



- **Dr. Rasha M. Hussein**
- **Assistant Professor**
- **Department of Pharmaceutics and Pharmaceutical Technology / Faculty of Pharmacy**

Education

- Ph.D. in Biochemistry, Beni-Suef University in collaboration with Groningen University, The Netherlands (2014)
- Master degree in Biomedicine, Lund University, Sweden (2010)
- Bachelor of Pharmaceutical sciences, Cairo University, Beni-Suef Branch, Egypt (2004)

Research Interests

- Protein aggregation diseases
- Cancer
- Antioxidants
- Organ toxicity

Contact Details

Office Tel.:

Faculty Fax No.: 032397180

Mobile No.: 0791077617

Email: Rasha.hussein@mutah.edu.jo
rasha.hussein@pharm.bsu.edu.eg
dr_rashamohamed2007@yahoo.com

Publications

- Lambert, W., Rutsdottir, G., Hussein, R., Bernfur, K., Kjellström, S., & Emanuelsson, C. (2013). Probing the transient interaction between the small heat-shock protein Hsp21 and a model substrate protein

using crosslinking mass spectrometry. *Cell Stress and Chaperones*, 18(1), 75-85.

- Månsson, C., Arosio, P., Hussein, R., Kampinga, H.H., Hashem, R.M., Boelens, W.C., Dobson, C.M., Knowles, T.P.J., Linse, S. and Emanuelsson, C. 2014a. Interaction of the molecular chaperone DNAJB6 with growing amyloid-beta 42 (A β 42) aggregates leads to sub-stoichiometric inhibition of amyloid formation. *The Journal of biological chemistry* 289(45),31006-31076.
- Hussein, R. M., I. J. Benjamin and H. H. Kampinga (2015). "Rescue of α B Crystallin (HSPB5) Mutants Associated Protein Aggregation by Co-Expression of HSPB5 Partners." Plos one. e0126761.
- Hussein, R. M., R. M. Hashem and L. A. Rashed (2015). "Evaluation of the amyloid beta-GFP fusion protein as a model of amyloid beta peptides-mediated aggregation: A study of DNAJB6 chaperone. *Frontiers in Molecular Neuroscience* 8.
- T Motawi, OG Shaker, RM Hussein , M Houssen (2016). Polymorphisms of α 1-antitrypsin and Interleukin-6 genes and the progression of hepatic cirrhosis in patients with a hepatitis C virus infection. *Balkan Journal of Medical Genetics* 19 (2)
- RM Hussein.-Biochemical relationships between bone turnover markers and blood glucose in patients with type 2 diabetes mellitus. *Diabetes and Metabolic Syndrome Clinical Research and Reviews*. Volume 11, Supplement 1, S369-S372
- WR Mohamed, ABM Mehany, RM Hussein, Alpha lipoic acid protects against chlorpyrifos-induced toxicity in Wistar rats via modulating the apoptotic pathway. *Environmental toxicology and pharmacology* 59, 17-

23.

- RM Hussein, WR Mohamed, HA Omar. A neuroprotective role of kaempferol against chlorpyrifos-induced oxidative stress and memory deficits in rats via GSK3 β -Nrf2 signaling pathway. *Pesticide Biochemistry and Physiology*, In Press

<ul style="list-style-type: none"> ▪ د. رشا محمد حسين ▪ أستاذ مساعد ▪ قسم الصيدلانيات والتقنية الصيدلانية / كلية الصيدلة 	
<ul style="list-style-type: none"> ▪ دكتوراه في الكيمياء الحيوية من كلية الصيدلة بجامعة بني سويف – مصر بالتعاون مع جامعة خرونينجن بهولندا (2014) ▪ ماجستير في الطب الحيوي من جامعة لوند بالسويد (2010) ▪ بكالوريوس العلوم الصيدلانية من جامعة القاهرة – فرع بني سويف – مصر (2004) 	<p style="text-align: center;">الدراسة</p>
<ul style="list-style-type: none"> ▪ امراض تجمعات البروتينات ▪ أبحاث السرطان ▪ مضادات الاكسدة ▪ سمية الأعضاء 	<p style="text-align: center;">مجالات الأبحاث</p>
<p style="text-align: center;">فاكس الكلية: 032397180</p>	<p style="text-align: center;">رقم المكتب :</p>
<p style="text-align: center;">بريد الكتروني</p> <p style="text-align: center;">rasha.hussein@mutah.edu.jo rasha.hussein@pharm.bsu.edu.eg dr_rashamohamed2007@yahoo.com</p>	<p style="text-align: center;">رقم الخليوي:</p> <p style="text-align: center;">0791077617</p>
<ul style="list-style-type: none"> ▪ Lambert, W., Rutsdottir, G., Hussein, R., Bernfur, K., Kjellström, S., & Emanuelsson, C. (2013). Probing the transient interaction between the small heat-shock protein 	<p style="text-align: center;">الأبحاث المنشورة</p>

Hsp21 and a model substrate protein using crosslinking mass spectrometry. *Cell Stress and Chaperones*, 18(1), 75-85.

- Månsson, C., Arosio, P., Hussein, R., Kampinga, H.H., Hashem, R.M., Boelens, W.C., Dobson, C.M., Knowles, T.P.J., Linse, S. and Emanuelsson, C. 2014a. Interaction of the molecular chaperone DNAJB6 with growing amyloid-beta 42 (A β 42) aggregates leads to sub-stoichiometric inhibition of amyloid formation. *The Journal of biological chemistry* 289(45),31006-31076.
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- RM Hussein.-Biochemical relationships between bone turnover markers and blood glucose in patients with type 2 diabetes mellitus. *Diabetes and Metabolic Syndrome Clinical Research and Reviews*. Volume 11, Supplement 1, S369-S372

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| <ul style="list-style-type: none">▪ WR Mohamed, ABM Mehany, RM Hussein, Alpha lipoic acid protects against chlorpyrifos-induced toxicity in Wistar rats via modulating the apoptotic pathway. <i>Environmental toxicology and pharmacology</i> 59, 17-23.▪ RM Hussein, WR Mohamed, HA Omar. A neuroprotective role of kaempferol against chlorpyrifos-induced oxidative stress and memory deficits in rats via GSK3β-Nrf2 signaling pathway. <i>Pesticide Biochemistry and Physiology</i>, In Press | |
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