

Curriculum Vitae

<p>Name : Mohamed Essa Khatatbeh Date of Birth : 01/26/ 1959 Place of birth: Kofranjah-Jordan. Nationality : Jordanian. Social status : Married. e-mail: alessam1@yahoo.com; malessa@ju.edu.jo</p>	
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Qualifications:

- Ph.D. Physiology. Aug. 1999. Full time student, Medical College of Virginia. Virginia Commonwealth University. Richmond VA/ USA.

Thesis title:

"THE REGULATION BY INTERLEUKIN-10 OF SUBSTANCE P CONTENT IN MYENTERIC PLEXUS OF THE ADULT GUINEA PIG SMALL INTESTINE"

Supervisor: **Prof. John R. Grider**

- M.D. Sept. 1984, University of Medicine and Pharmacy (Universitate de Medicina si Farmacia Iuliu Hatieganu) - Cluj-Napoca/ Romania.

Training courses:

- Training program in: "The Basics of Medical Education"
The University of Jordan, December 22nd-27th, 2001

- Advanced theoretical and practical course in:
"Recombinant DNA Technology and Protein Expression". Held by FEBS (Federation of European Biochemical Societies) and Romanian Society of Biochemistry and Molecular Biology at Bucharest, Romania, June 23rd-29th 2005.

- CRA Training Course in:
"Introduction to Clinical Project Management"

“Introduction to Clinical Research and ICH GCP for Clinical Trial Monitors”

“Trial Site Management” and “EU Clinical Trials Directive”
held by Pharmaquest JO, Amman, Jordan. October 6th–10th
2008.

-Training Courses in Cytometry: “Functional Cytometry: Understanding and Applying Cytomic Assays”. “Cytomics in Drug Research and Toxicology: A Functional Approach”.

Second International Summer School on Cytometry. Held by European Society for Clinical Cell Analysis (ESCCA). Valencia, Spain. July 7th - 18th, 2014

Mastered Techniques:

- Isolation of adipose derived stem cells from human fat.
- Isolation of intestinal ganglia and cultures of myenteric neurons.
- Fluorescent staining of cultured myenteric neurons.
- Isolation of gastro-intestinal smooth muscle cells and micrometric studies.
- Studies on Gastrointestinal preparations using Powerlab system
- Radio-Immuno-Assay.
- Spectrofluorometry using RF-5301-PC Shimadzo spectrofluorometer.
- Fluorescent labeling of oligonucleotides.
- Preparation of beads or other surfaces for insertion of antibodies or other amine containing molecules.
- Insertion of bioactive molecules and fluorescent compounds over biological membranes and liposomes.

Research interests:

- I'm focusing now on optimizing conditions for conjugation of fluorescent dyes with (oligonucleotides) which can be developed for specific use in Biomedical assays.
- In future I will continue on conjugation of aptamers with bioactive molecules to get bifunctional structures for use in therapy and/or targeted therapeutic delivery.

Awards:

- DAAD scholarship at **Translational centre for Regenerative Medicine (TRM)** of Leipzig University between July 15 – August 31st , 2015 and December 16 – January 31st , 2016.

Attended Workshops, Scientific meetings and Conferences:

- **Digestive Disease Week**, Washington, D.C. USA; May 11-14th , 1997.

- **Digestive Disease Week**. Orlando, FL, USA. May 16-19th , 1999,

- **VI European Meeting on Glial Cell Function in Health and Disease**, Berlin, Germany, Sept 3-6th , 2003.

- **FEBS Satellite Meeting on Protein folding and transport in health and disease**, Bucharest, Romania, June 30-July 1st , 2005.

- **AACR international Conference**, Advances in cancer research: from the laboratory to the clinic, Dead Sea, Jordan. March, 16-19th , 2008.

- **Myocardial protection from Lab to Man**. Jordan University of Science and Technology, Faculty of Medicine, Irbid-Jordan, May 20 – 22nd , 2008.

- **Daylong workshop on Clinical Trials "MEDIA OUTREACH"**; The Le Royal, Amman- Jordan. July, 1st , 2008.

- **Nanostructured Advanced Material and Technology Conference**, University of Jordan, Amman, Jordan. Nov. 10 -13, 2008,

- **Myocardial protection from Bench to Clinical Application**. Jordan University of Science and Technology, Irbid-Jordan , May 2 – 5th ., 2009

- **The First Pan Arab Conference on Thoracic, Cardiac and Vascular Surgery**. Jordanian Association of Thoracic and Cardio Vascular Surgeons. The Le Royal, Amman-Jordan, September 29th - October 1st , 2009.

