

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

CURRICULUM VITAE

Personal Data:

Name : Salem Rifat Yasin Al-Maloul
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Educational Background

1. Bachelor (B.SC), Medical Technology Laboratories, 1984, Kuwait University, Faculty of Allied Health Sciences, Kuwait.
2. Ph.D., Molecular Biology and Medical Virology, 1992, Essex University, Biology Department, UK.

Ph.D. Dissertation Title:

“Phenotype Characteristics and Pathology for Man of Chalcone Ro 09-0410 Resistant Human Rhinovirus Type 2”.

Honors & Awards

1. Overseas Student’s Awards, 1989, Essex University, Cholchester, UK.

Professional Background

I. Academic Track:

1. Associate Professor of Molecular Biology, Department of Biological sciences, Faculty of Sciences and Arts, The Hashemite University, Al-Zarqa, Jordan (2006-Present).
2. Assistant Professor of Molecular Biology, Department of Biological sciences, Faculty of Sciences and Arts, The Hashemite University, Al-Zarqa, Jordan (2000-2006).
3. Assistant Professor of Molecular Biology and Medical Virology, Department of Medical Technology, Faculty of Allied Health Sciences, Al-Zaytoonah University, Amman, Jordan (1995-1997).
4. Scientific Research Assistant, Department of Microbiology (Virology Division), Faculty of Medicine, Kuwait University, Kuwait (1984-1986).

I.1. Teaching Experience

-Undergraduate Courses

General Biology I & II
General Biology Laboratory I & II
Medical Virology
Cell Biology
Molecular Biology
Recombinant DNA Technology
Molecular Genetics
Forensic DNA Analysis
Special Topics

- Graduate Courses

Advanced Molecular Biology

I.2 Academic Laboratory Training Experience

- Department of Medical Technology, Faculty of Allied Health Sciences, Al-Zaytoonah University: Laboratory training and follow up of medical technology students at various Jordanian hospitals. The laboratory training course focused on learning the different laboratory techniques of different laboratory sections and gaining experience in the basic laboratory skills.

II. Administrative Track:

1. Assistant Dean, Dean of Students' Affairs, Hashemite University (6/4/2003-7/10/2004).
2. Chairperson, Biological Sciences & Biotechnology Department, Faculty of Sciences, Hashemite University (3/10/2005-7/9/2008).
3. Assistant Dean, Dean of Students' Affairs, Hashemite University (24/10/2010-25/1/2011).
4. Vice Dean, Dean of Students' Affairs, Hashemite University (25/1/2011-Present).

III. Civil & Industrial Track:

1. Forensic Scientist, Public Security Directorate, Department of Forensic Laboratories, Amman, Jordan (1997-2000). The job's tasks included:
 - 1.1 Analysis of biological evidence attached to criminal cases.
 - 1.2 Quality control procedures related to forensic laboratories.
 - 1.3 Personnel training in forensic analysis of biological evidence using manual and automated techniques.
2. Head of the Research & Development/Quality Control Division, Diamond-Jordan Diagnostics Company (Manufacturer and Supplier of Medical Diagnostic Kits and Reagents), Al-Zarqa, Jordan (1996-1997).
3. Director, Modern Medical Laboratories, Amman, Jordan (1992-1994).

IV. Research Interests & Areas of Experties:

1. Evaluation of polymorphic genetic loci in the Jordanian population for forensic, clinical and ethnogenetic application. Work in this area involves the use of PCR-based techniques as well as genetic and statistical analysis to establish the allelic frequencies

of polymorphic genetic markers with ultimate goal of establishing an expandable population genetic database for the Jordanian population.

2. Application of molecular biology techniques in various fields of medical diagnosis. Work in this area involves the use of PCR-based techniques in the diagnosis of various viral, bacterial and mycotic infections, as well as male infertility for proper management and treatment.

V. Professional Training Courses

1. One-year training course (1994) at the Islamic Hospital Medical Laboratories, Amman, Jordan.
2. Short Tandem Repeat DNA Profiling (Applied Biosystems, 1998). Public Security Directorate / Forensic Science Laboratories, Amman, Jordan.
3. Forensic Genotyping Training Course (Applied Biosystems, 1998). Public Security Directorate / Forensic Science Laboratories, Amman, Jordan.
4. Genetic Analyzer Basic Training (Applied Biosystems, 1998). Public Security Directorate / Forensic Science Laboratories, Amman, Jordan.
5. Polymerase Chain Reaction (PCR) Training Course (2000). Applied Biosystems, Italy.
6. A training workshop for Better Teaching at the University level held at the Hashemite University campus (2000).
7. A training workshop at the Hashemite University on Building Internet-Based Multimedia Applications for Training and Education (2002).
8. A training course on CEQ 8000 Product Applications, Beckman Coulter, UK (2003).

