

CURRICULUM VITAE

NAME: **Mohamed Mohamed Sayed-Ahmed**

MAILING ADDRESS: **Pharmacology and Experimental Oncology Unit,
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PRESENT ADDRESS : **Department of Pharmacology, College of Pharmacy,
King Saud University, P.O. Box 2457, Riyadh 11451,
Kingdom of Saudi Arabia
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DATE OF BIRTH: **09/03/1962**

NATIONALITY: **Egyptian.**

MARITAL STATUS: **Married to Dr. Amira Zakzouk in 1992. Have Two
Children, Walaa and Ahmed Mohamed Sayed-Ahmed**

LANGUAGES: **Arabic and English.**

EDUCATION:

1980-1985 **B. Pharmaceutical SC. Hon., Zagazig Faculty of
Pharmacy.**

1988-1992 **Master of Pharmacology and Experimental Oncology,
Faculty of Pharmacy, Cairo University. Thesis: Effect
of Local Hyperthermia and Some Anticancer Drugs in
the Treatment of Solid Ehrlich Carcinoma.**

1992-1995 **Ph.D. Pharmacology and Experimental Oncology, Duke
University, Medical Center, North Carolina, USA and
National Cancer Institute, Cairo University. Thesis:
Pharmacological and Biochemical Studies on The
Mechanisms of Adriamycin Induced-Cardiotoxicity.**

EMPLOYMENT RECORDS:

1988-1992	Demonstrator of Pharmacology and Experimental Oncology, Cancer Biology Department, National Cancer Institute, Cairo University.
1992-1997	Assistant Lecturer of Pharmacology and Experimental Oncology, Cancer Biology Department, National Cancer Institute, Cairo University.
1994-1997:	Ph.D student at Duke University, Medical Center, USA.
1997-2002:	Assistant Professor of Pharmacology and Experimental Oncology, Cancer Biology Department, National Cancer Institute, Cairo University.
2002-2004:	Director of Pharmacology and Experimental Oncology Unit, Cancer Biology Department, National Cancer Institute, Cairo University.
2002-2004:	Associate Professor of Pharmacology and Experimental Oncology, Cancer Biology Department, National Cancer Institute, Cairo University.
2004-2007:	Associate Professor of Pharmacology and Experimental Oncology, Pharmacology Department, College of Pharmacy, King Saud University.
2007-Present	Professor of Pharmacology and Experimental Oncology, Pharmacology Department, College of Pharmacy, King Saud University, Kingdom Saudi Arabia.
May, 2009	Winner of Distinguished Research and Publication Award, King Saud University.
October, 2010	Invited Speaker by Sigma-Tau Foundation, Italy and presented 3 lectures in the National Institute of Health, University of Bologna and university of Brescia, Italy.
2010-2012	Scientific Consultant for the Research Center, College of Pharmacy, King Saud University.
May, 2011	Keynote Speaker in the 4th Annual World Cancer Congress, Dalian, China.

May, 2012	Keynote Speaker in the 5th Annual World Cancer Congress, Beijien, China.
May, 2013	Keynote Speaker in the 6th Annual World Cancer Congress, Xian, China.
April, 2014	Keynote Speaker in the 4th international conference on Clinical and Experimental Cardiology, San Antonio, Texas, USA.
April, 2015	Keynote Speaker in the 3rd Pharma-Nutrition Conference, Philadelphia, USA.

TEACHING EXPERIENCES:

1- Teaching experience in Pharmacology Department, College of Pharmacy, King Saud University, Kingdom Saudi Arabia.