-The Fourth Conference on Scientific Research in Jordan,
Jordan Society for Scientific Research, Amman-Jordan, November
7th , 2009.

-Writing Proposal for FP7 People Programme workshop,
University of Jordan, April 13, 2010.

-FP7 Week, University of Jordan, May 9th – 13th 2010.

**-1st Jordanian Romanian Conference of Medicine and
Pharmacy,** Amman-Jordan, June 28th , 2010.

-WIPO National Workshop On Patent Drafting, Higher council
for Science and Technology, Amman-Jordan, Nov. 7-11 , 2010.

- Workshop in:“ Probleme Based Learning ” The University of
Jordan, April 26th-27th , 2011.

- Workshop in:“ Probleme Based Learning ” The University of
Jordan, March, 6th - 7th , 2012.

-The 30th World Congress of Biomedical Laboratory Sciences,
Berlin – Germany, August, 18th -22nd , 2012.

Employment Experience:

- Assistant Professor / Department of physiology, Faculty of Medicine, University of Jordan. Feb, 2010 – present.
- General Manager at Philadelphia Biological and Medical Product Development Center, Feb 2008 – Feb, 2010.
- Part time lecturer at the Department of Physiology and Biochemistry/Faculty of Medicine/ University of Jordan, 2nd semester academic year 2007-2008 and 1st and 2nd semesters 2008-2009. (Feb. 2008- Feb. 2010).
- Assistant Professor / Department of physiology, Faculty of Medicine, University of Jordan. Feb, 2000 – Feb, 2008.
- Lecturer/ Department of Physiology, Faculty of Medicine, University of Jordan. Aug, 1999 – Feb, 2000.

- Full time Ph.D student at Medical College of Virginia-VCU, Aug, 1995-Aug, 1999
- Teaching and Research Assistant/ Department of Physiology, Faculty of Medicine, University of Jordan. Aug, 1988 – Jun, 1995.
- Physician/ Ministry of Health Clinics. Feb, 1988 – Aug, 1988.
- Physician/ Royal Medical Services. Sept, 1985- Sept, 1987.
- Rotational Training / Ministry of Health Hospitals Oct. 1984- Sept. 1985.

Teaching Experience: Teaching language for all courses is English

- Medical and Dental undergraduate Physiology course: Introduction to Physiology, Nerve and Muscle physiology, Gastro-Intestinal Physiology. Physiology of special senses.
- Pharmacy, Nursing, and Rehabilitation undergraduate Physiology course: Introduction to Physiology, Nerve and Muscle Physiology, Blood and body fluids Physiology, Cardiovascular Physiology and Gastro-Intestinal Physiology, Endocrine and Reproductive Physiology
- Nursing master students Pathophysiology course: Blood and body fluids pathophysiology and Gastro-Intestinal Pathophysiology.
- Dental Master students: Topics in Gastrointestinal and Blood & Body fluids Pathophysiology.

Publications:

1. Jin, J-G, K. S. Murthy, **M. Al-Essa**, J. R. Grider and G. M. Makhlof. ANP-clearance receptor (NPR-C) mediates VIP/PACAP-induced activation of eNOS. *Gastroenterology* 112: A1159, 1997.
2. **Al-Essa M.**, B. Q. Teng., and J. R. Grider. Regulation of substance P content in cultured myenteric neurons by interleukin-10. *Gastroenterology*, 116: A589, 1999.
3. Faisal I. Mohammed, **Mohammed K Al-Essa**, Yanal A. Shafagoj and Fatma U. Afifi. Investigation of the direct effects of the alcoholic extract of *Elaeagnus angustifolia L.* (Elaeagneaceae) on dispersed intestinal smooth muscle cells of guinea pigs. *Scientia Pharmaceutica* 74: 21-30, 2006.
4. **Mohammed K Al-Essa**, Faysal I. Mohammed, Yanal A. Shafagoj and Fatma U. Afifi. Studies on the direct effects of the alcoholic extract of *Tilia cordata* on dispersed intestinal smooth muscle cells of guinea pigs. *Pharmaceutical Biology*, 45 (3): p246-250, 2007.
5. Ahmad A. Suleiman, Omar K. Alboqai, Nada Yasein, **Mohamed Al-Essa**, Khader El Masri. Prevalence of vitamin-mineral supplement use among Jordan University students. *Saudi Medical Journal* Vol. 29 (9): 1326-1331, 2008.
6. Khaled R. Alzaben, Sami A. Abu-Halaweh, Abdel Karim S. Aloweidi, Zuhair A. Bani Ismail, Iyad A. Al-Ammouri, **Mohamed K. Al-Esa**, Samir K. Jabaiti, Moaath M. Alsmady and Mahmoud Abu-Abeeleh. Use of the Nasal Speculum for Rat Endotracheal Intubation. *American Journal of Applied Sciences*, Vol 6(3): 507-511, 2009.
7. Zuhair Bani Ismail, Mahmoud Abu Abeeleh, Khaled R. Alzaben, Sami A. Abu-Halaweh, Abdel Karim S. Aloweidi, Iyad A. Al-Ammouri, **Mohamed K. Al-Essa**, Samir K. Jabaiti, Moaath M. Alsmady and Ahmad Al-Majali. Effects of experimental acute myocardial infarction on blood cell counts and plasma biochemical values in a nude rat model (CrI:NIH-Fox1^{RNU}). *Comparative Clinical Pathology*, Volume 18 (4), pp. 433-437, 2009.

