

CURRICULUM VITAE

Personal Details:

Full name Said Ibrahim Ismail
Date/ place of birth 11/12/1970, Kuwait
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Education:

- Ph.D.** **University of Oxford, UK, (10/97-8/2000).**
- Department of Biochemistry.
- Gene Therapy Group / Supervisor: Prof. Alan Kingsman.
- Thesis title: "Development of novel MLV gene transfer systems by exploiting retroviral RNA processing".
- M.Sc.** **University College London, UK, (9/1995-9/1996).**
- Degree title: "Applied Molecular Biology and Biotechnology".
- Literature dissertation: "Hematopoietic Stem Cells and Gene Therapy".
- Practical project: "Cloning and characterisation of 4 thermolabile mutants of the large T oncogene of Polyoma virus".
- B.Sc.** **University of Jordan, Jordan (1/1991-1/1995).**
- Degree title: "Medical Laboratories Technology".
- Grades average: 84.9 (Distinction).
- Practical training: 12 months training at Jordan University Hospital laboratories
- General Secondary School Certificate (*Science Division*),**
- Al-Jaberiah Secondary School, Kuwait, 1989
- Total grades average: 96.4 %

Academic Awards & Scholarships:

- Ph.D.:** - Overseas Research Studentship (ORS) award, Oxford University (1997-2000)
- Karim Rida Said Foundation (KRSF) Scholarship, Oxford University (1997-2000)
- The 2001 first prize of the KRSF award for best academic achievement.
- M.Sc.:** - Karim Rida Said Foundation (KRSF) Scholarship, UCL, UK (1995-1996)
- School:** - Al-Jaberiah High School golden medal for distinguished students, Kuwait 1989

Work Positions:

- 2008-now: Associate Professor of Molecular Biology, Medical School, Uni. of Jordan
- 2002-2008: Assistant Professor of Molecular Biology, Medical School, Uni. of Jordan
- 2000-2002: Research Fellow, Ludwig Cancer Institute, University College London, UK
- 1994-1995: MedLabs Consultancy Group, Diagnostic Laboratories, Amman-Jordan

Other Responsibilities:

1. Head of the Molecular Biology Research Laboratory at the Faculty of Medicine / University of Jordan.
2. Head of the Molecular Diagnostics Lab, University of Jordan Hospital.
3. Director of research at the "Cell Therapy Centre", at the University of Jordan
4. Member of the Biotechnology research group at the Mango research centre / University of Jordan.
5. Scientific consultant for Aragen Biotechnology, Amman-Jordan.
6. Member of the editorial board for the Journal of Molecular and Genetic Medicine, Library Publishing Media, Oxford, England, UK
7. Vice President of the Jordanian Genes Society (2005).
8. Member of the Jordan Advisory Board of the International Consortium for the American Society for Clinical Pathology International (ASCPi).

Graduate Students Supervision:

1. Nadia Akkawi (2004): "Highly sensitive multiplex RT-PCR system for the detection of all common BCR-ABL transcripts".
2. Farid Khalaf (2005): "Development of a multiplex RT-PCR for the detection and subtyping of the major aberrations in acute myeloid leukaemia".
3. Tasneem Qa'adan (2005): "Detection of the chromosomal translocation t(14;18) in follicular lymphoma in Jordanian population by a novel PCR system"
4. Hind Al-Shaka'ah (2007): "The association between JAK2 mutations and Myeloproliferative disorders"
5. Rawan Batarseh (2007): "The frequency of the 32bp deletion mutation of the CCR5 gene and its association with hepatitis C virus infection"
6. Manar Zreikat (2008): Hybridoma-free production of monoclonal antibodies for diagnostic and therapeutic purposes
7. Ismael S Mahmoud (2008): "Activating mutations in the AKT1 gene in lymphoid leukemias".
8. Walhan Al-Sha'er (2008): "Development of Anti-Tyrosin kinase Aptamers for diagnostic and therapeutic purposes".
9. Reem Ali (2009): "Development of Anti-Tyrosin kinase Aptamers for diagnostic and therapeutic purposes".
10. Ala Abu Fara (2009): Development of Anti-Tyrosin kinase Aptamers for diagnostic and therapeutic purposes".
11. Yazan Jarrar 2009: "N-Acetyltransferase-2 (NAT2) genotype frequency among Jordanian volunteers".
12. Asma Elawi (2010): "TPMT gene polymorphisms in healthy Jordanian volunteers".