Course Code	Course Title	Student Level
PHL 322	Pharmacology-2	Undergraduate
PHL 326	Pharmacology-2	Pharm. D. Undergraduate
PHL 417	Clinical Pharmacology-3	Pharm. D. Undergraduate
PHL 425	Clinical Pharmacology-4	Undergraduate
PHL 433	Clinical Toxicology	Undergraduate
PHL 454	Biological Standardization	Undergraduate
PHL 101	Pharmacology for Nursing	Undergraduate
PHL 512	Advanced Pharmacology	Postgraduate
PHL 522	Advanced Clinical Toxicology	Postgraduate
PHL 534	Environmental and Industrial Toxicology	Postgraduate
PHL 541	Pharmacometrics	Postgraduate
PHL 533	Drugs of Abuse	Postgraduate

- 2- Teaching experience in Toxicology, Pharmacology and Experimental Oncology for Postgraduate students, National Cancer Institute, Cairo University.**
- 3- Teaching experience in Pharmacology and Toxicology for Postgraduate students, Faculty of pharmacy, Ain Shams University.**
- 4- Teaching experience in Clinical pharmacology and Toxicology for Clinical Pharmacy Students at National Cancer Institute, Cairo University.**
- 5- Teaching experience in Toxicology, Pharmacology and Experimental Oncology for M.D. student, South Egypt Cancer Institute, Assuit University.**
- 6- Experience in Teaching Rotation Laboratories for M.D. and Ph.D. students, National Cancer Institute, Cairo University.**

RESEARCH EXPERIENCES:

Research Experience in studying gene expression of biological markers as potential therapeutic targets in different types of cancer including, breast and ovarian cancer.

Research Experience in using L-carnitine and Propionyl-L-carnitine as protective agents against Anticancer drug-induced organs toxicity.(Duke University, Medical Center, USA).

Research Experience in modulation of Anticancer drugs-induced organ toxicity. (Duke University, Medical Center, USA).

Research Experience in study the effects of anticancer drugs on cardiac and hepatic metabolism using isotopic dilution technique (Duke University,Medical Center, USA).

Research Experience in isolation of Cardiac myocytes and liver hepatocytes as toxicity model to study radioactive substrate oxidation in response to anticancer drugs (Duke University, Medical Center, USA).

Research Experience in modulation of tumour cell drug resistance and in tissue culture Technique dealing with the growth of human tumour cells, tumour cell cycle phase determination using flowcytometry.

Good experience in screening the potentially antiangiogenic and antimetastatic agents as biological therapy of cancer and in screening anticancer agents and the interaction between anticancer drugs and other drugs using different tumour cell lines.

Good experience in using HPLC technique for determination of plasma level of

anticancer drugs, Antibiotics, Narcotics, and L-carnitine as a routine used for the treatment and follow up of Egyptian Cancer Patients.(Therapeutic drug monitoring)

PRINCIPAL INVESTIGATOR OF THE FOLLOWING RESEARCH PROJECTS:

- Principal Investigator of the project entitled “Identification of some genes in ovarian cancer of Saudi women as potential Diagnostic and targeted-therapy” Funded from KACST, Saudi Arabia 1900.000 Saudi Riyals (COMPLETED).
- Principal Investigator of the project (09-BIO939-02) entitled “Characterization of Biological Markers in Triple-Negative Breast Cancer Saudi Women as potential Molecular Targeted-Therapy” Funded from National Plan for Science and Technology (1.200.000 SR), King Saud University, Saudi Arabia (COMPLETED).
- Principal Investigator of the Research Project (CPRC 154) Entitled: Protective Role of carnitine against diethylnitrosamine-induced hepatocarcinogenesis in rats (Completed).
- Principal Investigator of the Research Project (CPRC 155) Entitled: Evaluation of cisplatin-induced cardiac and renal dysfunction in carnitine-depleted rat model (Completed).
- Principal Investigator of the Research Project (CPRC 171) Entitled: Evaluation of Gentamicin-Induced Hepatorenal Dysfunction in Carnitine Depleted Rats by D-carnitine and γ -Butyrobetaine Hydroxylase Inhibitor (Completed).
- Principal Investigator of the Research Project (CPRC 230) Entitled: Role of L-carnitine in Ifosfamide-induced Fanconi Syndrome in rats (Completed).
- Principal Investigator of the Research Project (CPRC 232) Entitled: Does thymoquinone supplementation protect against diethylnitrosamine-induced hepatocarcinogenesis in rats (completed).
- Principal Investigator of the Research Project (CPRC 242) Entitled: Molecular study on the preventive role of carnitine against induction of hepatocellular carcinoma (completed).
- Main Supervisor for the master thesis of the student Amal Qasem Darweesh Entitled: Possible mechanism(s) of oxazaphosphorines-induced cardiotoxicity in normal and carnitine depleted rats, Pharmacology Department, College of Pharmacy, King Saud University (Completed 2009).