8. Mahmoud Abu Abeeleh, Zuhair Bani Ismail, Khaled R. Alzaben, Sami A. Abu-Halaweh, **Mohamed K. Al-Essa**, Jaafar Abuabeeleh, Moaath M. Alsmady. Induction of Diabetes Mellitus in Rats Using Intraperitoneal Streptozotocin: A Comparison between 2 Strains of Rats. *European Journal of Scientific Research*, Vol.32 (3), pp.398-402, 2009.
9. **Mohammed K. Al-Essa**, Yanal A. Shafagoj, Faysal I. Mohammed, Fatma U. Afifi. Relaxant effect of ethanol extract of *Carum carvi* on dispersed intestinal smooth muscle cells of the guinea pig. *Pharmaceutical Biology*. 48 (1): 76-80, 2010.
10. Mahmoud Abu-Abeeleh, Zuhair A. Bani Ismail, Khaled R. Alzaben, Sami A. Abu-Halaweh, Abdelkarim S. Aloweidi, Iyad A. Al-Ammouri, **Mohamed K. Al-Essa**, Sameer K. Jabaiti, Jaafar Abu-Abeeleh, Moaath M. Alsmady and Omar Alshobaki. A preliminary study of the use of human adipose tissue-derived stem cells for the treatment of streptozotocin-induced diabetes mellitus in a rat model. *Comparative Clinical Pathology*, 19 (1) 1-4, 2010.
11. Mahmoud Abu-Abeeleh, Ismail Matalka, Zuhair A. Bani Ismail, Khaled R. Alzaben, Sami A. Abu-Halaweh, Abdelkarim S. Aloweidi, Iyad A. Al-Ammouri, **Mohamed K. Al-Essa**, Sameer K. Jabaiti, Moaath M. Alsmady, Omar Alshobaki, Mohammad Alqudah, Samir Albashir, Raed Ennab, Mohammad Jamous, Ahmad Al-Majali & Jaafar Abu-Abeeleh. Efficacy of human adipose tissue-derived stem cells in cardiac muscle repair in an experimental acute myocardial infarction model using nude rats (CrI:NIH-Fox1RNU). *Comparative Clinical Pathology*, 19(6) 593-600, 2010.
12. Z Bani Ismail, N Abu-Baker, K Alzoubi, M Al-Zghoul, **M K Al-Essa**, S Khlouf, A Al-Saleh, B Al-Omari, R Abu-Tayeh, M Shomaf, A Battah, and K Al-Hadidi. Evaluation of α -D-ribofuranose (D-ribose) toxicity after intravenous administration to rabbits. *Human & Experimental Toxicology*, 31(8): 820-829, 2012
13. **Mohamed K. Al-Essa**, Nareman Abu Baker, Karem Alzoubi, Mohammad Borhan Al-Zhgoul, Shereen Khlouf, Abdel-Rahman Al-Saleh, Bilal Al-Omary, Reem Abu-Tayeh, Maha Shomaf, Abdelkader Battah, Kamal Al-Hadidi and Zuhair Bani Ismail. Evaluation of subacute toxic effects of isotonic D-ribose solution administered intravenously to Fischer rats. *Jordan Journal of Pharmaceutical Sciences*, 5 (2): 111-119, 2012.

14. Shatarat A, Abuhamdah S , **Al-Essa M**, Mohammed F and Al-Olimat S. Pharmacological Effects of *Peganum Harmala L.* Root Extract on Isolated Rat small Intestine. *Pharmacognosy Communications* 4 (3), 56-61, 2014.