



# Mohammad Ahmad Suleiman Bani-Ahmad

**Associate Professor / Hematology and Transplantation Sciences**

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## Education

**Doctor of Science (D. Sc.)** Aug 2005 – Jun 2009

**Clinical Sciences / Hematology and Transplantation Sciences**

University of Kentucky, Lexington, KY, USA

**Master of Science (M. Sc.)** Aug 2001 – Jun 2004

**Medical Laboratory Sciences / Hematology and Blood Banking**

Jordan University of Science and Technology, Irbid, Jordan

**Bachelor of Science (B. Sc.)** Aug 1996 – Jun 2001

**Medical Laboratory Sciences**

Jordan University of Science and Technology, Irbid, Jordan



## Academic Experiences

**Associate professor** Oct 2022 – >>>

Department of medical laboratory sciences / Faculty of Pharmacy  
Jadara University / Irbid, Jordan

**Associate professor** Feb 2018 – Oct 2022

Department of medical laboratory sciences / Faculty of applied medical sciences  
Jordan University of Science and Technology (JUST) Irbid, Jordan

**Assistant professor** Dec 2009 – Feb 2018

Department of medical laboratory sciences Faculty of applied medical sciences  
Jordan University of Science and Technology (JUST) Irbid, Jordan

**Full-Time Lecturer** Sep 2009 – Dec 2009

Department of medical laboratory sciences Faculty of applied medical sciences  
Jordan University of Science and Technology (JUST) Irbid, Jordan

**Research assistant** Feb 2006 – Aug 2008

Department of clinical sciences / College of health sciences  
University of Kentucky, Lexington, KY, USA



## Administrative Experience

### Chairman (Acting Head)

Sep 2018 – Apr 2022

Department of medical laboratory sciences / Faculty of applied medical sciences  
Jordan University of Science and Technology (JUST) Irbid, Jordan

### Chairman (Acting Head)

Sep 2010 – Sep 2012

Department of medical laboratory sciences / Faculty of applied medical sciences  
Jordan University of Science and Technology (JUST) Irbid, Jordan



## Memberships/Committees

### International Memberships

#### European Hematology Association (EHA) (ID. No. 031018)

Koninginnegracht 12B, 2514 AA Den Haag, Netherlands

#### International Society of Blood Transfusion (ISBT).

Marnixstraat 3171016 TB Amsterdam, The Netherlands.

### National Committees

#### 2015 Member of the *Higher Education Accreditation Committee*:

For the accreditation of the Medical Laboratories Sciences program at *Al-Albayt University*, Al-Mafraq / Jordan

#### 2013 Member of the *Higher Education Accreditation Committee*:

For the accreditation of the Medical Laboratories Sciences program at *the Al-Ahlyia Amman University* (Amman / Jordan)

#### 2012: Member of the *Higher Education Accreditation Committee*:

For the accreditation of the Medical Laboratories Sciences program at *Mutah University* (Alkarak / Jordan)

2012: Member of **Licensing and practicing professions granting committee** (Ministry of Health, Amman, Jordan).

2011: Member of the committee assigned to revise the Medical Laboratory regulations and accreditation (Ministry of Health, Amman, Jordan).

### Institutional Committees

#### (2018-2019) Member of the *Animals Care Unit Committee*.

The duty of this committee is to review and approve research projects to be conducted on laboratory (experimental) animals.

(2013) Member of the *examination and interviewing committee* of applicants to laboratory Technician job position at *JUST medical Center*.

2010-2012: Member of the *Graduate Studies Committee*: Representative of the Faculty of Applied Medical Sciences.

## Memberships (Cont.)

### Faculty of Applied Medical Sciences Committees

**2022:** Member of the committee for the renewal of the accreditation of the faculty of Applied Medical Sciences by **Accreditation service of International Schools (ASIC)**.

