

## **PART I:**

### **Personal Information:**

Name: **Khaled Alhoms, D.Ph., Ph.D., M.S.**

Date of Birth: December 07, 1974

Nationality: Syrian and USA citizen

Marital Status: Married to Ghalia Alkatan (Syrian and USA citizen)

Children: Three: 1 Male: Yazen, 2 Females: Zenah and Ayah (Syrian and USA citizen)

### **Contact Information:**

Office address: U.S.A: Quality HealthCare  
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Abo Romanah, Damascus

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Syria: 6 Saleem Aljazaeri Street  
Abo Romanah, Next to American Embassy  
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## **Education:**

- Harvard Medical School and Massachusetts General Hospital, Division of Laboratory Medicine, Department of Clinical Pathology, Boston, USA  
Post-Doctoral Fellowship Training in Clinical Laboratories, 2006-2010
- Northeastern University and Massachusetts General Hospital, Harvard Medical School, Department of Biomedical Sciences, Boston, USA  
Doctor of Philosophy (Ph.D.), 2002-2005
- Northeastern University, Bouvé College of Health Sciences, Department of Medical Laboratory Sciences, Boston, USA  
Master of Science (M.S.), 2000-2002
- Northeastern University and Boston Medical Center, Department of Medical Laboratory Sciences, Clinical Hematology Laboratory, Boston, USA  
Post-Graduate Certificate in Clinical Hematology, 1998-2002
- Damascus University, School of Pharmacy, Damascus, Syria  
Doctor in Pharmacy and Pharmaceutical Chemistry Degree (Laboratory Diagnosis Specialty), 1993-1998

## **Professional Training and Experience:**

2021 – now	Vice President Scientific Research Council Al-Sham Private University (ASPU), Syria
2019 - 2020	Vice Dean for Scientific Research Affairs Faculty of Pharmacy, Al-Sham Private University (ASPU), Syria
2010-now	Medical Laboratory Director and Owner Alhomsisi Clinical Laboratories, Abo Rumanah Main St., Damascus, Syria
2007- 2009	Research Fellow for Laboratory Assays Validation (Hemostasis and Thrombosis), Instrumentation Laboratory, Lexington, USA

- 2007- 2009      Clinical Fellowship (Clinical Chemistry, Immunochemistry).  
Evaluate new assays in detecting tumors and cancers  
Massachusetts General Hospital and Harvard Medical School,  
Boston, USA
- 2007- 2008      Clinical Fellowship (Clinical and Special Coagulation Laboratory)  
Massachusetts General Hospital and Harvard Medical School,  
Boston, USA
- 2006-2007      Postdoctoral Fellowship Training, Division of Laboratory Medicine,  
Department of Clinical Pathology, Massachusetts General Hospital  
and Harvard Medical School, Boston, USA
- 2002-2005      Ph. D. Clinical Research, Division of Laboratory Medicine,  
Department of Pathology (Ph.D. level), Massachusetts General  
Hospital and Harvard Medical School, Boston, USA
- 2002              Clinical Internship, Division of Laboratory Medicine, Department of  
Pathology, Clinical Hematology Laboratory, Boston Medical Center  
and Boston University, Boston, USA
- 1998-2002      Post-Baccalaureate Certificate in Clinical Hematology, Department of  
Medical Laboratory Sciences, Northeastern University, Boston, USA
- 1996-1997      Clinical Internship, Department of Laboratory Medicine, Tawleed  
University Hospital, Damascus, Syria

### **Licensure and Certification:**

- 2019            Faculty Member, Ministry of education, Damascus, Syria
- 2018            International Computer Driving License, ICDL
- 2016            Syrian Board, Laboratory Medicine, Syrian Commission for Medical  
Specialties
- 2006            Laboratory Diagnosis Specialist, Syrian Clinical Laboratory Association  
(SCLA), Syria
- 2006            License in Laboratory Diagnosis, Ministry of Health, Syria
- 2003            Hematology Specialist, Syrian Clinical Laboratory Association (SCLA),  
Syria

- 2004 License in Hematology, Ministry of Health, Syria
- 2002 Board Registered (ASCP) in Hematology, USA