13. Abdel-Rahim Ghazal (2010). "Effect of viral respiratory infections by influenza A virus, parainfluenza virus and adenovirus on immune-inflammatory gene expression profiles of human leukocytes".
14. Nida Ababneh (2011). "Selection of RNA Aptamers against Cancer Stem Cell surface markers by SELEX".
15. Sana Salahat (2011). "Screening of Cystic fibrosis mutation in the Jordanian population".
16. Nasr Rabadi (2011): "Effect of Thymoquinone on Gene expression of EBV transformed LCLs"
17. Aisha Abu Rub (2012): "Effect of cytokines on proliferation and antibody production of EBV transformed B lymphocytes"
18. Sofia Adwan (2012): "Association of UGT1A gene polymorphism with colorectal cancer in Jordanian patients".
19. Bara'ah Qaqish (2012): "Association between use of pesticides and occurrence of t(14;18) in Jordanian farmers".

Research Grants:

1. Scientific research deanship, University of Jordan: "Monitoring of minimal Residual Disease (MRD) in patients with haematological malignancies by sensitive molecular biology techniques", 2003.
2. Hamdi Mango centre for scientific research: "Development of multiplex PCR systems for the simultaneous diagnosis of different haematological malignancies and monitoring of chimerism following bone marrow transplantation", 2003.
3. Hamdi Mango centre for scientific research: "Comparative, controlled, pilot study to determine the anti-tumour potency of novel dihydroazepine- fused indoloquinolines on various human tumour cell lines", 2003.
4. Hamdi Mango centre for scientific research: "Preparation of pharmacophore-selective DNA aptamers as potential platform for high throughput screening (HTS) drug discovery efforts via riboswitch that activates protein translation: An advanced biotechnological approach", 2005.
5. National Center for Biotechnology (NCB), The Higher Council for Science and Technology: "Hybridoma-free immortalization of β -lymphocytes", 2006.
6. Scientific research deanship, University of Jordan: "The genetic polymorphism of the soluble epoxide hydrolase gene sequences in Jordan and susceptibility to smoking related cancer", 2007.
7. Scientific research deanship, University of Jordan: Targeted-Delivery of Macromolecular Drugs (Aptamers) to Cancer Cells, 2009.
8. Scientific research fund, ministry of higher education and scientific research Targeted-Delivery of Macromolecular Drugs (Aptamers) to Cancer Cells, 2009.
9. Scientific research fund, ministry of higher education and scientific research: "Investigation of Best Stem Cell Source on a Scaffold to Create Full Thickness Human Skin in an Efficient, Fast, Reliable and Cost-Effective Method", 2009.
10. Scientific research deanship, University of Jordan: Development of Anti-Tyrosine Kinase Aptamers As Cancer Therapeutics, 2010.

11. Scientific research deanship, University of Jordan: Development of specific Aptamers against cell surface markers of Cancer Stem Cells (CSCs) and Circulating Tumor Cells (CTCs), 2012.

Publications:

1. **Said Ismail**, Sue Kingsman, Alan Kingsman, and Mark Uden. Split-intron retroviral vectors; Enhanced expression and improved safety. **Journal of Virology**, 2000. 74:2365-2371.
2. **Said Ismail**, Jonathan Rohll, Sue Kingsman, Alan Kingsman, and Mark Uden. Use of intron disrupted polyadenylation sites to enhance expression and safety of retroviral vectors. **Journal of Virology**, 2001. 75: 199-204.
3. K. Hardy, L. Mansfield, A. Mackay, S. Benvenuti, **S. Ismail**, M. J. O'Hare, and P. S. Jat. Transcriptional Networks and Cellular Senescence in Human Mammary Fibroblasts. **Molecular Biology of the Cell**, 2005. Vol. 16, Issue 2, 943-953.
4. Naif S. Karadsheh, Linda Moses, **Said I. Ismail**, Joseph M. Devaney, Eric Hoffman. Molecular Heterogeneity of glucose 6 phosphate dehydrogenase (G6PD) deficiency in Jordan. **Haematologica**, 2005. Dec; 90(12): 1693-4.
5. Nadia A. Akawi, **Said I. Ismail**, Abdallah Awidi Abbadi, Mosleh S. Al-Tarawneh, Mohammed S. Al-Khateeb. Highly sensitive multiplex RT-PCR system for the detection of all common BCR-ABL transcripts. **Jordan Medical Journal**, 2006, 41(2): 96-104.
6. **Said Ismail**, Nidaa Ababneh, and Abdalla Awidi. Identification of atypical PML-RARA breakpoint in a patient with acute promyelocytic leukemia. **Acta Haematologica**, 2007, 118:183-187.
7. **Said Ismail**, Wafa Qubbaj, Mona Kilani, Miza Hijazi, Amid Abdelnour, Mohammed S. Al-khateeb, Abdalla Awidi. Successful Bone Marrow Transplantation for Treatment of Chronic Myeloid Leukemia from a Donor with Mosaic Klinefelter Syndrome. **International Journal of Hematology**, 2007, 86(3): 287-288.
8. Ismail S Mahmoud, Maher A Sughayer, Haneen A Mohammad, Anan A Eshtayeh, Abdalla S Awidi, Mohammad S EL-Khateeb, **Said I Ismail**. The Transforming Mutation E17K/*AKT1* is not a Major Event in B-Cell Derived Lymphoid Leukaemias. **British Journal of Cancer**, 2008, 99: 488-490
9. **Said I. Ismail**, Nida A. Ababneh, Abdallah Awidi Abbadi Methylenetetrahydrofolate Reductase (MTHFR) genotype association with the risk of Chronic Myelogenous Leukemia. **Jordan Medical Journal**, 2008, 43(1):8-13.
10. Hind R. Shakah, Abdalla Awidi, Randa G. Naffa, & **Said I. Ismail**. Screening patients with polycythemia vera for c-Kit mutations. **Leukemia & Lymphoma**, 2009; 50(1): 127-129.
11. **Said I Ismail**, Ismail S Mahmoud, Mahmoud Al- Ardah, Amid Abdelnour, Nidal A Younes. Detection of combined genomic variants in a Jordanian family with familial non autoimmune hyperthyroidism. **Journal of Genetics**, 2009, 88(2): 233-238.
12. **Said I. Ismail**, Nida A. Ababneh, Yousef Khader, Ahmad A. Abu-Khader, Abdullah Awidi. Methylenetetrahydrofolate Reductase (MTHFR) Genotype Association With the Risk of Follicular Lymphoma. **Cancer Genetics and Cytogenetics**. 2009, 195(2); 120-124