**2018- 2022:** Member of the Faculty Council: Chairman of the Department of Medical Laboratory Science.

**2018- 2022:** Member of the Graduate studies committee at the FAMS

**2010- 2012:** Member of the Faculty Council: Chairman of the Department of Medical Laboratory Science.

**2010- 2012:** Member of the Graduate studies committee at the FAMS

**2009-2010:** Member of the Faculty of Applied Medical Sciences Council: Representative of the department of Medical Laboratory Sciences.

**2010-2012:** Member of the Faculty of Applied Medical Sciences Council: As a chairman of the Department of Medical Laboratory Sciences.

**2011:** Member of the committee assigned for the foundation of ***“Dress Code in practical medical fields”***.

**2011:** Member of the committee assigned for the foundation of ***“Code of conduct”*** in the faculty of Applied Medical Sciences.

### Departmental Committees

Served as a **(Head/Member)** of several committees in the department of Medical Laboratory Sciences (MLS)

(2018 – 2022) Head of the Graduate studies committee

(2018 – 2022) Head of the Academic Curriculum, Training, and Accreditation

(2012 – 2018) Member of the Academic Curriculum, Training, and Accreditation

(2010 – 2012) Head of the Graduate studies committee

(2010 – 2022) Member of the research committee

## Awards

**M.S. Rawlins award** (Fall 2008/2009):

College of Health Sciences, University of Kentucky, Lexington, KY

**Rock-Castle award** (Fall 2008/2009):

Graduate School, University of Kentucky, Lexington, KY

**M. S. Rawlins award** (Spring 2007/2008):

College of Health Sciences, University of Kentucky, Lexington, KY

**Mohammad A. Bani-Ahmad**, Ayman G. Mustafa, Abdelraheem A. Bani Ahmad, Islam E. Alkhazali, Ahmad A. Rahim. Evidence on the Heroin-mediated impairment of the oxidative status of Erythrocytes. *Journal of Toxicology* 2022, 2022. (DOI: 10.1155/2022/3996051).

**Mohammad A. Bani-Ahmad**, Marya M. Obeidat, Marah H. Ahmad, Mousa Barqawi. The modulation of Plasma Levels of Dopamine, Serotonin and BDNF in Children with Iron Deficiency Anemia. *Acta Biomedica*. 2022: 93 (6) (DOI: 10.23750/abm.v93i6.13276 )

**Mohammad A. Bani-Ahmad**, Noor E. S. Abu Tayyem. The impact of iron deficiency on the endocrine and exocrine pancreatic function: Assessment of serum levels of Insulin, Glucagone and Amylase. (On preparation)

Belal A. Al-Husein, **Mohammad A. Bani Ahmad**, Rand M. Nofal. Synergistic Effect of Imatinib and Survivin Inhibitor on Imatinib-Sensitive and Imatinib-Resistant Chronic Myeloid Leukemia Cell Lines. (On preparation)

Refat Nimer, **Mohammad Bani Ahmad**, Ezzat A. Alhabbal, Motaz A.Obeidat. Association between lipid peroxidation markers and well-established diabetic nephropathy tests in patients of type 2 diabetes with diabetic nephropathy. (On preparation)

**Mohammad Bani-Ahmad**, Suleiman Al-Sweedan, Mohammad Al-Asseiri, Ahed. Alkhatib. A proposed kinetic model for the diagnostic and prognostic value of WT1 and P53 in Acute Myeloid Leukemia. *Clin Lab*. 2018; 64 (3) :357-363.

**Mohammad Bani-Ahmad**, Ayman Mustafa, Abdelraheem Bani-Ahmad, Ahmed M. Abdal Rahim. Assessment of Oxidative Stress of Platelets among Chronic Heroin and Hashish Addicts. *Hum Exp Toxicol* 2018;37(10):1017-1024

**Bani-Ahmad MA**, Khabour OF, Gharibeh MY, Alshloul KN. The impact of multiple blood donations on the risk of cardiovascular diseases: Insight of lipid profile. *Transfus Clin Biol*. 2017; 24(4): 410-416.

Mustafa AG, **Bani-Ahmad MA**, Jaradat AQ, Allouh MZ. Tempol protects blood proteins and lipids against peroxy-nitrite-mediated oxidative damage. *Exp Biol Med*. 2015; 240(1):109-12.

