

## List of Publications:-

1. **Amany M. A. Osman**, Per T. Jørgensen, Niels Bomholt, Erik B. Pedersen (2008) Using an aryl phenanthroimidazole moiety as a conjugated flexible intercalator to improve the hybridization efficiency of a triplex-forming oligonucleotide. *Bioorg. Med. Chem.*16:9937-9947.
2. Niels Bomholt, **Amany M. A. Osman** and Erik B. Pedersen (2008) High physiological thermal triplex stability optimization of twisted intercalating nucleic acids (TINA). *Org. Biomol. Chem.*, 6:3714-3722.
3. Triplex glue by synthesizing conjugated flexible intercalators. / Pedersen, Erik Bjerregaard. ; **Osman, Amany Mostafa Ahmed** ; Globisch, Daniel ; Paramasivam, Marikandan ; Cogoi, Susanne ; Jørgensen, Per Trolle ; Xodo, Luigi E. ; Filichev, Vyacheslav V.. 2008. s. 37-38 Conference: Joint Symposium of the 18th International Roundtable on Nucleosides, Nucleotides and Nucleic Acids and the 35th International Symposium on Nucleic Acids Chemistry, Kyoto, Japan, 8. September 2008 - 12. September 2008. Nucleic Acids Symposium
4. INTERCALATING TRIPLEXES AND DUPLEXES USING ARYL NAPHTHOIMIDAZOL AND PROCESS FOR THE PREPARATION THEREOF. Pedersen, Erik Bjerregaard; **Osman, Amany Mostafa Ahmed**; Jørgensen, Per Trolle; Bomholt, Niels. **Patent number: WO2009135890. 12-11-2009.**
5. **Amany M. A. Osman** and Erik B. Pedersen, Synthesis of a new intercalating nucleic acid analogue with pyrenol insertions and the thermal stability of the resulting oligonucleotides towards DNA over RNA. *Monatshefte fuer Chemie*, (2010), 141(7), 817-822
6. **Amany M. A. Osman**, Erik B. Pedersen and Jan Bergman, Synthesis of a new intercalating nucleic acid 6*H*-indolo[2,3-*b*] quinoxaline oligonucleotides to develop thermal stability of Hoogsteen-type triplexes, *Nucleosides, Nucleotides and Nucleic Acids*, 32:98–108, 2013
7. Magdy A. H. Zahran, Yasmin G. Abdin, **Amany M. A. Osman**, Amira M. Gamal-Eldeen, Roba M. Talaat, and Erik B. Pedersen, Synthesis and Evaluation of Thalidomide and Phthalimide Esters as Antitumor Agents, *Arch. Pharm. Chem. Life Sci.* 2014, 347, 1–8
8. Magdy A H Zahran, **Amany M A Osman**, Rania A wahed, Magdy Attia, Erik B Pedersen, Gamal A Elnasser and Azza Sh Turkey, Design,

Synthesis and Antimicrobial Evaluation of Novel Carbendazim Dithioate Analogs, Accepted for publication in Research Journal of Pharmaceutical, Biological and Chemical Sciences. Volume 6, issue 4, 2015. ISSN: 0975-8585.

9. **Amany. M. A. Osman**, Eman A.H. Mansour, Magdy A. H. Zahran, and Erik B. Pedersen, Synthesis of New Bis-Phthalimide and Thalidomide Ester Derivatives, and Evaluation of their Antitumor Activity, under submission in Medicinal Chemistry.

10. Magdy Zahran, **Amany M. A. Osman**, Hussein Agwa, Yasmin Abdin, Bishoy El-Aarag, Roba Talaat, Enas El-Hussieny, Nasser Mohammed, Tarek Salem, Amira Gamal El-deen, Synthesis, immunomodulatory and anti-angiogenic activity of phthalimide dithiocarbamate and dithioate analogs, under submission in Journal : Chemico-Biological Interactions

11. **Amany M. A. Osman** and Erik B. Pedersen, Studying the Influence of Methylated Cytosine on the Stability of DNA *i*-Motifs, under preparation.

12. **Amany M. A. Osman** and Masaaki Kai, Chemiluminescence detection of telomere DNA on a Nylon membrane by using fluorescein-5-isothiocyanate-labeled primers, under preparation

13. **Amany M. A. Osman** and Erik B. Pedersen, Modulation of *i*-motif thermodynamic stability by the introduction of Methylated Cytosine, under preparation

14. **Amany M. A. Osman** and Erik B. Pedersen, Conjugation of ethynyl-6H-indolo [2,3-b] quinoxaline intercalator to a triplex oligonucleotide and to a three-way junction, under preparation