- Academic Supervisor for the master Thesis for the student Mehshan Aldelamy, Pharmacology Department, College of Pharmacy, King Saud University (Running, 2012).

Supervisor of Ph.D and M.Sc Thesis:

1- Meshan Lafy Al-Delemy

- Molecular Mechanisms of Oxazaphosphorines-Induced cardiotoxicity in Rats.
- College of Pharmacy, King Saud University (2012)

2- Amal Qassem Al-Darweesh (M.SC)

- Possible Mechanisms of Oxazaphosphorines-Induced cardiotoxicity in Normal and Carnitine Depleted Rats.
- College of Pharmacy, King Saud University (2009)

3- Ashraf Mostafa Fahmey (Ph.D)

- Comparative clinical study on pharmacokinetics and toxicity of 5- fluorouracil in Egyptian colorectal cancer patients under iv push or iv perfusion regimen in different protocols.
- College of Pharmacy, Mansoura University (2008)

4- Marwa Wageh Ahmed (M.Sc)

- Molecular mechanisms of cellular resistance to doxorubicin in tumours
- College of Pharmacy, Cairo University (2006)

5- Kamal A. Mostafa (Ph.D) (M.Sc)

- A protective role of probucol and desferoxamine in adriamycin-induced cardiomyopathy in rats
 - College of Pharmacy, Cairo University (2006)
-

6- Maha Eisa Ahmed (M.Sc)

- Evaluation of cisplatin-induced nephrotoxicity in normal and carnitine depleted rat models
- College of Pharmacy, Cairo University (2003)

7- Heba H. Mansour (Ph.D)

- Modulation of synergistic cardiotoxicity of doxorubicin and radiation therapy by propionyl-L-carnitine
 - College of Pharmacy, Helwan University (2002)
-

8- Mona M. Fathey (M.Sc)

- Effect of L-carnitine on doxorubicin-induced cardiac and bone marrow toxicity
- College of Science, Helwan University (2001)

9- Khaled K. Moez (M.D)

- Evaluation of different fiberoptic intubation techniques in cancer patients
 - National Cancer Institute, Cairo University (2001)
-

10- Basher M. Rezk (M.Sc)

- Effect of Propionyl-L-carnitine on Adriamycin-Induced Cardiotoxicity.
- College of Science, Cairo University (2000)

Editorial Board Member:

- 1- World Journal of Clinical Urology
- 2- World Journal of Transplantation
- 3- Saudi Pharmaceutical Journal
- 4- Journal of Pharmaceutical Care & Health Systems

Peer Reviewer for International Journals:

- 1- Journal of Physiology and Biochemistry
- 2- Human and Experimental Toxicology
- 3- Molecular Nutrition and Food Research
- 4- Molecular and Cellular Biochemistry
- 5- Chemotherapy
- 6- Pediatric Research
- 7- Pakistani Journal of Pharmacology
- 8- BMC Central
- 9- Scientific Research and Essays
- 10- Saudi Pharmaceutical Journal
- 11- King Khalid University Journal

List of Publications:

