



Dr. Mohamed A Elahmar,

Head of the Performance Evaluation  
Department at the Center and a  
researcher in the Medicinal Plants Unit

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#### Academic Platforms

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Experienced researcher in analytical chemistry and medicinal plant chemistry with over 20 years in food analysis, mycotoxins, and bioactive compound extraction. Worked at the Industrial Research Center (2004–2005) and Libyan Biotechnology Research Center since 2005. Holds a Master's from Bangor University (2010) and a PhD from Metropolitan University, Serbia (2020). Awarded a patent in 2018 and published multiple scientific papers. Research focuses on isolating bioactive plant compounds, improving crop quality through agricultural treatments, studying biological activities for therapeutic applications, and promoting sustainable practices in natural resource conservation.

#### Research Interests

- Isolation and analysis of bioactive compounds from medicinal plants.
- Improving crop quality through innovative and sustainable agricultural treatments.
- Studying the biological activities of natural compounds for therapeutic and pharmaceutical applications.
- Developing efficient extraction and analytical techniques for bioactive compounds.
- Investigating mycotoxins and their impact on food safety.
- Promoting sustainable practices in natural resource conservation and environmental protection.
- Developing and applying modern analytical chemical methods in food and natural product analysis.

#### Publications

1. M. Elahmar; M.S. Baird; J.R. Al-Dulayymi: Can we find a use for chemicals from gorse, Conference- Plants as Providers of Fine Chemicals, School of Chemistry, Bangor University, Bangor, Gwynedd, LL57 2DW, August 2012.
2. M. Elahmar; M.S. Baird; J.R. Al-Dulayymi, Y. Zaitouni: Preparing Intermediates for the Synthesis of Mycolic Acids, VI National Conference of Biotechnology, University of Misurata, Libya, 2013.
3. S. A. Tweib; A. Y. A. Alhaj; M. A. Elahmar, F. A. Abdussamad; A. M. Fellah. Effective Treatment of Industrial Effluent by Using Biofilm Reactors American Journal of Biomedical Science and Engineering; 3(1): 1-7, 2017.
4. Hagir M Salih; Rabya A. Lahmer; M. Elahmar: Effect of addition of Tertiary Butyl Hydro Quinon (TBHQ) and Vitamin E antioxidants on the stability of sun flower and olein oil before and after frying. Journal of Biosciences and Medicines, 2017.
5. Hagir M Salih; Rabya A. Lahmer; M. Elahmar; Fouad Al-Nuaimi: Manufacture and production of a soft drink flavored from Dates treacle. A patent from the Industrial Research Center, Tripoli, Libya, 01/2021
6. A. A. Zawia, L. Neseef, M. A. Elahmar, A. A. Andjelkovic, S. B Djurovic, D. M. Pavlovic, 2021. Fluorescence and chlorophyll content as indicators of the efficacy of plant extracts of *Ambrosia artemisiifolia* and *Sorghum halepense* in weed control. Journal of Fresenius Environmental Bulletin. Volume 30– No. 01/2021 pages 707-715.
7. Mohamed Elahmar, Layth Neseef, Alsadeh Zawia, Rabya Lahmer, Ana Andjelkovic, Sanja Djurovic, Danijela Pavlovic, 2022, the effect of plant extracts on shikimic pathway in weeds *avena fatua* *bromus rigidus* and *convulvulus arvensis* in wheat Volume 31- No. 02/2022 pages 2250-2258.
8. Hussein Habeeb Mustafa, Mohamed A. Ibrahim Elahmar, Rwoaa Tareq Hameed Mohammed Alsultan, Layth Neseef and Gerhard F. Swiegers, 2022. Extraction and Identification of Effective Compounds from Natural Plants. Journal of Composites Science. 2022, 6, 149.
9. Ali F. Alynad, Nenad R. Trkulja, Sanja B. Đurović, Snežana M. Janković, Mohamed A. Elahmar, Layth Neseef and Danijela M. Šikuljak, 2023, effects of fertilizer treatment on the polyphenol content in maize and velvetleaf competition Journal of Agricultural Sciences (Belgrade) Volume. 68, No. 4, 2023 Pages 389-401.
10. Elmundr Abughnia, Mohamed Elahmar, Sarah Hasan Mohammed, Hussein Habeeb Mustafa, Tebra Mesbah Mohammed Aldahrobi, Nasir Abdalkader, Mohammed Elfil, Adel Elmaghrabi, Radiation effect in the fourth generation of gamma-irradiated barley crop (*Hordeum vulgare* L.) cultivar (Iksad 176), 2024. Journal of College of Basic Education Research, Volume. 20, 2
11. S. H. Mohammed, H. H. Mustafa, M. I. Al-Ahmar,. Effect of Planting Dates In Some Vegetative Growth Characteristics of Three Varieties Broad Bean (*Vicia Faba*) Cultivated In Iraq, 2025., Journal of Education and Science, Volume, 34, No: 1