VI. Invited Seminars

1. PCR technology and drug resistance of microbial agents (1994). Amman Private University and Al-Zytoonah University, Amman Jordan.
2. Role of biotechnology in the production of vaccines (1996). AUPAM symposium, Amman, 1996.
3. The importance of DNA evidence isolated from crime scenes (1998). Public Security Directorate, Amman, Jordan.
4. DNA Fingerprinting (1999). Al-Zarqa University and The Hashemite University, Al-Zarqa, Jordan.
5. The Human Genome Project: The Genetic Material (2001). The Hashemite University.

VII. Supervision of Postgraduate Students

1. Chief Supervisor to Khawalah M. M. Salem, M.Sc. Student, Department of Biological Sciences, Hashemite University. Title of Thesis: Allelic Frequency Distribution of the PCR-based CSF1PO, D16S539, TPOX, Penta D and Penta E STR Genetic Loci in Jordan. Co-supervisor, Dr. M. Hamad, Biological Sciences Department, Hashemite University. Graduated; May, 2003.
2. Co-supervisor to Sabah M. J. Khalil, M.Sc. Student, Department of Biological Sciences, Al-alBayt University. Title of Thesis: Gender determination and species specificity of various animal species using the human amelogenin system. Supervisor, Dr. A. Jaran, Department of Biology, Al-alBayt University. Graduated; May, 2003.
3. Chief supervisor to Dua'a M. Nazal, M.Sc. Student, Department of Biological Sciences, Hashemite University. Title of Thesis:

PCR-Based Molecular Differentiation of *Candida* species Clinical Isolates in Jordan. Co-supervisor, Dr. KH Abu-Elteen, Biological Sciences Department, Hashemite University. Graduated; December 2004.

4. Co-supervisor to Enas M. El-Younis, M.Sc. Student, Department of Biological Sciences, Hashemite University. Title of Thesis: Clonotypic Analysis of Vaginal T Lymphocytes During Experimental Estrogen-Dependent Vaginal Candidosis in the Murine System. Supervisor, Dr. M. Hamad, Biological Sciences Department, Hashemite University; Graduated August 2005.

5. Chief supervisor to Huda Ahmad Al-Isma'ael, M.Sc. Student, Department of Biological Sciences, Hashemite University. Title of Thesis: The bearing of haptoglobin polymorphism on the progression of polycystic kidney disease in genetically-predisposed individuals. Co-supervisor, Dr. S. Awadallah, Medical Laboratories Department, Faculty of Allied Health Sciences, Hashemite University. Graduated August 2006.

6. Chief supervisor to Nevein M. Iisa, M.Sc. Student, Department of Biological Sciences, Hashemite University. Title of Thesis: Y-chromosome microdeletions and male infertility in Down syndrome individuals. Graduated February 2008.

7. Chief supervisor to Maram H. Hasan, MSc Student, Department of Biological Sciences, Hashemite University. Title of Thesis: The role of ADF/cofilin signaling pathway during the metastasis of MTL n3 breast adenocarcinoma. Co-supervisor, Dr. Lubna Tahtamoni, Biological Sciences Department, Hashemite University.

VIII. Research Grants

1. Genetic Variation of Various Short Tandem Repeats (STR) in the Jordanian Population. Hashemite University Deanship for Graduate Studies & Scientific Research. Principal Investigator; Total fund awarded: 5400 JD; November 2001- November 2002.

2. Genetic Variation of Various Short Tandem Repeats (STR) Loci Among Jordanian Minority Population. Hashemite University Deanship for Graduate Studies & Scientific Research. Principal Investigator; Total fund awarded 5800 JD; January 2003- January 2005.

3. Genetic Variation of Various Y-Chromosome Short Tandem Repeat (STR) Loci in Jordanians. Hashemite University Deanship for Graduate Studies & Scientific Research. Principal Investigator; Total fund awarded: 10000 JD; (December 2003- November 2005).

4. The immunologic relevance of vaginal T lymphocytes in experimental vaginal candidosis in the murine system. Hashemite University Deanship for Graduate Studies & Scientific Research. Co-investigator; Total fund awarded: 6560 JD; May 2004-.

5. Rate of Infection and genotyping of Hepatitis G (HGV) virus in blood donors in Jordan and Kuwait. Research and Studies Center, University of Sharjah. Co-investigator; Total Fund awarded: 45,710 AED; June 2005.