Alqudah M, Qandeel H, Al-Zoubi N, Alqudah A, **Bani-Ahmad M**, Alzoubi A. Changes of serum growth factors profiles in patients with venous thromboembolism. *Scand J Clin Lab Invest*. 2017; 77(8): 595-600.

Khabour OF, Alzoubi KH, **Bani-Ahmad M**, Dodin A, Eissenberg T, Shihadeh A., "Acute exposure to waterpipe tobacco smoke induces changes in the oxidative and inflammatory markers in mouse lung.," *Inhalation Toxicology*, 2012; 24 (10):667-675.



## Publication (Cont.)

Muhammed Al-Jarrah, **Mohammed Bani Ahmad**, Mikhled Maayah, Ahed Al-Khatib. Effect of Exercise Training on the Expression of p53 and iNOS in the Cardiac Muscle of Type I Diabetic Rats. *J Endocrinol Metab*, 2012; 2(4-5): 176-180.

Khabour OF, **Bani-Ahmad** MA, Hammash NM. Association between polymorphisms in erythropoietin gene and upper limit haematocrit levels among regular blood donors. *Transfus Clin Biol*. 2012; 19(6):353-7.

**Bani-Ahmad M**, El-Amouri IS, Tang-Feldman Y, Lin F, Ko C, Pomeroy C, Oakley OR. Role of Decay Accelerating Factor (DAF/CD55) in the immunopathogenesis of murine cytomegalovirus (MCMV). *Clin Exp Immunol*. 2011 Feb;163(2):199-206.

El-Amouri IS, **Bani-Ahmad M**, Tang-Feldman Y, Lin F, Ko C, Pomeroy C, Oakley OR. Increased morbidity and mortality in murine cytomegalovirus-infected mice following allogeneic bone marrow transplant is associated with reduced surface decay accelerating factor expression. *Clin Exp Immunol*. 2010 Nov;162(2):379-91.

Inayat MS, El-Amouri IS, **Bani-Ahmad M**, Elford HL, Gallicchio VS, Oakley OR. Inhibition of allogeneic inflammatory responses by the Ribonucleotide Reductase Inhibitors, Didox and Trimidox. *J Inflamm (Lond)*. 2010 Aug 18;7:43.

Oakley OR, Kim H, El-Amouri I, Lin PC, Cho J, **Bani-Ahmad M**, Ko C. Periovarian leukocyte infiltration in the rat ovary. *Endocrinology*. 2010 Sep;151(9):4551-9.



## Conferences

- **34<sup>th</sup> International Congress of ISBT 2016, Dubai, United Arab Emirates (UAE)**  
**Mohammad A. Bani-Ahmad**, Ayman M. Abu-Awad, Ghaida Rahimi. Ischemia/Reperfusion Mediated Cardiac Damage as a Complication of Blood Transfusion among Beta-Thalassemia Patients.
- **37<sup>th</sup> Annual Autumn Immunology Conference 2008, Chicago, IL, USA.**
  - **Mohammad Bani Ahmad**, Chemyong Ko, Feng Lin, Ismail El-Amouri, Oliver R. Oakley. Murine cytomegalovirus reduces surface expression of decay accelerating factor on the surface of host cells as an immune-evasion strategy
  - Ismail El-Amouri, **Mohammad Bani Ahmad**, Chemyong Ko, Oliver R. Oakley. Bone marrow transplantation and murine cytomegalovirus: the way to look at it.
- **36<sup>th</sup> Annual Autumn Immunology Conference 2007, Chicago, IL, USA.**
  - **Mohammad Bani Ahmad**, Chemyong Ko, Feng Lin, Ismail El-Amouri, Oliver R. Oakley. The role of decay accelerating factor in the immunopathogenesis of murine cytomegalovirus.
  - Ismail El-Amouri, **Mohammad Bani Ahmad**, Chemyong Ko, Oliver R. Oakley. The role of decay accelerating factor (DAF) and murine cytomegalovirus (MCMV) in bone marrow transplantation.
- **35<sup>th</sup> Annual Autumn Immunology Conference 2006, Chicago, IL, USA.**
  - **Mohammad Bani Ahmad**, Chemyong Ko, Feng Lin, Ismail El-Amouri, Oliver R. Oakley. Decay accelerating factor and murine cytomegalovirus: scenario of latency.
  - Ismail El-Amouri, **Mohammad Bani Ahmad**, Chemyong Ko, Oliver R. Oakley. Murine cytomegalovirus induced interstitial pneumonitis following bone marrow transplantation: the way to understand it.