- 1- Osman, A. M. ; **Sayed-Ahmed, M. M.** ; Khayyal, M. T. and El- Merzabani, M. M.: Hyperthermic Potentiation of Cisplatin on Solid Ehrlich Carcinoma. **Tumori** **1993, 79: 268-272.**
- 2- Shouman, S. A.; **Sayed-Ahmed, M. M.** and El-Merzabani, M.M: Potentiation of the Chemotherapeutic Effect of Methotrexate by Hyperthermia in Experimental Animal Tumour Model. **J. Egypt. Nat. Cancer Inst. 1994 , 6: 868-876.**
- 3- Abdel-aleem, S. ; Sharawi, S. ; Badr, M. ; **Sayed-Ahmed, M. M.** ; Anstadt, M. P. and Lowe, J.E.: Reduced Induction of Carbohydrate Utilization by Inhibition of Fatty Acid Oxidation in Myocytes From Diabetic Animals. **Horm. Metab. Res. 1994, 27: 104-106.**
- 4- Abdel-aleem, S. ; **Sayed-Ahmed, M. M.** ; Nada, M. A. ; Hendrickson, S. C. ; Louis, J.S. and Lowe, J.E.: Stimulation of Non-Oxidative Glucose Utilization by L-carnitine in Isolated Myocytes. **J. Mol. Cell. Cardiol. 1995, 27: 2465-2472.**
- 5- Abdel-aleem, S. ; **Sayed-Ahmed, M. M.** ; Nada, M. A. ; Hendrickson, S. C. ; Louis, J.S., Walthall, H.P. and Lowe, J.E.: Regulation of Fatty Acid Oxidation

- by Acetyl-CoA Generated From Glucose Utilization in Isolated Myocytes. **J. Mol. Cell. Cardiol.** 1996, 28: 825-833.
- 6- Abdel-aleem, S ; El-Merzabani, M. M. ; **Sayed-Ahmed, M. M.** ; Taylor, D. A. and Lowe, J. E.: Acute and Chronic Effects of Adriamycin on Fatty Acid Oxidation in Isolated Cardiac Myocytes. **J. Mol. Cell. Cardiol.** 1997, 29: 789-797.
 - 7- Abidli, N., **Sayed-Ahmed, M.M.**, El-Gerzawy, S.M., El-Didi, M.M. Benlatreche, C., El-Merzabani, M.M. and Osman, A.M: Verapamil enhancement of the cytotoxic and cell cycle perturbation of doxorubicin in Ehrlich ascites carcinoma cells in vivo. **J. Egyptian National Cancer Institute** 1999; 10: 433-438.
 - 8- **Sayed-Ahmed, M.M.** ,Sharawy, S., Shouman, S.A. And Osman, A.M.: Reversal of doxorubicin-induced cardiac metabolic damage by l-carnitine. **Pharmacol. Res.** 1999, 39: 289-295.
 - 9- **Sayed-Ahmed, M.M.**, Khattab, M., Khalifa, A., El-Khabany, M. and Osman, A.M: Potential promise of using L-carnitine and Coenzyme Q10 as protective agents against Cisplatin-induced nephrotoxicity. **J. Egyptian National Cancer Institute** 1999; 11: 167-173.
 - 10- Hanafy M., **Sayed-Ahmed, M.M.** and Osman A.M.: The protective effect of methimazole against cisplatin-induced chromosomal aberrations. **Sc. J. Az. Med. Fac.(Girls)** 1999, 20: 637-645.
 - 11- **Sayed-Ahmed M.M.**, Shouman, S.A., Rezk, B.M., Khalifa, M.H., Osman, A.M. and El-Merzabani, M.M: Propionyl-L-carnitine as potential protective agent against adriamycin-induced impairment of fatty acid beta-oxidation in isolated heart mitochondria. **Pharmacol. Res.** 2000, 41: 143-150.
 - 12- Salman T.M. and **Sayed-Ahmed M.M.**: Effects of trichloroacetate, water chlorination by-product, on liver peroxisomes and antioxidant status in rats and mice. **Sc. J. Az. Med. Fac.(Girls)** 2000, 21: 631-648.
 - 13- Osman, A.M. Mohamed M.A., Abdel-Wahab A.A., and **Sayed-Ahmed M.M.** Modulation by verapamil of doxorubicin induced expression of multidrug resistance gene (MDR-1 P-glycoprotein) in murine tumour mode. **J. Egyptian Nat. Cancer Inst.** 2000; 12: 221-227.
 - 14- **Sayed-Ahmed MM**, Kishk AM, Soloma S and Abdel-aleem S: Protection by L-carnitine against the inhibition of gene expression of heart fatty acid binding