6. The effect of supraphysiological dosing of anabolic-androgenic steroids on rat sperm chromatin abnormalities. Hashemite University Deanship for Graduate Studies & Scientific Research. Co-Investigator; Total fund awarded: 12,450 J.D; February 2007.

7. A Preliminary Survey of the Human Y-chromosome Genetic Loci Associated With Human Fertility. Hashemite University Deanship for Graduate Studies & Scientific Research. Principal Investigator; (Research for Sabbatical Leave; 2008-2009).

8. The Clinical Impact of the Human Y-chromosome's Sequence-Tagged-Sites on Human Fertility. Ministry of Higher Education & Scientific Research. Principal Investigator. Total fund awarded: 45600 JD; 2009.

9. ADF/cofilin signaling pathway involved in establishing polarized migration in metastatic breast tumor cells. Co-Investigator; Total fund awarded: 28680 JD; 2009.

10. The Potential Application of Y-Chromosome's Sequence-Tagged-Sites (STS's) Microdeletions in Forensic Investigations. Hashemite University Deanship for Graduate Studies & Scientific Research. Principal Investigator; Total fund awarded: 3000 JD; 2010.

IX. Community Services & Other Extracurricular Activities

1. Participation in the preparation of a laboratory manual for biology students at Al-Zaytoonah University, Amman/Jordan, 1996.
2. Testimonies at various justice courts in Jordan about DNA evidence in criminal investigations (1997-2002).
3. Memberships in various departmental, college and university committees (2000- present).
4. A Member of the National Committee against Drugs. Jordan (2001/2002).
5. Participation in a one-day workshop on "Application of real time PCR and DNA/RNA quantitation science and medicine", EnviroLife, Jordan (2005).
6. Participation in the Arab-Jordanian Conference on Down Syndrome: Down Syndrome Today and Tomorrow. Jordan University, Jordan, 2005.
7. Participation in the University and Community Service workshop, the National Conference for Higher Education, Petra University, Jordan, 2005.
8. Participation in a workshop on "Real Time PCR Applications" held in Amman, under the patronage of Al-Wafi Group for Marketing and Int. Co. Ltd. and Bio- Rad International, 2005.
9. Hashemite University Representative, the National Virtual Centre for Biotechnology (NVCB), Higher Council for Science and Technology, 2005.

X. Referring & Reviewing

1. Article Reviewing in Local & International Journals

- Croation Medical Journal (CMJ)
- Jordan Journal of Biological Sciences
- Al-Shareqa University Journal

2. Books Reviewing

- Chapters reviewing in Essential Genes by John & Bartelet

XI. Publications

1. Al-Mekki A.A., W. Al-Nakib, S.R. Yasin, O. Strannegard (1987). The Detection of Cytomegalovirus (CMV)-Specific IgM Using Peroxidase Labeled Antigen: Comparison with an Indirect Enzyme-Linked Immunoassay. *Serodiagnosis & immunochemotherapy* 1:267-273.

Ph.D. Thesis:

2. Al-Nakib W., S.R. Yasin, C.J. Dearden (1988). In vitro and In vivo Development of Drug Resistance by Rhinoviruses. *Antiviral Research* 9(1/2) Abstr. 128.
3. Yasin S.R., W. Al-Nakib, D.A.J. Tyrrell (1990). Isolation and Preliminary Characterization of Chalcone Ro 09-0410 Resistant Human Rhinovirus Type 2. *Antiviral Chemistry & Chemotherapy* 1(2):149-154.
4. Yasin S.R., W. Al-Nakib, D.A.J. Tyrrell (1990). Pathogenicity for Humans of Human Rhinovirus Type 2 Mutants Resistant to or

Dependent on Chalcone Ro 09-0410. *Antimicrobial Agents & Chemotherapy* 34(6):963-966.