13. **Said I. Ismail**, Maher A. Sughayer, Tasneem F. Al-Quadani, Bara'ah M. Qaqish, Musleh S. Tarawneh. Frequency of t(14;18) in follicular lymphoma patients: Geographical or technical variation. **International Journal of Laboratory Haematology**, 2009, 31; 535-543.
14. **Said I Ismail**, Ismail S Mahmoud, Mohammed M Msallam, Maher A Sughayer. Hotspot mutations of PIK3CA and AKT1 genes are absent in multiple myeloma. **Leukemia Research**, 2010, 34(6); 824-826.
15. Yazan Jarrar, Yaqoub Irshaid, **Said I Ismail**. N-Acetyltransferase-2 (NAT2) genotype frequency among Jordanian volunteers. **Int. Journal of Clinical Pharmacology and Therapeutics**. 2010, 48(10);688-694.
16. **Said I Ismail**, Ismail S Mahmoud, Mohammad AL Salman, Maher A Sughayer, Azmi Mahafzah. Frequent detection of Human Herpes Virus-8 (HHV-8) in bone marrow of Jordanian patients of multiple myeloma. **Cancer Epidemiology**. 2011, 35; 471-474.
17. Randa G. Naffa, Abdalla S. Awidi, Al-Motassem F. Yousef, **Said I. Ismail**. CYP1A1, glutathione S-transferase gene polymorphisms and risk of Polycythemia vera. **Cancer Epidemiology**, 2012, 36 (1); 68-72.
18. Nancy Hakooz, Sameh Alzubiedi, Al-Motassem Yousef, Tawfiq Arafat, Rana Dajani, Nidaa Ababneh, **Said I. Ismail**. UDP-Glucuronosyltransferase 1A4 (UGT1A4) Polymorphisms In A Jordanian Population. **Molecular Biology Reports**, 2012 Jul; 39(7): 7763-8
19. Marwa N. Abu-Aisheh, Mohammad S. Mustafa, Mustafa M. El-Abadelah, Randa G. Naffa, **Said I. Ismail**, Malek A. Zihlif, Mohammad S. Mubarak. Synthesis and antitumor activity assays of some new N1-(flavon-7-yl) amidrazone derivatives and related congeners. **European Journal of Medicinal Chemistry**, 2012, 54; 65-74.
20. Abdalla Awidi, Nizar Abuharfeil, Hanan Jafar, Dua'a AbuArqoub, **Said Ismail**, MH Kilani. The *in vitro* effect of autologous platelet lysate on different types of mesenchymal stem cells. **Regenerative Research**, 2012, 1(1); 25-32.
21. Malek A Zihlif, Ismail S Mahmoud, Majd T Ghanem, Manar S Zreikat, Nasr Alrabadi, Amer Imraish, Fadwa Odeh, Manal A Abbas, **Said I Ismail** Thymoquinone efficiently inhibits the survival of EBV infected B cells and alters EBV gene expression. **Integrative Cancer Therapies**, In Press.
22. Yousef AM, Bulatova NR, Newman W, Hakooz N, **Ismail S**, Qusa H, Zahran F, Anwar Ababneh N, Hasan F, Zaloom I, Khayat G, Al-Zmili R, Naffa R, Al-Diab O. Allele and genotype frequencies of the polymorphic cytochrome P450 genes (CYP1A1, CYP3A4, CYP3A5, CYP2C9 and CYP2C19) in the Jordanian population. **Mol Biol Rep**. Published on June 22nd 2012. [Epub ahead of print].
23. Fadwa Odeh, Said Ismail, Ismail Mahmoud, Rana Abu-Dahab, Abeer Al Bawab. Thymoquinone in liposomes: A study of loading efficiency and biological activity towards breast cancer. **Drug Delivery**. In Press.