- protein by chronic administration of doxorubicin. **J. Egyptian Nat. Cancer Inst. 2000, 12: 275-281.**
- 15- Osman AM, Gaballa H, Mohamed NH, Ali NM., Sayed-Ahmed MM, Arafa HM : Plasma endothelin(ET-1) as a marker for doxorubicin-induced cardiotoxicity in Egyptian patients. *J.Egypt Soc.Toxicol* 2000; 23: 59-64.
 - 16- Ramadan LA, El-Habit O, Arafa H and **Sayed-Ahmed MM** : Effect of cremophor-El on cisplatin induced organs toxicity in normal rats. **J. Egyptian Nat. Cancer Inst. 2001, 13: 11-17.**
 - 17- **Sayed-Ahmed, M.M.**, Salman T.M., Gaballah, H.E., Abo El-Nagah, S.A., Nicolai, R. and Calvani, M.: Propionyl-L-carnitine as protector against adriamycin-induced cardiomyopathy. **Pharmacol. Res. 2001, 43: 513-520.**
 - 18- Ramadan LA, Shouman SA, **Sayed-Ahmed Mmand** El-Habit OH: Modulation of radiation induced organs toxicity by Cremophor-El in experimental animals. **Pharmacol Res 2001, 43: 185-191.**
 - 19- **Sayed-Ahmed M.M.**, Khattab M.M., Gad M.Z. and Osman A.M.: Increased plasma endothelin-1 and cardiac nitric oxide during doxorubicin-induced cardiomyopathy. **Pharmacology & Toxicology 2001, 89: 140-144.**
 - 20- **Sayed-Ahmed M.M.**, Khattab M.M., Gad M.Z. and Mostafa N.: L-carnitine prevents the progression of Atherosclerotic lesions in hypercholesterolemic rabbits. **Pharmacol Res 2001; 44: 235-242.**
 - 21- **Sayed-Ahmed M.M.**, Shouman S.A., and Ramadan L.A.: Contribution of nitric oxide in doxorubicin-related cytotoxicity in murine tumour model. **J Egyptian Nat Cancer Inst 2002; 14: 111-116.**
 - 22- Arafa H.M. and **Sayed-Ahmed M.M.**: Protective role of carnitine esters against alcohol-induced gastric lesions in rats. **Pharmacol Res 2003; 48: 285-290.**
 - 23- El-Demerdash E., Ali A.A., **Sayed-Ahmed M.M.** and Osman A.M.: New aspects in probucol cardioprotection against doxorubicin-induced cardiotoxicity. **Cancer Chemother and Pharmacol 2003; 52: 411-416.**
 - 24- **Sayed-Ahmed MM**, Eissa MA, Kenawy SA, Mostafa M, Calvani M, Osman AM. Progression of cisplatin-induced nephrotoxicity in a carnitine depleted rat model. **Chemotherapy 2004; 50: 162-170.**
 - 25- **Sayed-Ahmed M.M.**, Mansour H.H., Gharib O.A. and Hafez F.H: Acetyl-L carnitine Modulates bleomycin-induced oxidative stress and energy depletion in lung tissues. **J Egyptian Nat Cancer Inst 2004; 16: 237-243.**

