant for master’s degree, titled “Synthesis of Biologically Active Organic Compounds”. 2006 – 2009
* Zagazig University, Egypt: funded research project, titled “Synthesis and Evaluation of Some Sulfonylureas as Novel Anti-Diabetic Drugs”. 2009 – 2012

**SELF-LEARNING and PROFESSIONAL DEVELOPMENT:**

***On-site Courses:***

* ISO/IEC 17025 - Testing and calibration laboratories May 2020
* Good Laboratory Practices June 2012
* Quality risk management June 2012
* Qualifying Laboratory Instruments June 2012
* Clean Room Technology Feb 2011
* FT-IR Spectrometer Software Package Aug 2010
* Near I.R Spectroscopy & Chemometrics Oct 2009
* Good Laboratory Practices Sep 2009

***Online Completed Courses:***

* Metabolomics: Understanding Metabolism in the 21st Century: **University of Birmingham**
* Honor code certificate for basic steps in magnetic resonance: [**École Polytechnique Fédérale de Lausanne**](https://en.wikipedia.org/wiki/%C3%89cole_Polytechnique_F%C3%A9d%C3%A9rale_de_Lausanne)**, Switzerland.**
* Honor code certificate for the chemistry of life: [**Kyoto University**](http://www.kyoto-u.ac.jp/en)**, Japan.**
* Honor code certificate for the immune system: [**Osaka University**](http://www.osaka-u.ac.jp/)**, Japan**
* Honor code certificate for essential human biology: **Adelaide** [**University**](http://eleceng.adelaide.edu.au/)**, Australia**
* Honor code certificate for effects of radiation: **Hokkaido University, Japan**
* Honor code certificate for water and wastewater treatment engineering: physicochemical technology: **Tsinghua University, China**

**TECHNICAL & EXPERIMENTAL SKILLS**

- High competence in synthetic organic chemistry, synthesis route design, function group transformation, products purifications, and structure analysis and characterization through coordination of multiple techniques as Preparative Thin layer chromatography, Column, and flash Chromatography, Preparative HPLC, LC-MS/MS, and GC-MS/MS, 1H-NMR and 13CNMR, IR and FTIR.

- Design & Apparatus Set-up for Synthesis of compounds (organic and inorganic).

- High level of expertise with downstream chemical work such as natural product fractionation, isolation by chromatography, and structure elucidation.

- Professional user of specialized software such as ChemBio Office & Chem Sketch and any software installed on computerized instruments and machines.