## **Qualifications**

1. 2004: B.Sc. in Food Sciences, Department of Food Sciences, Faculty of Agriculture, University of Al-Fateh, Tripoli, Libya.
2. 2010: M.Sc. in Analytical Chemistry, Department of Chemistry, Bangor University, Bangor, United Kingdom.
3. 2022: Ph.D. in Environmental Science and Sustainable Development, University of Metropolitan.

## **Occupations**

1. 2006– 2005 Researcher, Department of Food, Industrial Research Center, Tripoli, Libya.
2. 2006 Present: Assistant Professor, Natural Resources Research Group, Libyan Biotechnology Research Center, Tripoli, Libya.
3. 2018-2016 Collaborator, Higher Institute of Agricultural Techniques, Tarhuna, Libya.
4. 2018 -2017 Collaborator, Faculty of Agriculture and Veterinary Medicine, Al-Zaytouna University, Libya.

## **Theoretical & Practical Training Courses**

1. Theory and Practice in Food Analysis, 2007 — AJZ Engineering GmbH, Jena, Germany
2. Practical Skills in Organic Chemistry, 2009 — School of Chemistry, Bangor University, United Kingdom
3. Extraction of Active Compounds from Plants (Natural Resources), 2012 — Department of Chemistry, Bangor University, United Kingdom
4. Information Technology, 2010 — Bangor University, United Kingdom
5. Health and Safety, 2010 — Bangor University, United Kingdom
6. Basics of Quality and Institutional Excellence, 2021 — IBDL, IBAS
7. Quality Standards in Healthcare, 2021 — IBDL, IBAS
8. Quality Standards in Higher Education, 2021 — IBDL, CEO Program ISO 22000:2018 — Issued by the International Accreditation Service (IAS), via Learning Management System (LMS)
9. Sensory Evaluation Training Course for Olive Oil, 2025 — Libyan Center for Biotechnology Research

## **Scientific Projects and Conferences**

1. 2025- Arab Scientific Project: Project Number: ARICA-23-918 .Title: "Characterization, Selection, Propagation, and Valorization of Genetic Resources of Date Palm Males in Arab Countries to Ensure a Stable and Sustainable Production System Adapted to Climate Change .Role: Libyan Program Coordinator – Tozeur, Tunisia (April 17–20)
2. 2023– Seminar on Food Quality, Safety and Control Systems in Libya, Theme: "Between Evaluation and Modernization", Role: Head of the Scientific Committee – University of Tripoli – Faculty of Agriculture (August 6)
3. 2022 – First International Conference on Halal Products – “Supervision, Challenges, and Prospects – One Nation”  
Role: Member and Rapporteur of the Scientific Committee  
Organizer: Islamic Call College – in collaboration with University of Indonesia and Imam Malik Academy – Turkey (March 15–17)

## **Organizational Memberships**

1. Member of the Libyan Society for Food and Nutrition
2. Member of the Royal Society of Chemistry, UK
3. Member of the Libyan Society for the Protection of Marine Life
4. Member of the Libyan Tree Friends Association

## **Awards**

- 2018 Patent (Natural Beverage) – Libya – Number 5307/2018
- 2012 Best Poster Award — Conference on Medicinal Plants, Bangor, UK, 2012