

## CURRICULUM VITAE

### **Kazem Dastjerdi, DVM, PhD**

Assistant Professor (April 2013- present)

Cell and Molecular Sciences Group, Department of Basic Science, Faculty of Medicine, Birjand University of Medical Science, Birjand, Iran.

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### **Education and Training**

- **Research Assistant** at Westmead Millenium Institute for medical research (WMI) , Westmead Hospital, The University of Sydney, Sydney, Australia. **Field of research:** Fundamental research on the regulation of adiponectin secretion in adipocytes by the nuclear receptor FXR, and also TGR5; **Exploring a novel Cell Signaling Pathway** (2012).
- **Ph.D student in biotechnology** at Ferdowsi University of Mashhad, Iran. **Field of research and thesis:** Generation of Enriched Pool of DNA **Aptamers** for HER2 Overexpressing Cell Line Using Cell –SELEX (2007-2012).
- **Doctorate in Veterinary Medicine (D.V.M.)**. School of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran(1994-2000).

### **Member of American Chemical Society (ACS) (2011-present)**

### **Language Skill**

IELTS Overall Band Score 7.5 (2006)

## **Certificates:**

- edx certificate in Introduction to R Programming
- edx XSeries Program verified certificate in Genomic Data Analysis
  - edx certificate in Introduction to Bioconductor: Annotation and Analysis of Genomes and Genomic Assays
  - edx certificate in Case Studies in Functional Genomics
  - edx certificate in High-performance Computing for Reproducible Genomics
- edx certificate in Data Analysis for Life Sciences 1: Statistics and R
- edx certificate in Data Analysis for Life Sciences 2: Introduction to Linear Models and Matrix Algebra
- edx certificate in Data Analysis for Life Sciences 3: Statistical Inference and Modeling for High-throughput Experiments
- edx certificate in Data Analysis for Life Sciences 4: High-Dimensional Data Analysis
- edx certificate in Data Analysis for Life Sciences 5: Introduction to Bioconductor: Annotation and Analysis of Genomes and Genomic Assays

## **Research interests and areas of expertise**

- Cancer research
- Nucleic acid-based drugs discovery with special interest in Aptamer biosynthesis
- Non Invasive Prenatal Diagnosis
- Clinical application of Next-generation sequencing (NGS)
- Production of Molecular Diagnostic Kits

## **Experimental Techniques**

- Molecular and cellular biology techniques
- Recombinant DNA technology and Genetic engineering
- SELEX and Cell SELEX Technique
  
- siRNA Gene knockdown
  
- Expression analysis and characterization of cellular proteins, and protein- protein interactions
  
- Cell Culture
- Fluorescence microscopy
- PCR, RT- PCR, RACE
- SDS-PAGE , Western blotting, Southern blotting and Northern blotting
- DNA and RNA Fluorescence in situ hybridization (FISH), immune FISH, and immunocytochemistry
  
- Centrifugal Elutriation( Cell Separation techniques)
- Protein biochemistry
- Techniques in working with Mouse models of disease

### Teaching Experience (April 2013- present)

#### Courses List

No	Course Title	Level
1	Biotechnology and Genetic Engineering	Ph.D
2	Medical Genetics	Ph.D
3	Molecular Genetics	Ph.D
4	Cell Signaling Pathway	Ph.D
5	Bioinformatic	Ph.D
6	Molecular Diagnostics	M.Sc.
7	Medical Genetics	MD
8	Molecular biology	M.Sc.
9	Molecular biology (Lab Techniques)	B.Sc.
10	Medical Genetics	B.Sc.

## Innovative Achievements

**Non Invasive Early Fetal Sex Determination Kit patent acquisition from Iran Intellectual Property Office (2017)**

**Acquisition of knowledge based grade for Nic Gene O Gene Company from Iran Science and Technology Vice presidency(2017)**

**MTHFR Genotyping Kit Manufacturing**

**COVID 19 One Step RT – PCR Kit Manufacturing**

## Publications

**Title:** Comparison of Fecal Egg Counts and Elisa for the Diagnosis of *Dicrocoelium dendriticum* Infection

**Author(s):** Naeemipour M, Hashemitabar GR, Dastjerdi K, Mojaver MJ, Mohammadi HR.

**Source:** [Pol J Vet Sci](#). 2016 Sep 1; 19(3):573-580. **Published:** 2016

**DOI:** 10.1515/pjvs-2016-0072

**Title:** Enriched DNA aptamer pool for HER2-positive breast cancer cell line

**Author(s):** Dastjerdi, K., Hashemi Tabar, G.R., Valadan, R

**Source:** Journal of Cellular Immunotherapy 1 (2015); **Published:** 2015

**DOI:** 10.1016/j.jocit.2015.10.016

**Title:** Generation of Enriched Pool of DNA Aptamers for HER2 Overexpressing Cell Line Using Cell – SELEX

**Author(s):** Dastjerdi, K., Hashemi Tabar, G.R., Dehghani, H., Haghparast

**Source:** Biotechnol Appl Biochem . 58(4) :226-30 ; **Published:** 2011

**Times Cited:** 27

**DOI:** 10.1002/bab.36

**Title:** An epidemiological study on Anaplasma infection in cattle, sheep and goats in Mashhad suburb, Khorasan province, Iran

**Author(s):** Razmi, G.R., Dastjerdi, K., Hossieni, H., Naghibi, A., Barati, F and Aslani, M.R.

**Source:** Ann.N.Y.Acad.Sci.1078: 479-481; **Published:** 2006

**Times Cited:** 27

**DOI:** 10.1196/annals.1374.089

**Title:** An epidemiological study on babesia infection in small ruminants in Mashhad suburb, Province of Khorasan, Iran

**Author(s):** Razmi, Gh.R., Naghibi, A., Aslani, M., Dastjerdi, K., Hossieni, H.

**Source:** Small.Ruminants Research.50:39-44; **Published:** 2003

**Times Cited:** 41

**DOI:** 10.1016/S0921-4488(03)00107-X

**Title:** An epidemiological study on ovine babesiosis in the Mashhad suburb, Province of Khorasan, Iran

**Author(s):** Razmi, Gh.R., Naghibi, A., Aslani, M.R., Fathivand, M., Dastjerdi, K.

**Source:** Vet Parasitol.108:109-115; **Published:** 2002

**Times Cited:** 41

**DOI:** 10.1016/S0304-4017(02)00203-0

استاد هسته پژوهشی نخبگان دوره چهارم با عنوان " تحلیل رفتار تهاجمی تومورهای متاستاتیک از نوع HER2+ Breast Cancer از جنبه‌های مختلف بار هیافت سیستم بیولوژی و داده‌کاوی ژنومیکس به منظور پیشنهاد رهیافت‌های درمانی نوین و موثر".

## References:

**Professor Jacob George**, Robert W. Storr Chair of Hepatic Medicine, Professor of Gastroenterology and Hepatic Medicine, Director of Gastroenterology and Hepatology Service, Storr Liver Unit, Westmead Hospital, PO Box 533, Wentworthville NSW 2145, Australia, T +61 2 9845 7705, F +61 2 9635 7582, E [jacob.george@sydney.edu.au](mailto:jacob.george@sydney.edu.au)

**Professor Hesam Deghani**, Embryonic and Stem Cell Biology and Biotechnology Research Group, The Research Institute of Biotechnology, Ferdowsi University of Mashhad, Azadi Square, Mashhad, Iran, 91779-48974, Email: [deghani@um.ac.ir](mailto:deghani@um.ac.ir); [hesamdeghani@gmail.com](mailto:hesamdeghani@gmail.com).