- 26- El-Demerdash E., Awad A.S, Taha R.M, El-Hady A.M., and **Sayed-Ahmed M.M.** Probucol attenuates oxidative stress and energy decline in isoproterenol-induced congestive heart failure in rat. **Pharmacol Res 2005; 51: 311-318.**
- 27- **Sayed-Ahmed M.M** and Mohamed A. M.: Contribution of nitric oxide and epidermal growth factor receptor in antimetastatic potential of paclitaxel in human liver cancer cells (Heb G2). **J Egyptian Nat Cancer Inst 2005; 17: 35-41.**
- 28- Al-Majed A.A., **Sayed-Ahmed M.M.**, Al-Yahya A.A., Aleisa A.M., Al-Rejaie S.S. Al-Shabanah O.A. Propionyl-L-carnitine prevents the progression of cisplatin-induced cardiomyopathy in a carnitine-depleted rat model. **Pharmacol Res 2006; 53: 278-286.**
- 29- Al-Majed A.A., **Sayed-Ahmed M.M.**, Al-Omar F.A., Al-Yahya A.A., Aleisa A.M. and Al-Shabanah O.A.: Carnitine esters prevent oxidative stress damage and energy depletion following transient forebrain ischemia in the rat hippocampus. **Clin Exp Pharmacol Physiol 2006; 33: 725-733.**
- 30 **Kamel M.W., Salama S.A., Saleh S., Osman A.M., Sayed-Ahmed M.M, Al-Hendy A.** Reversal of doxorubicin resistance by adenovirus-mediated transfer of cyclooxygenase-2 antisense in multidrug-resistant MCF-7 cells. **Cancer Therapy 2007; 5: 1-10.**
- 31- **Sayed-Ahmed MM:** Increased Serum and Cardiac Acyl-carnitine/Free Carnitine ratio During Development of Doxorubicin-Induced Cardiotoxicity. **Saudi Pharmaceutical Journal 2007: 15: 120-126.**
- 32- **Sayed-Ahmed MM:** Multidrug resistance to cancer chemotherapy: Genes involved and blockers. **Saudi Pharmaceutical Journal 2007: 15: 161-175.**
- 33- **Sayed-Ahmed MM,** Nagi MN. Thymoquinone supplementation prevents the development of gentamicin-induced acute renal toxicity in rats. **Clin Exp Pharmacol Physiol. 2007 May-Jun; 34(5-6):399-405.**
- 34- Aleisa AM, Al-Majed AA, Al-Yahya AA, Al-Rejaie SS, Bakheet SA, Al-Shabanah OA, **Sayed-Ahmed MM.** Reversal of cisplatin-induced carnitine deficiency and energy starvation by propionyl-L-carnitine in rat kidney tissues. **Clin Exp Pharmacol Physiol. 2007 Dec; 34(12): 1252-9.**
- 35- Al-Rejaie SS, Aleisa AM, Al-Yahya AA, Bakheet SA, Alsheikh A, Fatani AG, Al-Shabanah OA, **Sayed-Ahmed MM.** Progression of diethylnitrosamine-induced hepatic carcinogenesis in carnitine-depleted rats. **World J Gastroenterol. 2009 Mar 21; 15(11):1373-80**

- 36- Al-Shabanah OA, Aleisa AM, Al-Yahya AA, Al-Rejaie SS, Bakheet SA, Fatani AG, **Sayed-Ahmed MM**. Increased urinary losses of carnitine and decreased intramitochondrial coenzyme A in gentamicin-induced acute renal failure in rats. **Nephrol Dial Transplant**. 2010 Jan; 25(1): 69-76.
- 37- Fatani AG, Darweesh AQ, Rizwan L, Aleisa AM, Al-Shabanah OA, **Sayed-Ahmed MM**. Carnitine deficiency aggravates cyclophosphamide-induced cardiotoxicity in rats. **Chemotherapy**. 2010 Mar 19; 56(1): 71-81.
- 38- **Sayed-Ahmed MM**, Al-Shabanah OA, Hafez MM, Aleisa AM, Al-Rejaie SS. Inhibition of gene expression of heart fatty acid binding protein and organic cation/carnitine transporter in doxorubicin cardiomyopathic rat model. **Eur J Pharmacol**. 2010 May 12; 640(1-3): 143-9.
- 39- Nagi MN, Almakki HA, **Sayed-Ahmed MM**, Al-Bekairi AM. Thymoquinone supplementation reverses acetaminophen-induced oxidative stress, nitric oxide production and energy decline in mice liver. **Food Chem Toxicol**. 2010 Jun 1; 48(8-9): 2361-5.
- 40- El-Azab AS, Al-Omar MA, Abdel-Aziz AA, Abdel-Aziz NI, el-Sayed MA, Aleisa AM, **Sayed-Ahmed MM**, Abdel-Hamde SG. Design, synthesis and biological evaluation of novel quinazoline derivatives as potential antitumor agents: molecular docking study. **Eur J Med Chem**. 2010 Jun 16; 45(9): 4188-98.
- 41- Abdel Baky NA, Zaidi ZF, Fatani AJ, **Sayed-Ahmed MM**, Yaqub H. Nitric oxide pros and cons: The role of L-arginine, a nitric oxide precursor, and idebenone, a coenzyme-Q analogue in ameliorating cerebral hypoxia in rat. **Brain Res Bull**. 2010 Jul 15; 83(1-2): 49-56.
- 42- Sayed-Ahmed MM. Progression of cyclophosphamide-induced acute renal metabolic damage in carnitine-depleted rat model. **Clin Exp Nephrol**. 2010 Jul 23, 14(5): 418-26.
- 43- **Sayed-Ahmed MM**. Role of carnitine in cancer chemotherapy-induced multiple organ toxicity. **Saudi Pharmaceutical Journal** (2010) August 5, 18: 195–206.
- 44- **Sayed-Ahmed MM**, Aleisa AM, Al-Rejaie SS, Al-Yahya AA, Othman A. Al-Shabanah OA, Hafez MM, Nagi MN. Thymoquinone attenuates diethylnitrosamine induction of hepatic carcinogenesis through antioxidant signaling. **Oxidative Medicine and Cellular Longevity** 2010 July/August, 3:4, 254-261.
- 45- **Sayed-Ahmed MM**, Darweesh AQ, Fatani AJ. Carnitine deficiency and oxidative

