



## Curriculum Vitae

### Dr. Raed Ismail Felimban

#### **PERSONAL:**

- Name: Raed Ismail A. Felimban
- Date of birth: 17/03/1979      Place of birth: Jeddah, Kingdom of Saudi Arabia.
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#### **EDUCATION:**

- 2015 PhD Degree of Philosophy from The University of Melbourne, Australia.
- 2010 Master Degree in Laboratory Medicine from RMIT University with a GPA above the average of 3.4/4 in all classes taken and Distinction Degree.
- 2002, Bachelor Degree in Laboratory Medicine from King Abdulaziz University is granted with a Very Good Grade (79.26%) and Second Honor Degree.
- 1997, Graduated from High School at Jeddah with an excellent grade (95%).

#### **RESEARCH EXPERIENCE:**

- PhD research project (January 2011-January 2015) at Orthopedic department at St. Vincent's Hospital. A major research interest was in adult mesenchymal stem cells (MSCs) tissue engineering. The aim of the study were: (1) to investigate chondrogenesis using MSCs derived from hIPFP tissue; and, (2) to characterize the temporal changes in gene expression and gene profiles utilizing microarray technique after chondrogenic induction in micromass (pellet) and 3D natural biopolymer scaffolds including chitosan and hyaluronic acid scaffolds.
- MSc research project (March 2010- June 2010) at Murdoch Childrens Research Institute (MCRI) at the Royal Childrens Hospital in collaboration with Cord Blood Stem Cell (CBSC) group on the investigation the interaction between cord blood-derived Unrestricted Somatic Stem Cell (USSCs) and natural kill cells. The aim of the project was to investigate the ability of USSCs to modulate NK cell proliferation.

## WORK EXPERIENCE:

- Vice Director (2020) (still in position) (Patent support and protection unit) (Knowledge Economy & Technology Transfer Center).
- Head of (2020) Patent support and protection unit, (Knowledge Economy & Technology Transfer Center).
- Supervisor (2018-2020) (still in position) (CIPM-3D Bioprinting and Tissue Engineering and Nanomedicine Group) at King Fahd Medical Research Center.
- Judgement committee (Presentation and Posters) 2018 at 9<sup>th</sup> Scientific Forum for King Abdulaziz University students.
- Medical researcher (2017) (Stem Cell Research Unit) at King Fahd Medical Research Center.
- Blood Bank course coordinator (Medical Laboratory Technology Department/Blood Bank and Transfusion Medicine) at King Abdulaziz University, Jeddah Saudi Arabia.
- Assistant professor (still in position) (Medical Laboratory Technology Department/Blood Bank and Transfusion Medicine) at King Abdulaziz University, Jeddah Saudi Arabia.
- PhD students (2011-2010) (full time) at Royal Melbourne Institute of Technology (RMIT), Melbourne, Australia.
- MSCs students (2008-2010) (full time) at Royal Melbourne Institute of Technology (RMIT), Melbourne, Australia.
- 8<sup>th</sup> January 2008, worked as an academic lecturer staff (Immuno-Haematology Department) at King Abdulaziz University, Jeddah Saudi Arabia.
- 1<sup>st</sup> June 2003 to 15<sup>th</sup> January 2008, worked as a Medical Technologist-II (Hematology-Flowcytometry lab) at King Abdul-Aziz Medical City (National Guard Hospital Affairs), which is JCI, CAP, and AABB accredited.
- Internship (July 2001-July 2002) (full time)
  - At King Abdul-Aziz Medical City (National Guard Hospital Affairs) as follow: Six months: Haematology
  - At King Abdul-Aziz University Hospital as follows: Six months: Immunology and Microbiology.

## A list of publications (eg. peer reviewed, conference proceedings) produced or any presentations made.

### A. SCIENTIFIC PUBLICATIONS:

1. Majed Al Zahrani, **Raed Felimban**, Fatma Alzahrani, Talal Qadah. "Hemoglobins disorders among patients: a cross-sectional study from Jeddah City, Western Saudi Arabia" Research article, Clinical Laboratory, 2020.
2. Talal Qadah, Abdulwahab Noorwali, Fatma Alzahrani, Alaa Banjar, Najlaa Filimban, **Raed Felimban**. "Detection of BCL11A and HBS1L-MYB Genotypes in Sickle Cell Anemia" Research article, Indian J Hematol Blood Transfus, 2020. Feb; 10.1007/s12288-020-01270-3.

