



MANAL ALY SHALABY

ASSOCIATE PROFESSOR

<b>PERSONAL INFORMATION</b>	<p>Full Name: Manal Aly Shalaby Aly</p> <p>Affiliations: Assistant professor, Department of Medical Biotechnology, Institute of Genetic Engineering, City of Scientific Research and Technological applications.</p> <p>Address: City of Scientific Research and Technological applications.</p> <p>Mobile No.:</p> <p>E-mail: mshalaby@srtacity.sci.eg</p> <p>Important links:</p>
<b>EDUCATION</b>	<p>1-<b>Ph.D.</b> in Molecular Carcinogenesis, School of Medicine, Manchester University, Manchester, UK. (2009).</p> <p>2-<b>M.Phil.</b> in Biomolecular Sciences. UMIST, Manchester, UK. year (2000).</p> <p>3- <b>B.Sc.</b> in Zoology, Suez Canal University, Egypt 1991 (Very Good).</p>
<b>ACTIVITIES</b>	<p><b>Scientific Activities</b></p> <p><b>PI of the project Nanoparticles derived from marine collagen; preparation , characterization and suitability for drug delivery and wound healing 2017-2020</b></p> <p><b>Administrative Activities</b></p> <p>Participation in summer and winter school courses for university <b>2019-2020</b></p> <p><b>Extra-curriculum Activities</b></p> <p>رئيس لجنة فحص الكيماويات بالمدينة 2020</p> <p>عضو مجلس معهد الهندسة الوراثية 2020-2019-2018-2017-2016</p> <p>عضو مجلس قسم التكنولوجيا الحيوية الطبية</p>

	<p>عضو لجنة الدراسات العليا بمعهد الهندسة الوراثية-2019-2018</p> <p>عضو جمعية السرطان المصرية 2019</p>
GRANTS & AWARDS	<p>Academy of Scientific Research and Technology (ASRT), Grant number 26D/2017.</p> <p>(Grant's Name – Date – Location)</p>
	<p>Awards</p> <p>(Award's Name – Date – Location)</p>
LIST OF PUBLICATIONS	<p>1-Saeed, Hesham, Asmaa Hemida, Nefertiti El-Nikhely, Manal Abdel-Fattah, <b>Manal Shalaby</b>, Ahmed Hussein, Ahmad Eldoksh et al. "Highly efficient Pyrococcus furiosus recombinant L-asparaginase with no glutaminase activity: Expression, purification, functional characterization and cytotoxicity on THP-1, A549 and Caco-2 cell lines." International Journal of Biological Macromolecules (2020).</p> <p>2- <b>Shalaby, Manal</b>, Mona Agwa, Hesham Saeed, Shaimaa M. Khedr, Omnia Morsy, and Maha El-Demellawy. "Fish Scale Collagen Preparation, Characterization and Its Application in Wound Healing." <i>Journal of Polymers and the Environment</i> 28, no. 1 (2020): 166-178.</p> <p>3-Saeed, Hesham, Manal Abdelfattah, Lamiaa El-Shennawy, <b>Manal Shalaby</b>, Amira Embaby, Farid Ataya, Hoda Eed, and Ahmed Hussein. "The Arabian camel, Camelus dromedarius interferon epsilon: functional expression, in vitro refolding, purification and cytotoxicity on breast cancer cell lines MDA-MB-231 and MCF-4-<b>Shalaby, Manal</b> A., Howaida A. Nounou, and Maha M. Deif. "The potential value of capsaicin in modulating cognitive functions in a rat model of streptozotocin-induced Alzheimer's disease." <i>The Egyptian Journal of Neurology, Psychiatry and Neurosurgery</i> 55, no. 1 (2019): 48-54.</p> <p>5-Elwakeel, Ahmed, Hadeer Soudan, Ahmad Eldoksh, <b>Manal Shalaby</b>, Maha Eldemellawy, Doaa Ghareeb, Myriam Abouseif, Amira Fayad, Mostafa Hassan, and Hesham Saeed. "Implementation of the Chou-Talalay method for studying the in vitro pharmacodynamic interactions of binary and ternary drug combinations on MDA-MB-231 triple negative breast cancer cells." <i>Synergy</i> (2019): 100047.</p> <p>6-Attia, Hala, Howaida Nounou, and <b>Manal Shalaby</b>. "Zinc oxide nanoparticles induced oxidative DNA damage, inflammation and apoptosis in rat's brain after oral exposure." <i>Toxics</i> 6, no. 2 (2018): 29.</p> <p>7-Saeed, Hesham, Mohammad Ismaeil, Amira Embaby, Farid Ataya, Ajamaluddin Malik, <b>Manal Shalaby</b>, Sabah El-Banna, Ahmed Abdelrahim Mohamed Ali, and Khalid Bassiouny. "Overexpression, purification and enzymatic characterization of a recombinant Arabian camel Camelus dromedarius glucose-6-phosphate dehydrogenase." <i>Protein expression and</i></p>