**Professional Societies:**

- 2008 Academy of Clinical Laboratory Physicians and Scientists (ACLPS), associate member
- 2007 The Endocrine Society (TES), associate member
- 2006 American Diabetes Association (ADA), professional member
- 2006 Society of Critical Care Medicine (SCCM), professional member
- 2006 The International Society on Thrombosis and Hemostasis (ISTH), associate member
- 2006 Society for Experimental Biology and Medicine (SEBM), associate member
- 2006 American Physiological Society (APS), regular member
- 2005 American Association of Bioanalysts (AAB), associate member
- 2005 American Society of Parasitologists (ASP), associate member
- 2005 American Association of Clinical Endocrinologists (AACE), professional member
- 2005 American Association of Reproductive Immunology (AARI), professional member
- 2004 American Association of Clinical Chemistry (AACC), associate member
- 2004 American Society of Clinical Laboratory Science (ASCLS), professional member
- 2004 American Society of Microbiology (AMS), active member
- 2004 Clinical Laboratory Management Association (CLMA), associate member
- 2003 American Association of Pharmaceutical Scientists (AAPS), associate member
- 2003 Syrian Clinical Laboratory Association (SCLA), associate member
- 2002 American Society of Clinical Pathology (ASCP), associate member
- 2001 Syrian Association of Pharmacy (SAP), associate member
- 1998 American Association of Pharmacy (AAP), associate member

## **PART II:**

### **Research, Teaching, and Clinical Contributions:**

#### **Research:**

- 2019- now : Al-Sham Private University, Lattakia, Syria  
Do multiple scientific investigations in different medical areas
- 2017-2018: Almujtahed Hospital, Damascus, Syria  
Study incoming cases to the emergency rooms and clinical laboratories during the Syrian crisis
- 2012-2016: Shriners Hospital for Burns, Boston, USA  
Develop new techniques in Medical Microbiology system
- 2005-2008: Harvard Medical School and Massachusetts General Hospital, Division of Laboratory Medicine, Department of Pathology, Boston, USA  
Develop and validate new assays in the clinical laboratory system
- 2002-2005: Harvard Medical School and Massachusetts General Hospital, Division of Laboratory Medicine, Department of Pathology, Boston, USA  
Investigate the impaired immunity in alcoholics. It was based on studying the nonoxidative metabolites of ethanol, Fatty Acid Ethyl Esters (FAEE) in human mononuclear cells, and their role as mediators of ethanol-induced immunosuppression

#### **Brief Description of Clinical Research Experience:**

- Cell Culture
- Cell Isolation and Preparation for Study
- Thin Layer Chromatography (TLC) for Lipid Isolation and Quantitation
- GC-MS (Gas Chromatography- Mass-Spectrometry)
- Radiolabeling and Measuring Radioactivity by Liquid Scintillation Counter
- ELISA Studies (cAMP, Cytokines, ...)
- Hemacytometer for Cell Counting.
- Spectrofluorimeter (Calcium measurement)
- Spectrophotometer
- Automated Blood Count (CBC) and Cell Differentials
- Complete Coagulation Testing
- Clinical Chemistry, Immunodiagnostic panel testing

- Urine and Stool Testings
- Calibration
- QC (Quality Control)
- PCR (RT)

### **Research Certification:**

- Certificate of Completion of the Partners Health Care System human-subject protection education requirements (Partners health Care, Boston, USA)
- Radiation Safety: using radioactive materials  $^{14}\text{C}$  and  $^3\text{H}$  (Massachusetts General Hospital, Boston, USA)
- Biological Safety: dealing with human blood and substances (Massachusetts General Hospital, Boston, USA)

### **Teaching:**

- Al-Sham Private University, Faculty of Pharmacy  
Department of Biochemistry, Lattakia and  
Damascus, Syria  
2019- now

- Northeastern University, Bouvé College of Health Sciences  
Department of Medical Laboratory Sciences, Boston, USA  
2005- 2009  
Lecturer and laboratory supervisor

- Massachusetts General Hospital and Harvard Medical School, Division of  
Laboratory Medicine, Department of Pathology, Boston, USA  
2005-2009  
Lecturer

### **Clinical Contributions:**

2005-2009    Massachusetts General Hospital and Harvard Medical School,  
Division of Laboratory Medicine, Department of Pathology.  
Evaluate new versus current quantitative assays.  
Develop screening and automated quantitative assays.