## Workshops

### Exams and Assessments

Aug 17<sup>th</sup> - 18<sup>th</sup>, 2020

Academic development center Jordan University of Science and Technology

### Basics of Distance Education

Jun 27<sup>th</sup> - 28<sup>th</sup>, 2020

Academic development center Jordan University of Science and Technology

### Peer reviewing workshop

Sep 5<sup>th</sup> - 29<sup>th</sup>, 2016

Society of Blood Transfusion (ISBT), International congress of the ISBT, Dubai, UAE

### Statistical Package for social sciences (SPSS)

Jul 06<sup>th</sup> - 07<sup>th</sup>, 2010

Academic development center Jordan University of Science and Technology

### Testing and Evaluation

Apr 21<sup>st</sup> - 22<sup>nd</sup>, 2010

Academic development center Jordan University of Science and Technology

### Statistical analysis in scientific research and examination

Oct 28<sup>th</sup> - 29<sup>th</sup>, 2009

Academic development center Jordan University of Science and Technology

### University Examination: Testing and Evaluation

Jul 29<sup>th</sup> - 30<sup>th</sup>, 2009

Academic development center Jordan University of Science and Technology



## Community Service

### ➤ Free Medical Days:

- **Mar 2<sup>nd</sup>, 2012:**

Free Medical Day for Syrian Refugees that was held in Al-Ramtha City – Irbid

- **Apr 9<sup>th</sup>, 2011:**

Free Medical Day at Martyr Azmi Al-Mofti Camp / Al-Huson - Irbid

### ➤ Blood Donation campaigns:

Several blood donation campaigns were organized and supervised, including:

- **Blood donation campaign (Slogan: A drop for Life)**

Apr 20<sup>th</sup>, 2019

in collaboration with National Blood Bank - Amman, Central Blood Bank - Irbid and King Abdullah University Hospital - Irbid. Campaign included booths for awareness to Hematological disorders (Anemia and Thalassemia), Breast cancer and seasonal diseases  
Location: King Abdullah Gardens / Irbid

- **Blood Donation campaign (Slogan: You are a Hero)**

May 4<sup>th</sup>, 2016

JUST campus in collaboration with National Blood Bank - Amman, Central Blood Bank - Irbid and King Abdullah University Hospital - Irbid.



## Reviewing

Abstract reviewer for the:

- 29<sup>th</sup> Regional Congress of the ISBT  
Basel, Switzerland (June 22<sup>nd</sup> – 26<sup>th</sup>, 2019).
- 35<sup>th</sup> Congress of the ISBT  
Toronto, Canada (June 2<sup>nd</sup> – 6<sup>th</sup>, 2018).
- 28<sup>th</sup> Regional Congress of the ISBT  
Guangzhou, China (November 25<sup>th</sup> – 28<sup>th</sup>, 2017)
- 27<sup>th</sup> Regional Congress of the ISBT  
Copenhagen, Denmark (November 17<sup>th</sup> – 21<sup>st</sup>, 2017)

Manuscripts Reviewer of manuscripts that were submitted for publication in

- The Jordanian Journal of Biological Sciences, Hashemite University (JJB:  
ISSN 2307-7166)