3. **Raed Felimban**, Ken Ye, Kathy Traianedes, Claudia Di Bella, Jeremy Crook, Gordon G Wallace, Anita Quigley, Peter FM Choong , Damian E Myers. "Differentiation of stem cells derived from human infrapatellar fat pad: Characterization of cells undergoing chondrogenesis" Research article, Tissue Engineering Part A Journal, 2014. Aug; 20(15-16):2213-23.
4. Ken Ye, **Raed Felimban**, Kathy Traianedes, Simon E. Moulton, Gordon G. Wallace, Johnson Chung, Anita Quigley, Peter F. M. Choong, Damian E. Myers. "Chondrogenesis of Infrapatellar Fat Pad Derived Adipose Stem Cells in 3D Printed Chitosan Scaffold" Research article, PLOS ONE, 2014. Jun 11;9(6):e99410.
5. Ken Ye, **Raed Felimban**, Simon E Moulton, Gordon G Wallace, Claudia Di Bella, Kathy Traianedes, Peter FM Choong, Damian E Myers. "Bioengineering articular cartilage: past, present and future". Review. Regen Med., 2013. May 8(3): p. 333-49.

**B. ORAL PRESENTATIONS:**

1. **Raed Felimban**, Ken Ye, Kathy Traianedes, Claudia Di Bella, Jeremy Crook, Gordon G Wallace, Anita Quigley, Peter FM Choong, Damian E Myers. "Differentiation of stem cells derived from human infrapatellar fat pad for cartilage engineering: Characterization of cells undergoing chondrogenesis". "3rd World Congress on Cell Science & Stem Cell Research" conference to be held on November 20-22, 2013 in Baltimore, USA.
2. **Raed Felimban**, Ken Ye, Kathy Traianedes, Claudia Di Bella, Jeremy Crook, Gordon G Wallace, Anita Quigley, Peter FM Choong, Damian E Myers. "Differentiation of stem cells derived from human infrapatellar fat pad for cartilage engineering: Characterization of cells undergoing chondrogenesis". Visitor lab tour, Intelligent Polymer Research Institute (IPRI), University of Wollongong, 2013.
3. **Felimban R**, Ye K, Di Bella C, Crook J, Choong PFM, Myers DE. "Tissue Engineering of Hyaline Cartilage from human IPFP Stem Cells". Five minutes competition presentation (Research week-2012), St. Vincent hospital, 2012.
4. **Felimban R**, Ye K, Di Bella C, Crook J, Choong PFM, Myers DE. "Engineer Articular cartilage (AC) from human-Infrapatellar fat pad (IPFP) stem cells /novel induced pluripotent stem cells (iPSCs) for transplantation therapy". Ph.D confirmation presentation, St. Vincent hospital, 2012.

5. **Felimban R**, Ye K, Di Bella C, Crook J, Choong PFM, Myers DE. "Osteochondral tissue engineering: Application of stem cell technologies". Departmental annual meeting, St. Vincent hospital, 2011.

#### **C. SUPERVISION PROJECTS:**

1. AlAdwani S, **Felimban R**. "Determination of HLA Alloimmunization in Sickle Cell Anemia", 2018.
2. Alsamiri A, **Felimban R**. "Diversity of Beta globin gene haplotypes among hemoglobinopathies patients", 2018
3. Tashkandi D, Baamer R, , Felimban R. "istribution of ABO-Rh (D) among sickle cell patients in KAUH and its association with vitamin D deficiency", 2018
4. Sumeda S, **Felimban R**. "Prevalence of Kell Blood Group System Antigens Kp<sup>a</sup>, Kp<sup>b</sup> in Jeddah", 2017
5. Robins S, **Felimban R**, Ye K, Choong PFM, Myers DE. "The Use of Biopolymer Scaffolds to Grow Osteochondral Implants for Reconstructive Surgery", 2013
6. Sharp S, **Felimban R**, Ye K, Choong PFM, Myers DE. "Improving Surface Properties of Nanostructured Titanium for Solid Prostheses", 2013

#### **Grants**

1. Targeting Acute Myeloid Leukemia Using Novel Combination of Targeted Agents: Co inhibition of PI3K/AKT/mTOR axis and the BCL2-family. (Approved by KAU-DSR, application number G: 292-142-1441, Budget 41000), 2019-2020.
2. Developing a Well-Defined 3D Leukemic Disease Model Using Cancer Stem Cells (Derived from Cell Lines and Patients) to Determine the Optimal Chemotherapy Regimen and to Assess Drug Resistance. (Approved by KAU-DSR, application number JP-19-003, Budget 300,000), 2018-2019.
3. Distribution of Kell Blood Group Antigens K, k, Kpa and Kpb in Jeddah City-KSA. (Approved by KAU-DSR, application number G: 3-142-1439, Budget 41000), 2018-2019.