## **Seminars, Professional Meetings, Continuing Education and Conferences:**

- Damascus University and Faculty of Medicine, Research Articles Methodology  
March 26-28, 2023 Damascus University, Damascus, Syria
- Al-Moasat university Hospital, Latest Development in Laboratory Medicine  
Diagnosis June 19-22, 2022 Dama Rose Hotel, Damascus, Syria
- Damascus University and Faculty of Medicine, Latest Development in Medicine  
June 26-28, 2019 Dama Rose Hotel, Damascus, Syria
- Syrian Clinical Laboratory Association, Damascus Laboratory workshop and  
scientific conference  
January 24 -26, 2017 Damascus Sheraton Hotel, Syria
- American Society for Clinical Pathology (ASCP), workshops for laboratory  
professionals  
Update in flow cytometry and enhancing diagnostic skills in morphologic  
hematology  
October 30- November 01 2015, Springfield Marriott hotel, Springfield,  
Massachusetts, USA
- American Diabetes Association (ADA), 5<sup>th</sup> annual healthcare professionals  
luncheon  
New Treatments for Diabetes: The Role of Incretin-Based Therapies  
March 17<sup>th</sup> 2013, Seaport World Trade Center, Boston, USA
- American Association of Clinical Endocrinologists (AACE) meeting  
Thyroid and parathyroid glands  
November 17-18, 2011, O'keefe Auditorium Massachusetts General Hospital,  
Boston, USA
- Northeastern University, Bouvé College of Pharmacy and Health Sciences  
Department of Medical Laboratory Sciences  
CellaVision seminar, digital microscopy: the new advanced technology in clinical  
hematology  
October 24, 2010, Curry Student Center, Boston, USA
- The American Diabetes Association consensus conference  
IFG (Impaired Fasting Glucose) and IGT (Impaired Glucose Tolerance):  
implications for diabetes care  
October 16, 2009, Hilton O'Hare International Airport, Chicago, USA
- The American Society for Microbiology (ASM) 106<sup>th</sup> general meeting  
Addressing management issues  
New technologies by Roche Diagnostics, Remel, Olympus, Biorad Laboratories,  
Hary Diagnostics and Vista Technology Inc.  
May 21-23, 2009, Orange County Convention Center, Florida, USA

- American Association of Clinical Endocrinologists (AACE) 15<sup>th</sup> annual meeting and clinical congress (Novartis)  
Incretins: the missing piece in the type 2 diabetes puzzle  
Implications of recent clinical trials: a new perspective on insulin sensitizers  
April 28, 2008, Hyatt Regency, Chicago, USA
- Lipid Journal Club, Massachusetts General Hospital, Division of Laboratory Medicine, Department of Pathology  
September 2002- January 2006 (weekly), Laboratory Medicine Conference Room, Boston, USA
- Pharmaceutical Science Colloquium, Bouvé College of Pharmacy and Health Sciences, Department of Pharmaceutical Sciences  
October 2002- April 2005 (weekly), Snell Library, Boston, USA

