

**CURRICULUM VITAE OF  
PROFESSOR EL SAYED H. EL ASHRY, D. Sc.**

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**Date of Birth:** 29 December 1942. **Nationality:** Egyptian

**Present Position:** Professor of Organic Chemistry, Chemistry Department, Faculty of Science,  
University of Alexandria, Egypt.

**Previous Positions:** At the University of Alexandria: Demonstrator (1963-1970), Lecturer (1970-1975),

Associate Professor (1975-1980), Professor (1980 onwards), head of the organic chemistry section from 1991-1999, Head of the Chemistry Department 1999-2003.

**Degrees and Institutions:** from the University of Alexandria **B.Sc.** (1963), **M.Sc.** (1966), **Ph.D.** (1969),

**D.Sc. (1997) Referees nominated by the Royal Chemical Society (London).**

**Diploma** (1971) in chemistry and chemical engineering with **J. Yoshimura**, Tokyo Institute of Technology, Japan.

**Post Doc.** (1972) with **D. Horton**, Ohio State University U.S.A.

(1973) with **H. El Khadem** Michigan Technological University, U.S.A.

**Visiting Scientist** (1978) A fellowship from Alexander von Humboldt at the Inst. of Org. Chem. (**F. Lichtenthaler**), Darmstadt, West Germany.

**Research Associate** (1979) and (1981) with **C. Schuerch**, ESF, State Univ. of New York, Syracuse, U.S.A.

**Visiting Professor**

--(1982-1988) Faculty of Applied Science and Engineering, University of Umm Alquara, Mekkah, Saudi Arabia.

--(Aug. 1990) with H. Hashimoto, Tokyo Institute of Technology, Japan.

--(June-Sept. 1994) Fulbright Fellowship with D.C. Baker, Univ. of Tennessee, Knoxville, U.S.A.

--(Aug 1996) with A. Katritzky, University of Florida, U.S.A

--(Jun-Aug, 1993), (June-July 1995), (July 1996), (July-Aug. 1997,1998, 2000,2001, 2002, 2003) with R.R. Schmidt, (july 2004) Konstanz University, Germany.

--(2006) International centre for chemical sciences, HEJ Research Institue, Karachi, Pakistan.

**Awards and Decoration:**

1. The 1976 Alexandria University Award for Chemical Research.

2. The 1980 Egypt Award for Chemical Research.

3. The 1981 Egypt 1st Class Ribbon of Science and arts.

4. A 1989 Diploma of Recognition of Scientific Research from World Cultural Council (Consjo Cultural Mundal)

5. The 1991 Melvin Rohmanof Award by NACE (U.S.A.)

6. The 1998, First National Award for Scientific Excellence in basic sciences.

7. The 1999, First Alexandria University Award for Scientific Distinction in basic sciences.

8. The 2007 the Honorary award from the International Scientific Partenership Foundation for valuable contribution to research.

**Guest Speaker:**

Tokyo Institute of Technology(1990). University of Toronto (1991). Aqualon Company, Wilmington (1991). The American University, Washington D.C. (1991) . 1st Astro-Egyptian Meeting on Advances in Heterocyclic Chemistry, Cairo (1991). Konstanz University (1993, 2000). Plenary Lectures at 5th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry , Cairo (1995); the 1st International Conference on Basic Sciences and Advanced Technology, Assiut (1996); El Mansoura University (1997),

Cairo Univ. Conference (2000), Konstanz Univ. (2000), the First Eurasian meeting on Heterocycles in organic and Combinatorial Chemistry, Russia (2000), Aviero University (2001), 8<sup>th</sup> ISIC, Luxor (2002), Um-Alqura university (2003), 9<sup>th</sup> Int. Symposium on Natural Products, Karachi (2004), Chem.03, Cairo university (2004), Wyeth Pharmaceuticals, New York (2004), Drug Biotechnology Conf. Amman (2004), REQOMED2, Spain (2004).

### **Scientific Contributions:**

- About 300 publications, Book Chapters and Invited Review articles from the Editorial Boards of the most outstanding series in the world. Presentations at more than 50 National and International Symposia.
- Author of a book on "Synthesis of naturally occurring nitrogen heterocycles from Carbohydrates".
- Elected member of the Society of Sigma Xi (1973).
- A member of the Advisory Editorial Board of the International Journals:
  1. **Nucleosides, Nucleotides and Nucleic acids.**
  2. **Molecules.**
  3. **Current Organic Synthesis.**
  4. **Mini Reviews in Organic Chemistry.**
  5. **Organic Chemistry Letters.**
  6. **Int. J. Biological and Chemical Sciences.**
  6. **Egyptian Journal of Chemistry**
  7. **The Egyptian Science Magazine**
- Chairman of the 7th Ibn Sina Int. Conference on pure and Applied Heterocyclic Chemistry.
- Chairperson in various national and international conferences.
- Shared the Supervision on more than 70 candidates for M. Sc. And Ph. D. degrees at Alexandria University and other Universities. Of them, 6 Professors, 1 Assistant Professor and 2 Lecturers are Faculty members at Alexandria University. Others are working at: other Universities, Research Institutes, Army, Industry, Government, and Schools.

### **Major Research Interest**

One of the main goals is the potential of carbohydrates as raw materials for the synthesis of other classes of organic compounds, heterocyclic compounds and acyclic nucleosides. The role of microwave technology in organic chemistry is one of the hot topics in our laboratory at the moment. The scope of the reactions of hydrazones and osazones has been explored. These compounds could be degraded and/or modified into functionalized heterocycles with various potential applications. The feasibility of this approach became evident from the great number of publications, shown in the enclosed list, in this area of research. Thus chemical modifications of carbohydrates, L-ascorbic acid and its analogues, furantriones, kojic acid as well as the chemistry of enolones and functionalized carbonyl compounds have been considered of potential significance to achieve synthesis of the target compounds. The study of the scope of these reactions led to the probing of some unusual reactions which turned to be new approaches for the synthesis of heterocyclic compounds. Along this line novel approaches for the synthesis of acyclic-C-nucleoside, antibiotic analogues, and heterocyclic compounds have been achieved. Acetals of the polyol residues were prepared and their locations were correlated with stereochemistry of polyols. A method has been developed to deduce the configuration of the diol from the respective isopropylidene derivative. The conformational analysis of various acyclic side chains has been studied. Quantum chemical calculations have been used to deduce the reaction mechanism of novel reactions. X-Ray analysis and advanced spectroscopic techniques have been used to assign the structures.

New synthetic approaches for human milk oligosaccharides and artificial antigens have been achieved. Novel methodologies in the carbohydrate field have been developed. Explorations towards finding new leads of possible applications are of considerable interest. Thus compounds of potential activity against Hepatitis B virus and as antimicrobial agents have been evaluated. The study of acyclic molecules as glycosidase inhibitors has attracted considerable attention in order to substitute the known ones which required complicated synthetic pathways and are expensive. Some of the study has been directed towards corrosion inhibition. The chemical constitution of Papyrus and its characteristics were studied. The distribution of carbohydrates in the Mediterranean and Red seas (Egypt) was investigated and correlated with pollution and environmental aspects.