- purification* 142 (2018): 88-94
- 8-Howaida Attia Nounou, **Manal Ali Shalaby**, and Iman E El Gohary The effect of Nrf2-Keap1 pathway on the oxidative stress and inflammations in acute kidney injury patients. International Journal of Advanced Research (2016), Volume 4, Issue2, 424-433
- 9-Hesham Saeed, **Manal Shalaby**, Amira Embabya, Mohammad Ismael, Akbar Pathan, Farid Atayac, e, Mohammad Alanazi, Khalid Bassiouny The Arabian camel *Camelus dromedarius* heat shock protein 90 $\alpha$ : cDNA cloning, characterization and expression. International Journal of Biological Macromolecules 2015, **81**, 195–204
- 10-Fatima AlMutairi, Akbar Ali Khan Pathan, Mohammed Alanazi, **Manal Shalaby**, Huda A. Alabdulkarim, Abdullah Alamri, Abdulrahman Al Naeem, Moammad Elrobh, Jilani P. Shaik, Wajahatullah Khan, Zahid Khan, and Narasimha Reddy Parine. Association of DNA Repair Gene APE1 Asp148Glu Polymorphism with Breast Cancer Risk Disease Markers. Volume 2015 2015, Article ID 869512, 10 pages
- 11-Amina Elgezeery, **Manal Shalaby**, Afaf Elansary. Nonviral gene therapy. Life Science Journal 2013, **10**, 2971-2991.
- 12-H.M. Saeed, M.S. Alanazi, **M.A. Shalaby**, O. Alshahrani<sup>1</sup>, F.S. Ataya, A.A. Pathan and Z.A Abduljaleel. Molecular cloning and cDNA characterization of *Camelus dromedarius* putative cytochrome P450s 1A, 2C, and 3A. Genetics and Molecular Research. 2014, **13**, 2886-2905.
- 13-Hesham Mahmoud Saeed, Mohammad Saud Alanazi, Narasimha Reddy Parine, Jilani Shaik<sup>1</sup>, Abdelhabib Semlali, Othman Alharbi, Nahla Azzam, Abdulrahman Aljebreen, Majid Almadi, **Manal Aly Shalaby**. Matrix Metalloproteinase-2 (-1306 C>T) Promoter Polymorphism and Risk of Colorectal Cancer in the Saudi Population. Asian Pacific Journal of Cancer Prevention, 2013, **14**, 6025-6030.
- 14-Atika Hazzaa Alshammari, **Manal Aly Shalaby**, Mohammad Saud Alanazi, Hesham Mahmoud Saeed. Novel Mutations of the PARP-1 Gene Associated with Colorectal Cancer in the Saudi Population. Asian Pacific Journal of Cancer Prevention, 2014, **15**, 3667-73.
- 15-Hesham Mahmoud Saeed, Mohammad Saud Alanazi, Omair Alshahrani, Narasimha Reddy Parine, Huda Abdullah Alabdulkarim and **Manal Aly Shalaby**. Matrix metalloproteinase-2 C-1306T promoter polymorphism and breast cancer risk in the Saudi population. Acta biochemica Polonica. 2013, **60**, 405–409
- 16-**Manal Ali Shalaby**, Howaida Attia Nounou, Mohammad Saud Alanazi, Othman Alharby, Nahla Azzam, Hesham Mahmoud Saeed. Associations between Single Nucleotide Polymorphisms of COX-2 and MMP-2 Genes and Colorectal Cancer Susceptibility in the Saudi Population. Asian Pac J Cancer Prev. 2014, **15**, 4989-4994.
- 17-**Manal A. Shalaby**, Howaida A. Nounou, Maha Arafah. Identification of Plexin D1 as a tumor biomarker in brain, breast and thyroid cancers. Life Science Journal 2013, **10**, 2760-2765.
- 18-Al Mutairi FM, Alanazi M, **Shalaby M**, Alabdulkarim HA, Pathan AA, Parine NR.

