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Amman – Jordan

Hanan D. Jafar, BDS MSc PhD

Personal Info

Nationality : Jordanian

Birth Date : Feb. 5th, 1982

Social Status : Married

Address : Amman-Jordan

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Languages

Arabic : Mother Tongue

English : Excellent

Objectives

- To work in a friendly environment in order to gain experience and exploit my full potentials, use my knowledge, experience, and professionalism to perform all the requirements of my assigned duties, get exposed to new technologies, and participate in them.
- To be part of advancing scientific research in the field of cell biology and regenerative medicine, and to study the translational aspects of this research so that it can be applied to patients.
- To be able to transfer my academic knowledge and experiences to early career scientists and students, and to mentor them into achieving their full potential.

Education

- PhD Biology (Thesis Title: In vitro evaluation of stem cells from the apical papilla (SCAP) and periodontal ligament stem cells (PDLSCs) in the presence of platelet lysate)
University of Jordan (2012-2015) Grade (3.98/4)
- MSc Anatomy, Histology & Embryology
University of Jordan (2008) Grade (3.73/4)
- DDS Oral and Dental Surgery
University of Jordan (2005) Grade (3.62/4)
- Tawjihi certificate, Scientific Stream.
N.T.S HIGH SCHOOL, Average (94.8%).

Scholarships and Awards

- TechWomen Emerging Leaders Fellowship United States Department of State's Bureau of Educational and Cultural Affairs
- PhD studentship University of Jordan (rank 1st in class)
- MSc studentship University of Jordan (rank 1st in class)
- BDS studentship University of Jordan (rank top 3 in class)

Work Experience

- 1/9/2014 – present time Instructor/Faculty Member, Department of Anatomy, Histology & Embryology / School of Medicine University of Jordan
- 2/9/2011 – present time Assistant Director, Cell Therapy Center University of Jordan
- 23/10/2008 –1/9/2011 Lecturer/Faculty Member, Department of Anatomy, Histology & Embryology / School of Medicine University of Jordan
- 16/4/2006 – 22/10/2008 Teaching and Research Assistant, Department of Anatomy Histology & Embryology / School of Medicine University of Jordan
- 1/2/2006 – 31/3/2006 Practicing Dentist, Jordan University Hospital
- 12/7/2005 – 12/1/2006 Dental Intern, Jordan University Hospital

Key Responsibilities at Current Position

- As Executive
 - Organizing and note-keeping of Board meetings
 - Participating in several committees and meetings
 - Overseeing quality assurance, standard operating procedures development, and proper documentation
 - Participating in planning, developing and managing a budget
 - Participating in the recruitment and selection process of employees
- As Manager
 - Making decisions on purchasing orders and organizing priorities in order to meet the center's vision
 - Participating in preparing the center's strategic plan with a special focus on drawing procedures and policies for implementation
 - Providing guidance and leadership for performance
 - Overseeing several projects and managing them logistically, financially and scientifically
- As Researcher
 - Leading planning for the development of new clinical trials
 - Performing literature review and prior art search
 - Participating in writing grant applications, scientific publications and patent applications
 - Providing technical support on several experiments and equipment
 - Performing several research techniques and teaching them to my team members
- As Faculty Member
 - Delivering lectures and hand-on demonstrations to undergraduate medical, dental, pharmacy, nursing and rehabilitation students in Human anatomy, Histology, and Embryology
 - Supervising several research groups consisting of researchers,

- graduate and under- graduate students
- Participating in several committees and meetings with regard to student affairs