- stress provoke cardiotoxicity in an ifosfamide-induced Fanconi Syndrome rat model. **Oxidative Medicine and Cellular Longevity** 2010 July/August, **3:4**, 266-274.
- 46- Al-shabanah OA, Hafez MM, Al-Harbi MM, Hassan ZK, Al Rejaie SS, Asiri YA, **Sayed-Ahmed MM**. Doxorubicin toxicity can be ameliorated during antioxidant L-carnitine supplementation. **Oxid Med Cell Longev.** 2010 Nov-Dec;**3(6):428-33**.
 - 47- Nagi MN, Al-Shabanah OA, Hafez MM, **Sayed-Ahmed MM**. Thymoquinone Supplementation Attenuates Cyclophosphamide-Induced Cardiotoxicity in Rats. **J Biochem Mol Toxicol.** 2011 May; **25(3):135-42**.
 - 48- **Sayed-Ahmed MM**. L-carnitine attenuates Ifosfamide-Induced Carnitine Deficiency and Decreased Intramitochondrial CoA-SH in Rat Kidney Tissues. **J Nephrol.** 2011 Jul-Aug;**24(4):490-8**.
 49. Alhaider AA, Korashy HM, **Sayed-Ahmed MM**, Mobark M, Kfoury H, Mansour MA. Metformin attenuates streptozotocin-induced diabetic nephropathy in rats through modulation of oxidative stress genes expression. **Chem Biol Interact.** 2011 Jul 15; **192(3):233-42**.
 - 50- El-Subbagh HI, Hassan GS, El-Azab AS, Abdel-Aziz AA, Kadi AA, Al-Obaid AM, Al-Shabanah OA, **Sayed-Ahmed MM**. Synthesis and anticonvulsant activity of some new thiazolo[3,2-a][1,3]diazepine, benzo[d]thiazolo[5,2-a][12,6]diazepine and benzo[d]oxazolo[5,2-a][12,6]diazepine analogues. **Eur J Med Chem.** 2011 Nov; **46(11):5567-72**.
 51. Hafez MM, Hassan ZK, Zekri AR, Gaber AA, Al Rejaie SS, **Sayed-Ahmed MM**, Al Shabanah OA. MicroRNAs and Metastasis-related Gene Expression in Egyptian Breast Cancer Patients. **Asian Pac J Cancer Prev.** 2012;**13(2):591-8**.
 52. Al-Shabanah OA, Aleisa AM, Hafez MM, Al-Rejaie SS, Al-Yahya AA, Saleh A. Bakheet, Mohamed M. Al-Harbi and **Sayed-Ahmed MM**. Desferrioxamine attenuates doxorubicin-induced acute cardiotoxicity through TGF- β /Smad p53 pathway in rat model.. **Oxid Med Cell Longev.** 2012;**2012:619185**. Epub 2012 Apr 30.
 53. Sayed-Ahmed MM, Aldelemy ML, Hafez MM, Al-rejaie SS and Al-Shabanah OA. Inhibition of Gene Expression of Organic Cation/Carnitine Transporter and Antioxidant Enzymes in Oxazaphosphorines-Induced Acute Cardiomyopathic Rat Models. **Oxidative Medicine and Cellular Longevity**, Volume 2012, Article ID 452902, 13 pages doi:10.1155/2012/452902.
 54. **Sayed-Ahmed MM**, Hafez MM, Aldelemy ML, Aleisa AM, Al-Rejaie SS, Al-Hosaini KA, Al-Harbi NO, Al-Harbi MM, Al-Shabanah OA. Downregulation of oxidative and nitrosative apoptotic signaling by L-carnitine in Ifosfamide-induced fanconi syndrome rat model. **Oxid Med Cell Longev.** 2012;**2012:696704**. doi: 10.1155/2012/696704. Epub 2012 Nov 13.