Association of XRCC1 Gene Polymorphisms with Breast Cancer Susceptibility in Saudi Patients. *Asian Pac J Cancer Prev.* 2013,**14**, 3809-13

19-Saeed HM, Alanazi MS, Nounou HA, **Shalaby MA**, Semlali A, Azzam N, Aljebreen A, Alharby O, Parine NR, Shaik J, Arafaha M. Cytochrome P450 1A1, 2E1 and GSTM1 Gene Polymorphisms and Susceptibility to Colorectal Cancer in the Saudi Population. *Asian Pac J Cancer Prev.* 2013, **14**, 3761-3768.

20-**Manal A. Shalaby**, Howaida A. Nounou, and Maha Arafah. Identification of Plexin D1 as a tumor biomarker in brain, breast and thyroid cancers. *Life science journal* 2013,**10**, 2647- 2652.

21-Nahla Azzam , Howaida Nounou, Othman Alharbi, Abedulrahman Aljebreen and **Manal A. Shalaby**. CARD15/NOD2, CD14 and Toll-like 4 Receptor Gene Polymorphisms in Saudi Patients with Crohn's Disease. *Int. J. Mol. Sci.* 2012, **13**, 4268-4280.

22-Howaida A. Nounou, Safia M. Ali, **Manal A. Shalaby**. The potential risk factors for childhood disabilities in Riyadh rural areas, Saudi Arabia. *Asian Biomedicine* 2012, **6**, 807-813.

23-Howaida A. Nounou, Maha M Deif, **Manal A Shalaby** Effect of flaxseed supplementation and exercise training on lipid profile, oxidative stress and inflammation in rats with myocardial ischemia. *Lipids in Health and Disease* 2012, **11**, 129 –

24-Mohammad Alanazi, Hesham Saeed and **Manal Shalaby**. The use of degenerate oligonucleotide primed polymerase chain reaction (DOP-PCR) technique to detect and isolate cytochrome P450 2E1 and 2A genes. *African Journal of Biotechnology* 2012, **11**, 2677-2684

25-**Shalaby MA**, Hampson L, Oliver A, Hampson I Identification of PlexinD1 and AHDC1 as a putative interactors for Tip-1 protein. *Immunoassay Immunochem.* 2012, **33**, 223-33

26-**Shalaby MA**, Hampson L, Oliver A, Hampson I. Plexin D1: new potential biomarker for cervical cancer. *Genes & Genomics.* 2011, **33**, 399-405.

27-Samia M. Rida, Fawzia A. Ashour, Soad A. M. El-Hawash, Mona M. El Semary, Mona H. Badr, **Manal A. Shalaby**. Synthesis of Some Novel Benzoxazole Derivatives as Anticancer, Anti-HIV-1 and Antimicrobial Agents. *Eur. J. Med. Chem.* 2005, **40**, 949-959.

28-Rostom S.A.F., **Shalaby M.A.**, El-Demellawy M.A. Polysubstituted pyrazoles, part 5.1. Synthesis of new 1-(4-chlorophenyl)-4-hydroxy-1H-pyrazole-3-carboxylic acid hydrazide analogs and some derived ring systems. A novel class of potential antitumor and anti-HCV agents. *European Journal of Medicinal Chemistry.* 2003, **38**, 959-974.

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