5. Yasin S.R., M. Hamad, A. Elkarmi (1999). Jordanian Population Data on the PCR-based Loci: LDLR, GYPA, HBGG, D7S8, GC and HLADQA1. The 1st Conference of Medical & Biological Sciences. Zarqa Private University, Abst. 60.
6. Yasin S.R., M. Hamad, A. Elkarmi (1999). Jordanian Population Data on the PCR-based Loci: LDLR, GYPA, HBGG, D7S8 and GC. *Forensic Science International* 104:17-21.
7. M. Hamad, S.R. Yasin, A. Elkarmi (2001). Genetic polymorphism of the PCR-based locus HLA-DQA1 in Jordanian. *Korean Journal of Genetics* 23(1): 7-11.
8. M. Hamad, S.R. Yasin, A. Elkarmi (2001). Polymorphism of HUMvWA31, HUMTHO1, HUMF13A1 and HUMFES/FPS STR genetic loci in Jordanians. *Korean Journal of Genetics* 23(2): 157-161.
9. S.R. Yasin (2002). Allele frequencies at nine PCR-based STR loci in Jordanians. *Korean J. Genetics* 24(4): 327-334.
10. K. Salem, S.R. Yasin, A. Elkarmi, M. Hamad, A.S. Jaran (2003). Jordanian population data on five STR forensic loci: D16S539, TPOX, CSF1PO, Penta D, Penta E. *Legal Medicine* 5(4): 251-252.
11. D.S. Nazzal, S.R. Yasin, K.H. Abu-Elteen (2005). A Rapid PCR-Based Method for Identification of Four Clinically Important *Candida* species. *New Microbiologica* 28: 245-250.
12. S.R. Yasin, M.M. Hamad, A.Z. Elkarmi, A.S. Jaran (2005). African Jordanian Population-Genetic Database on Fifteen Short Tandem Repeat (STR) Genetic Loci. *Croatian Medical Journal* 46(4):587-592.
13. M. Hamad, S.R. Yasin (2005). Allelic representation and its effect on genetic variation: A Jordanian population study. *Journal of Biological Sciences* 5(6): 790-794.
14. A. S. Jaran, S.R. Yasin (2006). Species specificity of a human multiplex PCR-based system. *Journal of Biological Sciences* 6(1): 200-201.
15. Mawieh Hamad, Enas Muta'eb, Qasem Abu Shaqra, Abeer Fraij, Khaled Abu-Elteen, and Salem R. Yasin (2006). Utility of the estrogen-dependent vaginal candidosis murine model in evaluating the efficacy of various therapies against vaginal *C. albicans* infections. *Mycoses* 49: 104-108.
16. S.R. Yasin (2006). Allele Frequencies and Haplotypes of Eleven Hemizygous Short Tandem Repeats in a Jordanian Population Sample. *Legal Medicine* 8: 248-250.
17. Raed Khail, Salem Yasin, Mawieh Hamad, Ahmad Sharieh, Ahmad Al-Jaber (2008). Virtual Reference Values for STR Genetic Loci Assignment in Forensic Arenas: A Jordanian-Based Study. *Jordan Journal of Biological Sciences* 1(2): 73-76).
18. L.H. Tahtamoni, N.H. Mustafa, A.A. Alfaouri, I.M. Hassan, M.Y. Abdalla, S.R. Yasin (2008). Prevalence and Risk Factors for Anabolic-Androgenic Steroid Abuse among Jordanian Collegiate Students and Athletes. *European Journal of Public Health* 18(6): 661-665.
19. Mawieh Hamad, Enas El-Younis, Salem Yasin, Khaled Abu-Elteen (2009). TCRV β clonotypic analysis of vaginal candidiasis in the murine system. *Experimental and Clinical Science* 8: 203-210.
20. Lubna H. Tahtamouni, Noor H. Mustafa, Iman M. Hassan, Iman M. Ahmad, Salem R. Yasin, Maher Y. Abdalla (2010). Nadrolone Decanoate administration to male rats induces oxidative stress, seminiferous tubules abnormalities and sperm DNA fragmentation. *Jordan Journal of Biological Sciences* 3(4):1-7.
21. Raed Abu Odeh, Salem Yasin, Gheyath Nasrallah, Yaman Babi (2010). Rates of infection and phylogenetic analysis of GB

virus-C among Kuwaiti and Jordanian blood donors. *Intervirology* 53(6): 402-407.

22. Maher Y. Abdalla, M. Fawzi, Salem R. Al-Maloul, N. El-Banna, R. F. Tayyem, and I. M. Ahmad (2011). Increased oxidative stress and iron overload in Jordanian α -thalassemic children. *Hemoglobin* 35(1): 67-79.

23. Lubna H. Tahtamouni, Salem R. Yasin, Niveen M. Issa, Nisreen S. Najeeb, Maher Y. Abdallah (2010). The Genomic Integrity of the Y-Chromosome Sequence-Tagged-Sites in Infertile and Down Syndrome Jordanian Males. (In Preparation).

24. M. Hamad, S.R. Yasin, Raed Khalil. Percentage allelic representation (PAR) and the concept of impossible genotypes: theoretical considerations (In Preparation).

XII. References

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