Patents:

23. **Said I. Ismail**, Motasem Hawamdeh, Walhan Alshaer. Aptamers as JAK2 kinase inhibitors. Industrial Property Protection Directorate, The Hashemite

Kingdome of Jordan, Patent No. 2535, 9/12/2010.

Selected Conferences:

1. "Next-Gen Kinase Inhibitors: Looking at the Path Ahead". Boston, USA, June 4 – 6, 2012. (Invited Speaker).
2. "International Conference of Young Chemists ICYC". 8-10 April, 2012, Amman-Jordan. (Poster)
3. WHO workshop on "Problem Based Learning: from design to practice", 26th-27th April 2011, Amman-Jordan.
4. "The Sixth Palestinian Conference for Laboratory Medicine", 12-13 March, 2010, Jerusalem – Palestine. (Invited Speaker)
5. "Advances in Cancer Research: From Laboratory to the Clinic". Organized by the American Association for Cancer Research (AACR), 7-10 March 2010, Dead Sea – Jordan. (Invited Speaker)
6. The first national meeting on bioethics, 23-24 November, 2009, Amman-Jordan (Speaker)
7. The 4th meeting for scientific research in Jordan, Landmark Hotel, November 2009, Amman-Jordan. (Invited Speaker)
8. "The 6th European Conference on Molecular Diagnostics", The Hague, Holland, October (21-22) 2009. (Poster)
9. "The 3rd Jordanian Society of Pathology international conference, 5-8 November 2008, Amman-Jordan. (Invited Speaker).
10. International Society for cellular therapy: Europe first regional meeting, 14-16 September 2008, Antwerp, Belgium.
12. Advances in Cancer Research: From Laboratory to the Clinic. Organized by the American Association for Cancer Research (AACR), 16-19 March 2008, Dead Sea – Jordan.
12. Research, Development, and Innovation: Biotechnology in the Arab World Organized by Arab Science and Technology Foundation (ASTF), 3-5 March 2008, Kempinski Hotel, Amman-Jordan. (Invited Speaker).
13. King Hussein Cancer & Biotechnology Institute, National Cancer Institute – USA, and Duke University: Middle East & North Africa cancer research conference, 3-4 September 2007, Grand Hyatt Hotel – Amman, Jordan
14. "RNAi2007: The Expanding Roles of Small RNAs", 29-30 March 2007, St Anne's College, Oxford, UK
15. "Dead Sea Conclave on HIV and cancer vaccines", international meeting, Dead Sea, Jordan. November 16-19, 2005.
16. "Medical Device Directives for CE marking", short course, Aragen Biotechnology, Amman, Jordan, September 11-12, 2005.
17. "Microarray Bioinformatics", short course, University of Oxford, Oxford, UK, July 4-8, 2005.
18. "Real Time PCR", workshop, Envirolife & Corbett Research, Amman, Jordan, December 2-3, 2004
19. "Applications of Molecular Biology in Modern Medicine", international conference, University of Kuwait, Kuwait, March 7-11, 2004.
20. "The Third European Conference on Molecular Diagnostics", The Hague, Holland, October (16-17) 2003.
21. "Biotechnology and its role in Jordanian economy", national meeting, Irbid-Amman, Jordan, October (6-8) 2003.
22. The Amersham Pharmacia Biotech "European proteomics / 2D-DIGE meeting",

London, UK, June 19th 2001.

23. "Retroviruses Meeting", Cold Spring Harbor, New York, USA. May (25-30) 1999. Presentation: Split-intron retroviral vectors; Enhanced expression and improved safety. (Poster)

Workshops: (our lab. regularly organizes practical workshops on different techniques):

1. "PCR technology, Principles and Diagnostic Applications", 2 weeks hands-on training course held once-twice a year since 2004.
2. "Real-Time PCR , Principles and Applications", 2 weeks hands-on training course held annually since 2007.
3. "Basics of Mammalian cell culture", 2 weeks hands-on training course held annually since 2008.

Languages:

- **Arabic:** Native
- **English:** Fluent
- **German:** Beginner