Dr. Ohoud Rehbini

Molecular Biology Researcher and Data Scientist

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https://github.com/ohoudrehbini?tab=repositories

Profile

Ambitious and self-motivated professional with professional experience gained through developing environments. My commitment powered by gaining a doctoral degree has enhanced my strength in data science and data analysis by planning data projects and building predictive models. Passion for data analysis and data interpretation has helped me in critical thinking, decision-making, communication, project management and leadership skills .Working knowledge in translational medicine aimed to enhance my professional horizons through joining the research and industry field where I would be able to encounter a new responsibility.

Skills

Personal skills: Team players and Leadership - Proficient in written and verbal communication - Logic and Independent mind - Strategic planning - Presentation skills - Easily adapted with new environment - Analytical thinking - Project management – Determination - Meticulous attention to details and accuracy.

Core skills: Cell culture - Lentiviral transduction system - Molecular biology - Cell biology - Protein biology - Mitochondrial biology - miRNA and chromatin technique - Animal model - CRISPR-CAS9 design - Knowledge of laboratory safety and best practices - Attentive and organized.

Programming language: Python [SQL, pyTorch, TensorFlow, Matlab, SciPy, Scikit-learn, NumPy, MNE]

Software: SPSS, Image J and Flow Jo, Bioinformatics analysis, Graph-Pad, Microsoft Office, Plasmid Editor, CLC genomic.

Certificate and Approval

Animal approval certificate (IACUC) (Temple Uni.)

Human research certificate (CITI) (Temple Uni.)

mRNA reprogramming Tip and techniques (University of Sheffield)

Data scientist Immersive (General Assembly)

Python Programming (General Assembly)

AI for everyone (Coursera)

Data Scientist Nano-degree (Udacity)

Working Experience

- **Program Facilitator** 02/2020 to 03/2020

Misk-academy course Internet Of things (IOT) .Samsung innovation campus, AlFaisal University. Misk Academy , Riyadh, Saudi Arabia.

- **Post-doctoral Research Fellowship** 06/2018 to 05/2019

Dr Beata Kosmider Lab at Temple University, Lewis Katz School of medicine (medical research educational building), Center of Inflammation, Translational and Clinical Lung Research, Temple University. Philadelphia, Pennsylvania, USA From.

- **Science Researcher Trainee** 03/2017 to 03/2018

Dr. Taoufik Nedjadi in king Abdullah International Medical Research Center (KAIMRC)- Jeddah, KSA, Cancer Biomedical Department laboratory

- **Public engagement, Training and Teaching** (09/2005- 12/2016)

Education

- **Deep Learning** (Udacity –Nanodegree) from 25 February 2020 – Present
- **Data Scientist** (Udacity – Nanodegree) from 01 September 2019 – 20 February 2020 Online Immersive course
- **Data scientist** (MISK academy) from June 2019 – 22 September 2019 General Assembly-Al-Faisal University
- **Ph.D. in pathology (epigenetic and cancer stem cells)** from April 2011 to December 2016 from the Institution of Cancer Sciences, Epigenetic Department at Dr. Katherine West Laboratory
- **MSc Degree in Medical Genetic** from Newcastle University, from September 2009 - September 2010, The Center For Life Institution For Medical Genetics at Dr. Gordon Strathdee
- **BSc Degree in Biochemistry** from King Abdulaziz University, Jeddah, KSA, School of Science, Biochemistry Department from June 2000 - August 2005

Publication

Garza-Manero, Sylvia, et al. "Maintenance of active chromatin states by HMGN2 is required for stem cell identity in a pluripotent stem cell model." Epigenetics & chromatin 12.1 (2019): 1-18.

Projects

- Tracking the participants' attendance, help instructor to complete grading tools, engaged with participants in the course and provides consultation in their projects and capstone and help in time and course managements.
- Creating a Machine learning model for Electroencephalography (EEG) spike detection for Epilepsy.
- Investigate the role of high mobility nucleosomal binding protein (Hmgn2) in undifferentiated mouse epiblast carcinoma stem cells using Lentiviral and CRISPR-CAS9 system to knockdown HMGN2 in mouse embryonic stem cells and mouse teratocarcinoma stem cells.
- Investigate the role of DNA hypermethylation at the CpG island in non-Hodgkin lymphoma patients sample.
- Literature review on the role of turmeric plant in cancer treatment.
- The effect of epigenetic (miRNA) on patients with COPD and IPF as potential biomarker.
- Investigate the role of hyper-methylated genes in COPD patients.
- Prognostic value of Osteopontin (OPN) protein expression in Urothelial bladder cancer using Tissue Microarray for protein expression and SPSS for data analysis.