# CURRICULUM VITAE

JAWAHER ALSUGHAYYIR

EXPERIENCE

2013 King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia.

* Trained (6 months) at the stem cells and tissue re-engineering program.
* Responsible of collecting and processing fresh breast cancer tumor samples from female in-patients.
* Sort tumor samples for stem cells by FACS.
* Perform T cell proliferation assays.
* T cells proliferation measurement by flow cytometry.
* Perform immunohistochemistry and immunofluorescence staining.

2012 – Current King Saud University, Riyadh, Saudi Arabia.

* Lecturer at KSU in the field of immunology.
* Demonstrator of medical microbiology and immunology laboratories.
* Former head of the KSU internship committee.
* Current vice-head of the KSU internship committee.
* Former member of the purchases committee at the microbiology and immunology department.
* Member of the higher education committee at clinical laboratories department.

2009 – 2012 National Research Council of Canada, Ottawa, ON.

***M.Sc Student***

* Isolated anti-CD49d single-domain antibodies from a synthetic VL phage display library by whole cell panning using Jurkat cells.
* Analyzed the biophysical properties of isolated VLs for isoelectiric point, apparent molecular weight, formula molecular weight, aggregation status, concentration and total protein yield.
* Expressed and gel-purified novel homodimeric antibody fragments (hFc-VLs). Each monomer comprised of CD49d-binding VL,hinge, CH2, and CH3 domains using mammalian cell expression system.
* Gel purified hFc-VLs successfully recognized the native structure of CD49d expressed on transfected K562 cells as confirmed by flow cytometry.

2006 – 2007 King Khaled University Hospital, Riyadh, KSA.

* Full-time internship in the diagnostic clinical laboratories of King Khaled University Hospital. Completion with Excellence.
* Trained on different medical laboratory technologies (rotating for one year), including histophathology, medical microbiology, heamatology, and clinical biochemistry.
* Trained on collecting, processing, and handling venous and capillary blood samples using aseptic techniques.
* Trained on performing detailed assignments with minimal supervision and work under pressure.

EDUCATION

2009 – 2012 University of Ottawa, Ottawa, ON.

* M.Sc. in Microbiology and Immunology.
* Finished the following courses: Host/Pathogen Interactions and Molecular Immunology (A), Immunochemistry (A), and Molecular biology (B+).
* Independent research for 2 years followed by an oral defence in the area of autoimmunity and antibody engineering.
* Thesis title: “CD49d-Specific Single Domain Antibodies for the Treatment of Multiple Sclerosis”.
* Supervisor: Dr. Jamshid Tanha.

2002 – 2007 King Saud University, Riyadh, KSA.

* Full-time student at the Faculty of Applied Medical Sciences in the field of: Clinical Laboratory Sciences.
* Degree completed with the second class honour.

HONOURS & AWARDS

2011 Third place winner. University of Ottawa Seminar Day.

2010 Third place winner. University of Ottawa Poster Day.

2009 Scholarship from King Saud University due to achievement of general grade Excellence in B.Sc. Degree.

2007 Achieved the Appreciation Certificate from King Khalid University Hospital for promptness at work and punctuality.

2007 Achieved the Best Student Certificate from King Saud University (for the academic year 2006/2007) for excellent attendance, outstanding academic record, and being an active member of the University’s academic and social community.

2007 Department’s honor list, King Saud University.

PUBPLICATIONS

Hussack, G., Keklikian, A., **Alsughayyir, J.**, Hanifi-Moghaddam, P., Arbabi-Ghahroudi, M., van Faassen, H. et al. (2012). A V(L) single-domain antibody library shows a high-propensity to yield non-aggregating binders. *Protein Engineering, Design & Selection: PEDS, 25*(6), 313-318.

CONTACT INFO.

e-mail: [jalsughayyir@ksu.edu.sa](mailto:jalsughayyir@ksu.edu.sa),