Publications

- Al Demour S, **Jafar H**, Adwan S, AlSharif A, Alhawari H, Alrabadi A, Zayed A, Jaradat A, & Awidi, A. (2018). Safety and Potential Therapeutic Effect of Two Intracavernous Autologous Bone Marrow Derived Mesenchymal Stem Cells injections in Diabetic Patients with Erectile Dysfunction: An Open Label Phase I Clinical Trial. *Urologia internationalis*, 1-8.
- Hasweh N, Awidi A, Rajab L, Hiyasat A, **Jafar H**, Islam N, Hasan M, & Abuarqoub D. (2018). Characterization of the biological effect of Biodentine™ on primary dental pulp stem cells. *Indian Journal of Dental Research*, 29(6), 787.
- Abu-Ameerh M, **Jafar H**, Hasan M, Al Bdour M, Msallam M, Ababneh O, Alhattab D, Al-Kurdi B, Awidi A, & Awidi A (2018). Platelet lysate promotes re-epithelialization of persistent epithelial defects: a pilot study. *International ophthalmology*, 1-8.
- Azab B, Barham R, Ali D, Dardas Z, Rashdan L, Bijawi M, Maswadi R, Awidi A, **Jafar H**, Abu-Ameereh M, Al-Bdour M, Amr S, & Awidi A (2018). Novel CERKL variant in consanguineous Jordanian pedigrees with inherited retinal dystrophies. *Canadian Journal of Ophthalmology*.
- Al-Najar M, Khalil H, Al-Ajlouni J, Al-Antary E, Hamdan M, Rahmeh R, Alhattab D, Samara O, Yasin M, Al-Abdullah A, Al-Jabbari E, Hmaid D, **Jafar H**, & Awidi A. (2017). Intra-articular injection of expanded autologous bone marrow mesenchymal cells in moderate and severe knee osteoarthritis is safe: a phase I/II study. *Journal of Orthopaedic Surgery and Research*, 12(1), 190.
- Azab B, Dardas Z, Hamarsheh M, Alsalem M, Kilani Z, Kilani F, Awidi A, **Jafar H** & Amr S. (2017). Novel frameshift variant in the IDUA gene underlies Mucopolysaccharidosis type I in a consanguineous Yemeni pedigree. *Molecular Genetics and Metabolism Reports*, 12, 76-79.
- Kailani M, **Jafar H** & Awidi A. (2016). Synthetic Biomaterials for Skin Tissue Engineering. *Skin Tissue Engineering and Regenerative Medicine*, 163.
- **Jafar H** & Mahasneh A. (2015). Probiotics: The Forth Coming Oral Health Alternative Therapy. *Jordan Medical Journal*, 49(1).
- Alshaaer M, Kailani M, **Jafar H**, Ababneh N, & Awidi A. (2013). Physicochemical and microstructural characterization of injectable load-bearing calcium phosphate scaffold. *Advances in Materials Science and Engineering*, 2013.
- Awidi A, Abu Harfeil N, **Jafar H**, Abu Arqoub D, Ismail S & Kailani

M. (2012). The in vitro effect of autologous platelet lysate on different types of mesenchymal stem cells. *Regen Res*, 1(1), 25-32.

Research and Professional experience

- Fellowship at Ionpath Inc. (a start-up out of Stanford University), as part of US state department program Techwomen
- Associate researcher in Cutaneous group Blizzard Institute for regenerative medicine Queen Mary University of London
- Tissue culture techniques including primary cells and cell lines (maintaining cell culture, passaging, freezing thawing, colony forming efficiency, ...)
- Microscopy techniques including scanning and transmission electron microscopy, confocal microscopy, wide field fluorescence microscopy, conventional light microscopy
- Histopathology sample preparation and electron microscopy sample preparation
- Molecular biology techniques: DNA and RNA extraction, conventional PCR, Real time PCR, basic knowledge of sequencer and next generation sequencer, basic knowledge of flow cytometry and microarray
- Basic understanding of analytical methods using mass spectrometry