### **PART III:**

#### **Format for Bibliography:**

#### **Original Articles:**

1. Fatty Acid Ethyl Ester Effects on Interleukin-2 Production, Cyclic AMP Synthesis, and Calcium Influx in Human Mononuclear Cells.2006
2. Fatty Acid Ethyl Esters in Human Mononuclear Cells: Production by Endogenous Synthesis Greatly Exceeds the Uptake of Preformed Ethyl Esters.2006
3. Evaluation of a New, Automated Quantitative Factor XIII Assay.2007
4. Induction of Apoptosis and Necrosis in Human Peripheral Blood Mononuclear Cells by Fatty Acid Ethyl Esters.2008
5. Maxillary Fractures in Patients Reviewing Almoujtahed Hospital During the Syrian Crisis.2018
6. Crisis Related Orbit Fractures Distribution and In-Hospital Management at Almoujtahed Hospital.2018
7. Review of mandibular fractures at almoujtahed hospital during the syrian crisis.2018
8. Antibiotic resistance in e.coli strains in samples from almoujtahd hospital.2018
9. Vitamin D3 and Calcium Relation: A Major Dilemma in Recent Times.2019
10. Increased Ratio of Hysterectomies: A Study of The Causes and Prevalence.2019
11. Study of Pus Cultures with Positive Staphylococcus Aureus Culture Results.2019
12. The Effects of Various Treatments on Enterobacter Strains.2019
13. E. coli Resistance to First-Line Treatments: A Burden to Health Care Systems.2019
14. Klebsiella Pneumonia Strains in Sputum Samples and The Efficiency of Different Antibiotics Against Them: A Laboratory Assessment.2019
15. The Disparities Between C-Reactive Protein and Erythrocyte Sedimentation Rate as Markers of Inflammation.2019
16. Study of Erythrocyte Sedimentation Rate and White Blood Cell Count Values in A Clinical Laboratory.2019



17. The Coexistence of Hemoglobin and Serum Iron Levels: Are They Always Synchronized.2019
18. Study of Squamous Cell Carcinomas of The Larynx and The Regional Lymph Nodes Involvement.2019
19. Study of Facial Malignant Skin Tumors in A Randomized Group.2020
20. Evaluation of Nasal Polyposis and its Correlation with Allergic Diseases.2020
21. Analysis of Neck Masses in A Group of Syrian Patients at Almouwasat University Hospital.2020
22. Foreign Body Aspiration: Study of Epidemiological Factors, Site and Type of Foreign Bodies in Children.2020
23. Salivary Gland Tumors: Demographics and Occurrence According to Age and Gender.2020
24. The Increasing Ratio of Cesarean Section Deliveries: Causes and Implications.2020
25. Surgical Thyroid Gland Diseases: Epidemiology and Neck Radiation Effect.2020
26. B-Thalassemia in Patients Reviewing Al-Mouwasat University Hospital in Damascus, Syria.2020
27. Prevalence of Abnormal Pap Smear Results in Syrian Women.2020
28. Study of Acute Bacterial Meningitis: Demographics, Symptoms and Signs.2020
29. Cholesteatoma Effects on Hearing and Ossicles at Al-Mouwasat University Hospital.2020
30. Abdominal Hernias in Adults at a group of Syrian Population.2020
31. Breast Cancer Screening Campaign of 2018 and 2019 at Al-Mouwasat University Hospital in Damascus, Syria.2021
32. Study of Cataract Types and Their Effect on Visual Acuity in a Group of Syrian Population.2021
33. The Use of Platelet Rich Plasma in Bone Regeneration: A Systematic Review.2021
34. Eyeing UP the Pandemic: A Literature Review of The Ocular Manifestations of Covid-19.2022
35. Gauging the learning environment at Damascus University Pharmacy School in Syria using the DREEM questionnaire: A cross-sectional study.2022
36. Evaluation of the Undergraduate Learning Environment at Dental Schools in Syria.2022
37. Revealing the Significant Shortcomings in the Learning Environment at the Three Largest Medical Schools in Syria: What's Next?.2023
38. The Challenging Reality of The Clinical Learning Environment at Damascus University Faculty of Dental Medicine in Syria: a Qualitative Study.2023

### **Thesis (M.S. level):**

Alhomsi K. Acute Lymphocytic Leukemia in 9 years old girl.  
Northeastern University; Boston, USA, 2002

### **Conference Proceedings:**

Alhoms K, Laposata M. Effects of Fatty Acid Ethyl Esters on Human Mononuclear Cell Morphology, Activation and Viability  
Pharmaceutical science showcase, Northeastern University, Boston, USA, 2005

### **Dissertation (Ph.D. level):**

Alhoms K. Effects of Fatty Acid Ethyl Esters on Human Mononuclear Cell Morphology, Activation and Viability  
Northeastern University; Boston, USA, 2005