

## **Publications:**

1. **Aleisa AM**, Al-Majed AA, Al-Yahya AA, Al-Rejaie SS, Bakheet SA, Al-Shabanah OA, and Sayed-Ahmed MM. Reversal by Propionyl-L-carnitine of Cisplatin-Induced Carnitine Deficiency and Energy Starvation in Rat Kidney Tissues. *Clin Exp Pharmacol Physiol*. 2007 Dec;34(12):1252-9.
2. KH Alzoubi, **AM Aleisa**, KA Alkadhi. The sliding threshold of modification hypothesis: Application to the effect of hypothyroidism or chronic psychosocial stress and nicotine on synaptic plasticity. *Neurosci Lett*. 2008 Jan 17;430(3):203-6. Epub 2007 Nov 6.
3. KH Alzoubi, **AM Aleisa**, KA Alkadhi. Levothyroxin restores Hypothyroidism-Induced Impairment of Hippocampus-dependent Learning and Memory. (Submitted)
4. **Aleisa, A.M.**, S.S. Al-Rejaie, S.A. Bakheet, A.M. Al-Bekari, O.A. Al-Shabanah, A. Al-Majed, A.A. Al-Yahya, and S. Qureshi, Effect of metformin on clastogenic and biochemical changes induced by adriamycin in Swiss albino mice. *Mutat Res*, 2007.
5. Alzoubi, K.H., **A.M. Aleisa**, and K.A. Alkadhi, Nicotine prevents disruption of the late phase LTP-related molecular cascade in adult-onset hypothyroidism. *Hippocampus*, 2007. **17**(8): p. 654-64.
6. Alzoubi, K.H., **A.M. Aleisa**, and K.A. Alkadhi, Adult-onset hypothyroidism facilitates and enhances LTD: reversal by chronic nicotine treatment. *Neurobiol Dis*, 2007. **26**(1): p. 264-72.
7. Khattab, M.M., M.B. Al-Rawi, and **A.M. Aleisa**, Postjunctional synergism of norepinephrine with ATP and diadenosine tetraphosphate in Guinea pig vas deferens. Role of protein kinase C and Myosin light chain phosphatase. *Pharmacology*, 2007. **80**(1): p. 27-32.
8. Alzoubi KH, **Aleisa AM**, Gerges NZ, Alkadhi KA. Nicotine reverses adult-onset hypothyroidism-induced impairment of learning and memory: Behavioral and electrophysiological studies. *J Neurosci Res*. 2006 Oct;84(5):944-53.
9. Alzoubi KH, **Aleisa AM**, Alkadhi KA. Molecular studies on the protective effect of nicotine in adult-onset hypothyroidism-induced impairment of long-term potentiation. *Hippocampus*. 2006;16(10):861-74.
10. Al-Majed AA, Sayed-Ahmed MM, Al-Omar FA, Al-Yahya AA, **Aleisa AM**, Al-Shabanah OA. Carnitine esters prevent oxidative stress damage and energy depletion following transient forebrain ischaemia in the rat hippocampus. *Clin Exp Pharmacol Physiol*. 2006 Aug;33(8):725-33.

11. **Aleisa AM**, Alzoubi KH, Alkadhi KA. Chronic but not acute nicotine treatment reverses stress-induced impairment of LTP in anesthetized rats. *Brain Res.* 2006 Jun 30;1097(1):78-84.
12. **Aleisa AM**, Alzoubi KH, Gerges NZ, Alkadhi KA. Chronic psychosocial stress-induced impairment of hippocampal LTP: possible role of BDNF. *Neurobiol Dis.* 2006 Jun;22(3):453-62.
13. Al-Majed AA, Sayed-Ahmed MM, Al-Yahya AA, **Aleisa AM**, Al-Rejaie SS, Al-Shabanah OA. Propionyl-L-carnitine prevents the progression of cisplatin-induced cardiomyopathy in a carnitine-depleted rat model. *Pharmacol Res.* 2006 Mar;53(3):278-86.
14. **Aleisa AM**, Alzoubi KH, Gerges NZ, Alkadhi KA. Nicotine blocks stress-induced impairment of spatial memory and long-term potentiation of the hippocampal CA1 region. *Int J Neuropsychopharmacol.* 2006 Aug;9(4):417-26.
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19. Alzoubi KH, Bedawi AS, **Aleisa AM**, Alkadhi KA. Hypothyroidism impairs long-term potentiation in sympathetic ganglia: electrophysiologic and molecular studies. *J Neurosci Res.* 2004 Nov 1;78(3):393-402.
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### **Abstracts:**

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5. **A. M. Aleisa**; K. H. Al-Zoubi; N. Z. Gerges, NZ; K. A. Alkadhi. "Chronic nicotine treatment prevents stress-induced short term memory impairment" *Soc. Neuroscience*, 2003.
6. KH Al- zoubi, **AM Aleisa**, AS Bedawi, KA Alkadhi. "Chronic nicotine treatment reverses hypothyroid-induced impairment of hippocampus -dependent learning and memory" *Soc. Neuroscience*, 2003.
7. DC Eikenburg, KH Al-Zoubi, AS Bedawi, **AM Aleisa** and KA Alkadhi. "Elevation of phosphorylated-CaMKII in superior cervical ganglia from stressed rats" *Soc. Neuroscience*, 2003.
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13. T.T. Tran, **A.M. Aleisa**, K.H. Alzoubi, K.A. Alkadhi. "CHRONIC BUT NOT ACUTE NICOTINE TREATMENT REVERSES STRESS-INDUCED IMPAIRMENT OF LTP IN ANESTHETIZED RATS" Soc. Neuroscience, 2005.
14. K.H. Alzoubi, **A.M. Aleisa**, K.A. Alkadhi. "CHRONIC NICOTINE TREATMENT RESTORES HYPOTHYROIDISM INDUCED L-LTP IMPAIRMENT: CRITICAL ROLE OF CREB" Soc. Neuroscience, 2005.
15. **A.M. Aleisa**, K.H. Alzoubi, N.Z. Gerges, K.A. Alkadhi. "CHRONIC NICOTINE TREATMENT PREVENTS STRESS-INDUCED IMPAIRMENT OF LTP: A POSSIBLE INVOLVEMENT OF PROTEIN KINASE ACTIVATION" Soc. Neuroscience, 2005.
16. **A. M. Aleisa**, M. Sayed-Ahmed, F. AL-Omar, A. AL-Yahya, O. Al-Shabanah, S. Al Rejaie, A. Al-Majed. "Carnitine esters prevents oxidative stress damage and energy depletion following transient forebrain ischemia in the rat hippocampus" Soc. Neuroscience, 2006.
17. K. H. Alzoubi, **A. M. Aleisa**, K. A. Alkadhi. " Hypothyroidism-induced enhancement of LTD: reversal by nicotine and possible role of NMDA receptors" Soc. Neuroscience, 2006.