

**Dr. Hanaa Mansour**

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**Personal Data:**

- Family name : Abdelmonem Mansour
- Name : Hanaa
- Gender: female
- Nationality: Egyptian
- Status: Married

**Education:**

- Postdoc position Anorganische Chemie Institut, Erlangen-Nürnberg Universität, Erlangen, Germany under supervision of prof. Dr. Van Eldik **"Oxidation of Manganese porphyrins and other metal complexes" 2008**
- Ph.D. Organische Chemie Institut, Erlangen-Nürnberg Universität, Erlangen, Germany under supervision of prof. Dr. A. Hirsch, Prof. Dr. N. Jux, **"Synthesis and characterisation of novel porphyrins and their metal complexes" 2005**
- Co-worker in the research group of Prof Dr. M. M. Abbasi, Faculty of Science, Tanta University, Egypt in project **"Synthesis and studies of biological activities of benzodiazepinones nucleosides" 1996-2000**
- M.Sc. Organic Chemistry, Tanta University, Tanta, Egypt, under title **"Reactivity of some heterocyclic compounds with sugar moieties with potential biological activity" 1995**
- B.Sc. Chemistry, Faculty of Science, Tanta University, Tanta, Egypt, **1990**

**Professional History:**

- Lecturer of Organic Chemistry, Kafr El-sheikh University, Kafr El-sheikh, Egypt **2006- till now.**
- Member of work group of Prof. A. Hirsch in Friedrich-Alexander Universität, Erlangen-Nürnberg, Germany 2001 to 2005
- Assistant Lecturer of Organic Chemistry, Kafr El-sheikh University, Kafr El-sheikh, Egypt 1996 to 2001.
- Administrator of Organic Chemistry, Kafr El-sheikh University, Kafr El-sheikh, Egypt 1991 to 1996

### **Experiences:**

- **Organic synthesis and Porphyrins modifications.**
- **Glycosides modifications.**
- **UV techniques.**
- **IR techniques.**
- **HPLC techniques.**
- **Column chromatography techniques.**
- **NMR techniques.**

### **Publications:**

**1-** A. M. E. Attia, E. I. Ibrahim, F. E. A. Hay, M. M. A. Abbasi, **H. A. E. Mansour**, *Nucleosides & Nucleotides*, **1995**, 14(7), 1581.

**2-** A. M. E. Attia, E. I. Ibrahim, F. E. A. Hay, M. M. A. Abbasi, **H. A. E. Mansour**, *Org. Prep. Proc. Int.*, **1995**, 27(6), 621.

**3-** A. M. E. Attia, **H. A. E. Mansour**, A. A. Almehdi, M. M. A. Abbasi, *Nucleosides & Nucleotides*, **1999** 18(10), 2301.

**4-** N. H. Huyen, U. Jannsen, **H. Mansour**, N. Jux, *J. Porphyrins and Phthalocyanines*, **2004**, 8, 1356.

**5-** **Hanaa Mansour**, Shaban Y. Shaban, Mohamed E. El-Khouly, Osamo Ito, Norbert Jux, *J. Porphyrins and Phthalocyanines*, **2007**, 11(10), 719.

6- Shaban Y. Shaban, F. W. Heinemann, **H. Mansour**, D. Sellmann, **J. coord. Chem.**, **2010**, 63, 14–16, 2812–2820.

7- Ralph Puchta, Shaban Y. Shaban, H. Mansour, Basam M Alzoubi, **J. Coord. Chem.**, **2010**, 63, 14–16, 2010, 2879–2887.

**Conference contributions:**

**2003 SFB-Symposium** on "Redoxactive Metal Complexes-Control of reactivity *via* Molecular Architecture" at Friedrich-Alexander-Universität Erlangen-Nürnberg Hanaa Mansour, Ulrike Janssen, Norbert Jux

*Modification of the second coordination sphere of tetraphenylporphyrins I*

**2003 SFB-Symposium** on "Redoxactive Metal Complexes-Control of reactivity *via* Molecular Architecture" at Friedrich-Alexander-Universität Erlangen-Nürnberg Domenico Balbinot, Uwe Hartnagel, Hanaa Mansour, Norbert Jux

*Polyanionic and-cationic tetraphenylporphyrins*

**2004 Chemistry Symposium Erlangen-Rennes** on "Redoxaktive Metallkomplexe-Reaktivitätssteuerung durch molekulare Architekturen" at Friedrich-Alexander-Universität Erlangen-Nürnberg Hanaa Mansour, Ulrike Janssen, Norbert Jux

*Modification of the second coordination sphere of tetra- phenylporphyrins II*

**2007 XXI International Conference on Coordination and Bioinorganic Chemistry Achievements In** Coordination, Bioinorganic, and Applied Inorganic Chemistry, **Smolenice, Slovakia.**

### **Current research interest:**

Photofrin®, a mixture of hematoporphyrin oligomers, is currently used clinically for the photodynamic therapy (PDT) of cancers, but suffers from a variety of problems including solubility and dosing. Because of their potential selective binding to various cell types, porphyrins appended with a variety of saccharides have been examined as possible agents for PDT. Most recently, sugar-specific binding to rat hepatoma cells by porphyrin glycoconjugates has been described. Their efficacy as antibiotics and anti-viral agents is also under intense investigation. Since metalloporphyrins are well-established catalysts, the attachment of sugars to affect regio- and stereo-selective oxidations has also been examined, albeit with limited success. So the synthesis and characterisation of glycoconjugated porphyrins, and their aza derivatives in order to study their biological activity as photosensitizers in an *in vitro* assay. As reported before glycosylated benzochlorin and azaporphyrins, whose absorption bands in the red region of the visible spectrum are substantially increased as compared to porphyrins, display a good photocytotoxicity on tumor cells after irradiation with wavelength above 590 nm. Synthesis of new series of organic compounds and their applications as photo active materials, application of some nanocomposite clays for purification of drink water are my current research.