55. El-Azab AS, Abdel-Hamide SG, **Sayed-Ahmed MM**, Hassan GS, El-Hadiyah TM, Al-Shabanah OA, Al-Deeb OA, El-Subbagh **HI**: Novel 4(3H)-quinazolinone analogs: synthesis and anticonvulsant activity. **Med Chem Res (2013) 22:2815–2827.**
56. **Sayed-Ahmed MM**, Hafez MM, Al-Shabanah AA, Al-Rejaie SS, Aleisa AM, Al-Yahya AA, Alsheikh A, Al Diab AI, and AL-Akeely MH. Increased expression of biological markers as potential therapeutic targets in Saudi women with triple-negative breast cancer. **Tumori. 2013; 99(4): 545-54.**
57. Lam T, Chen Z, **Sayed-Ahmed MM**, Krassioukov A, Al-Yahya AA. Potential role of oxidative stress on the prescription of rehabilitation interventions in spinal cord injury. **Spinal Cord. 2013 Sep;51(9):656-62.**
58. Al-Rejaie SS, Aleisa AM, **Sayed-Ahmed MM**, Al-Shabanah OA, Abuohashish HM, Ahmed MM, Al-Hosaini KA, Hafez MM Protective effect of rutin on the antioxidant genes expression in hypercholesterolemic male Westar rat. **BMC Complement Altern Med. 2013 Jun 17;13:136. doi: 10.1186/1472-6882-13-136.**
59. Al-Shabanah OA, Hafez MM, Hassan ZK, **Sayed-Ahmed MM**, Abozeed WN, Al-Rejaie SS, Alsheikh AA. Human papillomavirus genotyping and integration in ovarian cancer Saudi patients. **Virol J. 2013 Nov 20;10(1):343.**
60. **Sayed-Ahmed MM**, Aldelemy ML, Al-Shabanah OA, Hafez MM, Al-Hosaini KA, Al-Harbi NO, Al-Sharary SD, Al-Harbi MM. Inhibition of Gene Expression of Carnitine Palmitoyltransferase I and Heart Fatty Acid Binding Protein in Cyclophosphamide and Ifosfamide-Induced Acute Cardiotoxic Rat Models. **Cardiovasc Toxicol. 2014 Jan 28. [Epub ahead of print]**
61. Al-Shabanah OA, Hafez MM, Hassan ZK, **Sayed-Ahmed MM**, Abozeed WN, Alsheikh A, Al-Rejaie SS: Methylation of SFRPs and APC Genes in Ovarian Cancer Infected with High Risk Human Papillomavirus. **Asian Pac J Cancer Prev. 2014; 15(6):2719-25.**
62. Nadeem A, Siddiqui N, Alharbi NO, Alharbi MM, Imam F, **Sayed-Ahmed MM**: Glutathione modulation during sensitization as well as challenge phase regulates airway reactivity and inflammation in mouse model of allergic asthma.. **Biochimie. 2014 Apr 14. pii: S0300-9084(14)00110-2. doi:**
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