## Taught Course

### Undergraduate courses

- Introduction to Hematology (LM250)
- Introduction to Hematology – Practical (LM252)
- Diagnostic Hematopathology I (LM353)
- Diagnostic Hematopathology I – Practical (LM355)
- Diagnostic Hematopathology II (LM356)
- Immunohematology and Blood Banking (LM451)
- Immunohematology and Blood Banking – Practical (LM453)
- Clinical Microscopy (LM401)
- Clinical Microscopy – Practical (LM403)
- Hematology (LM351)
- Hematology – Practical (LM351)
- Veterinary Clinical Hematology (VT355)
- Veterinary Clinical Hematology – Practical (VT357)
- Field Training (LM460)

### Graduate Courses:

- Advance Hematology (LM751)
- Advance Diagnostic Hematopathology I (LM753)
- Advanced Diagnostic Hematopathology II (LM754)
- Advance Diagnostic Immunohematology and Blood Banking (LM755)
- Advanced Clinical Laboratory Management (LM792)
- Advanced Laboratory Hematology - Practical Training (LM758)
- Advanced Laboratory Immunohematology – Practical Training (LM759)



## Supervised M.Sc. Students

- **Yasmeen A. Ghanim (Current):** Impairment of oxidative balance on erythrocytes in response to overdose and chronic heroin administration
- **Rahaf F. Aldeqah (Current):** The oxidative impact of chronic heroin addiction on erythrocytic ghost constituents
- **Diala Q. Alshabi (Current):** Assessment of Hemolytic Evidence Among overdosed Intravenous Heroin Addicts
- **Farah M. Hussien (Jun 2021):** The Impact of Iron Deficiency on the levels of Cognitive Ability Markers in school aged children.
- **Kais Hussien Saleem Hawari (Jul 2019):** The involvement of T-helper 9 and T-helper17 in the immunopathogenesis of autism disorder
- **Islam Emad Ahmad Alkhazali (Jan 2019):** The oxidative damage on structural and functional components of erythrocytes among chronic Heroin addicts
- **Eshrak Hadi Eisa Gamal (Nov, 2017):** Evaluating the Synergistic Effect of Addition of Rosiglitazone to Bortezomib in Multiple Myeloma (Coadvisor)
- **Alex I. A. Ballout (Aug, 2017):** Heme Oxygenase-1 gene promoter length polymorphism and nitric oxide synthase isoforms in patients with sickle cell anemia
- **Montaser B. H. Haddad (Aug, 2016):** Effect of Feno-fibrate on levels of key mediators of tumor cell metastasis
- **Du'a Hani Hasan Al\_Omarat (Apr, 2016):** Assessment of the effects of iron deficiency anemia on gonadal functions
- **Noor Ebraheem Saad Eldin Abu Tayeem (Jan, 2016):** The Influence of Iron Deficiency Anemia on The Endocrine and Exocrine Pancreatic Functions.
- **Ghaidaa Abdulla Husain Rahimi (Aug, 2016):** The correlation between serum troponin levels and hemoglobin F (HbF) in Beta thalassemia patients
- **Ahmad Abdul Hamid Al Abdallah Al-Qudah (Aug, 2014):** Assessment of the Relationship Between Growth Factor derivatives and Deep Vein Thrombosis in Patients
- **Ahmed M. M. Abdalrahim (Sep, 2013):** 'Evaluation of hemostatic functions and oxidative damage of platelets among heroin addicts'
- **Ahmad Qaseem Mohammad Jaradat (Aug, 2013):** Protection of blood proteins and lipids against peroxynitrite-mediated oxidative damage using the antioxidant Tempol.
- **Ahmed Kherallah Rushdi Obeidat (Apr, 2013):** Diagnostic significance of FMS-Like Tyrosine Kinase 3 and Nucleophosmin 1 gene mutations in acute myeloid Leukemia
- **Dua'a Abdeljabbar Shukri Ghanem (Apr, 2013):** The effect of FLT3 gene mutations on angiogenesis in acute myeloid leukemia
- **Mouna Abdellatif Hussein Alzaeim (Jul, 2012):** molecular prevalence and viral load of human cytomegalovirus among healthy jordanian population
- **Mohammed Ibrahim A. Alasseiri (Jul, 2012):** The modulatory effect of WT1 mutation on apoptosis of acute myeloid leukemia cells