Grants and Research Projects

- Mesenchymal stem cells as a therapeutic option for diabetic nephropathy; An in vitro study, **Principal Investigator** (Grant: 15000JD)
- Comparative assessment of different doses of Wharton Jelly mesenchymal stem cells in the treatment of diabetes-related erectile dysfunction: A phase I-b clinical trial, **Associate Investigator** (Grant: 19400JD)
- Use of allogenic adipose derived mesenchymal stem cells in the treatment of knee osteoarthritis: A phase I/II clinical trial, **Associate Investigator** (Grant: 20000JD)
- Use of stem cells in newly diagnosed type 1 diabetes mellitus adults: A phase I clinical trial, **Principal Investigator** (Grant 20000JD)
- Application of next generation sequencing for the molecular diagnosis of retinitis pigmentosa patients in Jordan, **Associate Investigator** (Grant: 49300JD)
- Next generation sequencing for the diagnosis of hereditary hearing loss, **Associate Investigator** (Grant: 20000JD)
- Developing a novel tracking system for mesenchymal stem cells, **Associate Investigator** (Grant: 20000JD)
- Functional characterization of stem cells from dental apical papilla and periodontal ligament in the presence of platelet lysate, **Principal Investigator** (Grant: 30000)
- Production of corneal epithelium derived from limbal stem cells, **Associate Investigator** (Grant:481590JD)
- Assessment of intracavernous injection of autologous bone marrow derived mesenchymal stem cells for the treatment of diabetes associate erectile dysfunction, **Associate Investigator** (Grant: 10000JD)

- Safety and efficacy of intramuscular platelet lysate injection in peripheral arterial disease patients, **Associate Investigator** (Grant: 28674JD)
- Comparative assessment of platelet lysate injection in long-standing diabetic foot ulcers: A double-blind placebo controlled clinical trial, **Associate Investigator** (Grant: 40000JD)
- Production of human skin in vitro, **Associate Investigator** (Grant: 300000JD)
- Molecular diagnosis of familial breast cancer patients through next generation sequencing of BRCA genes, **Associate Investigator** (Grant: 53000JD)
- Use of Wharton jelly mesenchymal stem cells in inflammatory bowel disease, **Co-Primary Investigator** (Grant: 143000JD)

Courses

- Design thinking and impact design workshop, by Autodesk, California, USA
- Leadership workshop, by LinkedIn, California, USA
- Advanced Botulinum Toxin and Dermal Filler Training, by American Academy of Facial Esthetics, Miami, USA
- NIH Clinical Research Training course, by National Institute of Health (USA), on-line course
- Research Ethics; Waiver of Informed Consent: What are the Criteria, by University of Maryland (USA), on-line CME course
- Advanced confocal microscopy, by Zeiss, Munich, Germany
- Introduction to electron microscopy, by FEI, University of Jordan, Jordan
- Innovating strategically workshop, by Institute of Management Consultants, Amman, Jordan
- Introduction to Confocal and super-resolution microscopy (ZEISS LSM 780 with Elyra system), by Zeiss, University of Jordan, Jordan
- Basics of scanning electron microscopy, Jordan University of science and technology, Jordan
- Advanced training on dual beam electron microscope, FEI academy, Netherlands
- Imaging at the nano level symposium, Oregon University of health and sciences, USA
- Real time PCR principles and practice, University of Jordan
- Basics of Tissue Culture, University of Jordan
- A 3-month course in Teaching Methods, 2009, University of Jordan
- A 6-month course in Dental Implantology, 2006, American Academy of Implant Dentistry, Jordan University of Science and Technology

Memberships

- Vice president of Jordanian national stem cell committee
- Jordan dental association
- American academy of implant dentistry

Computer Activities

- Using all Windows Applications such as MS Office (Word, Excel, PowerPoint, and access database).

Personality

- Productive and efficient.
- Excellent leadership qualities.
- Have good organizational skills and able to work under minimal

- supervision.
- Have the ability to work under pressure.
 - Strong communication skills and excellent troubleshooting skills.
 - Motivating others to provide a high level of service.
 - Focused and target-oriented.

References

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Qatar Foundation
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