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### **Research Interest:**

1. Drug Discovery: Integrated approaches to develop new drugs of natural origin for treatment of liver diseases (liver Fibrosis, Hepatitis-C, Fatty liver).
2. Biological Markers for Early Detection of Liver and Kidney Diseases.
3. Mammalian Tissue culture techniques as tool for studying drug mechanism of action.
4. Mycotoxins:
  - o a.Mycotoxins biosynthesis, mechanism of action, inhibition of its production and synthesis of analogues.
  - o b.Detection of Mycotoxins and study the relation between mycotoxicosis and some diseases ( e.g. Hepatocellular Carcinoma and Nephropathy ).
5. Pollution and its impact on Egyptians Health
6. Microbial Transformation as a tool to study drug metabolism.
7. Developing simple bioassay systems for drug screening of natural products.
8. Isolation and structure elucidation of bioactive compounds from natural sources (plants, marine organisms, and microorganisms) using bioassay-guided techniques. \*Overproduction of antibiotics and other secondary metabolites by using genetic and biotechnological approaches.

### **Experiences**

#### **Research**

Professor, Mansoura University, Egypt, 2000-present:

Visiting *Professor*, Medicinal Chemistry, University of Minnesota , USA , 2000.

Visiting Professor, Institut fur Physiologische Chemie, Abteilung Angewandte Molekularbiologie, Universitat, Duesbergweg 6, 55099 Mainz, Germany, May-June 1997 and 1998.

Associate Professor , Mansoura University, Egypt, 1995-2000.

Research Associate , Medicinal Chemistry, University of Minnesota, USA, 1994-1996.

Assistant Professor , Mansoura University, Egypt, 1990-1995.

1. Consultant at the University of Minnesota , July-Sept. 1991.

#### **Education**

1. Ph.D. (Pharmacognosy-Microbial Transformations and Natural Products Chemistry), University of Mississippi, USA.
2. M.Sc. (Pharmaceutical Cell Biology- Natural Toxins), University of Minnesota, USA
3. M.Sc. (Natural Products Chemistry), Mansoura University, Mansoura, Egypt
4. B.Sc. (Pharmaceutical Sciences), Mansoura University, Mansoura, Egypt.

#### **Professional Societies**

1. American Association for the Advancement of Science (AAAS).
2. New York Academy of Science.
3. American Society of Pharmacognosy (ASP).
4. Pan African Environmental Mutagenic Society (PAEMS).
5. Rho-Chi Society.
6. Vice-Chairman of Mississippi Academy of Sciences (MAS) 1988-90.
7. American-Egyptian Scholars Association.

### **Recognition by International societies:**

1. State Recognition Award in Medicine (Egyptian Academy of Science) 2001.
2. Outstanding Arab Scholar, Kuwait (2000).
3. Khawrazmi International Award, Presented by Iranian President, Iran (2000).
4. Merit of First Class from the President of Egypt (1998).
5. State Recognition Award in Medicine (Egyptian Academy of Science) 1996.
6. Mansoura University Recognition Award (Mansoura University) 1996.
7. Who's Who in America.
8. Who's Who in the World.
9. Food and Drugs Administration (FDA, USA).
10. Nomination for the King Badouin International Development Prize (Belgium).

### **PAPERS PUBLISHED IN REFEREED JOURNALS (in recent years):**

1. Bakr F. Abdel-Wahab, Madiha Farghaly and **Farid A. Badria**, Synthesis and Antitumor studies on pyrazoles and 1,3,4-thiadiazoles containing 2,4-dichlorophenoxy moiety (under Pub).
2. Bakr F. Abdel-Wahab<sup>1</sup> and **Farid A. Badria**, Synthesis and biological evaluation of some new 2-(thiazol-2-yl)-1-(1-(thiophen-2-yl)ethylidene)hydrazine derivatives (under Pub).
3. **F.A. Badria**, T.Yousef, G.M. Abu El-Reash, and O.A.El-Gammal, Synthesis and Antitumor Activity of certain 4-(2-pyridyl)-3-Thiosemicarbazides derivatives (Under Pub).
4. A.A. Fadda, Ahmed El-Shafei, A.M.Khalil, T.A.E.Ameen and **Farid A. Badria**, Synthesis, Antitumor Evaluation, and Quantitative Structure-Activity Relationship (QSAR) of Some Novel Arylazopyrazolodiazine and Triazine Analogues, *Europ. J. Med. Chem.* (2008).
5. A.B.A. El-Gazzar, M.M. Youssef, A.M.S. Youssef, A.A. Abu-Hashem, **F.A. Badria**, Design and Synthesis of Azolopyrimidoquinolines as Anti-oxidant, Anti-inflammatory and Analgesic Activities, *European Journal of Medicinal Chemistry*, 2008
6. Sahar I. Mostafaa, and **Farid A. Badria**, Part II: Synthesis, Spectroscopic and Anticancerous Properties of Mixed Ligand Palladium(II) and Silver(I) Complexes with 4,6-Diamino-5-hydroxy-2-mercapto pyrimidine and 2,2'-Bipyridyl, *Metal Based Drugs* (2008).
7. **Badria, F. and Attia, H.**; EFFECT OF SELECTED NATURAL PRODUCTS, THIOPROLINE AND PEGASYS® ON HEPATIC PLATELET ACTIVATING FACTOR (PAF) IN CCL4-INDUCED HEPATIC FIBROSIS IN RATS; *Saudi Pharmaceutical Journal*, 15(2) 96-104(2007).
8. El-Gazzar, A. B. A.; Gaafar, A. M.; Youssef, M. M.; Abu-Hashem, A. A.; **Badria, F. A.**.. Synthesis and anti-oxidant activity of novel pyrimido[4,5-b]quinolin-4-one derivatives with a new ring system, *Phosphorus, Sulfur and Silicon and the Related Elements* 182(9), 2009-2037(2007).
9. El-Naggar, M. E. E.; Soliman, H. M.; **Badria, F. A.**; Abol-Wafa, G. S., Potentialities of some Egyptian marine algae for production of antifungal components as influenced by time of collection and chemical composition of the algae, *New Egyptian Journal of Microbiology* 16, 230-243(2007),
10. Badr, A.; Abdul Razek, A. and Badria, F.; CYTOTOXICITY EVALUATION OF A NEW ROOT CANAL FILLING MATERIAL (GuttaFlow) ON HUMAN PERIODONTAL LIGAMENT CELLS, *Alex. Dental Journal*, (2007).
11. Badr, A.; Abdul Razek, A.; Omar, N., and **Badria, F.**; *in Vitro* Evaluation of the Antimicrobial and Cytotoxic Activity of Epiphany Root Canal Sealer (2007).
12. **Badria, F.**; Mandour, R.; and Ghanem A.; Impact of Iron Overload in Drinking water on Animal and Human Health in Dakahlyia Governorate and the role of Catechins As Iron Chelator, *J. Env. Sc.*, 33 (2), (2007).
13. **Badria, F.**; Hassanein, H.; El-Neketi, M.; and Hassan-Elrady A. Saad; Heat shock protein (hsp70): A Novel Biomarker for Narcotic Drugs and Hepatotoxic Agents; *MJPS* (2006)..
14. **Badria, F.**, Dawidar, A., Houssen, W., and Wayne T. Shier, In vitro Study of Flavonoids, Fatty acids, Steroids on Proliferation of Rat Hepatic Stellate cells, *Z. Naturforschung*, 60c, (2005).