Raziyeh Abooshahab

Personal Information

Date of birth: 7 June 1986
Nati Nationality: Iranian
+98 9132654818
ra_shahab@yahoo.com

Education

2011 – 2014 **M.Sc. in Biochemistry**

Islamic Azad University, Science and Research Branch, Tehran, Iran & Cellular Molecular and Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran..

Thesis Title: Association study of serum Adiponectin and Leptin levels in medullary thyroid carcinoma

Objective: investigation the biochemical blood markers that could replace biopsy for cancer patients.

2004 –2008 **B.Sc. in Biochemistry**
BSc in Biochemistry, Falavarjan Islamic Azad University, Isfahan, Iran.

Work and research experience

- Research Assistant on Department of Medical Biotechnology, Biotechnology Research Center, Pasteur Institute of Iran (IPI), Tehran, Iran. October 2012-June 2013
  Subject:
  - Investigating the changes in metabolic behavior of recombinant CHO DG44 cells exposed to peptone supplementation.

  Advisor: Assist. Prof. Dr. Fatemeh Davami

- Research Assistant and Metabolomics Lab manager at Cellular Molecular and Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences, Tehran, Iran
  July 2013- present
  Subject:
  - Association study of serum Adiponectin and Leptin levels in medullary thyroid carcinoma.
  - Expression Assessment of TSPAN1 and Fibulin1 Proteins in Benign and Malignant Thyroid Tumours
  - Assessment of Expression Changes of MT4-MMP and MT6-MMP Proteins in Papillary Thyroid Carcinoma and its Association with lymph node Metastasis
  - Metabolomics Study of Human Thyroid Cancers

Professional skills

- **Scientific writing.**
- **Molecular and cellular biology techniques:**

Cell culture, metabolic assays, DNA & RNA extraction, Electrophoresis, Western blotting, Dot blotting, Flow cytometry, One-and two-dimensional gel electrophoresis , ELISA, PCR, RT-PCR, Cloning, metabolite extraction, GC/MS based metabolomics

- **Imaging**: Light, florescence microscopy.

- **Data analysis and interpretation:**

Software: Microsoft Word/Excel/PowerPoint, Statistical analysis software (SPSS), Metaboanalyst, SIMCA, R statistical software

Short term professional Training and Workshops

- Online Course in Metabolomics: Understanding Metabolism in the 21st Century. University of Birmingham, July 2018

- Two months of training in proteomics and interpretation of proteomics data as part of being Biotechnology Research Center fellow, Pasteur Institute of Iran (IPI), Tehran, Iran, Apr-May 2014

- Workshop on Genetic engineering, cloning and DNA plasmid extraction, November 2013, National Institute for Genetic Engineering and Biotechnology, Tehran, Iran

- Workshop on Cell culture techniques. February 2012, Biotechnology Research Center, Pasteur Institute of Iran (IPI), Tehran, Iran

Publications

Abooshahab R, and Dass RC. "The biological relevance of pigment epithelium-derived factor on the path from aging to age-related disease." *Mechanisms of Ageing and Development* (2021): 111478.

Hedayati M., **Abooshahab R.,** Razavi S.A. et al. Low level of plasma fibulin-1 in patients with thyroid lesions: a case-control study and literature review. Mol Biol Rep 47, 8859–8866 (2020).

Abooshahab R, Hooshmand K, Razavi SA, Gholami M, Sanoie M, Hedayati M. Plasma metabolic profiling of human thyroid nodules by gas chromatography-mass spectrometry (GC-MS)-based untargeted metabolomics. Frontiers in Cell and Developmental Biology. 2020; 8:385.

Abooshahab R, Gholami M, Sanoie M, Azizi F, Hedayati M. Advances in metabolomics of thyroid cancer diagnosis and metabolic regulation. Endocrine. 2019 Apr 1:1-4.

Abooshahab R, Niyazi E, Yaghmaie P, Ghadaksaz HG, Hedayati M. Serum level of dipeptidyl peptidase-4 as a potential biomarker for medullary thyroid cancer. *Exp Oncol*. 2018;40(4):299-302.

Abooshahab R, Yaghmaei P, Ghadaksaz HG, Hedayati M. Lack of Association between Serum Adiponectin/Leptin Levels and Medullary Thyroid Cancer. Asian Pac J Cancer Prev. 2016; 17(8):3861-4

Conferences attended

Oral and Poster Presentations

- **Plasma metabolic profiling of human thyroid nodules by gas chromatography-mass spectrometry (GC-MS)-based untargeted metabolomics.** 2nd Annual MANA conference, University of Michigan, USA, 14-16 September, 2020 online. **Raziyeh Abooshahab**, Cellular and Molecular Endocrine Research Center, Research Institute for Endocrine Sciences, Shahid Beheshti University of Medical Sciences **(Primary Presenter).**

- **Serum level of Dipeptidyl peptidase-4 as a potential biomarker for medullary thyroid cancer.** 1st International Congress on Biomedicine, Tehran, Iran, 18-21 Dec, 2017

- **Association of circulating Adiponectin and Leptin levels with medullary thyroid cancer**. 40th FEBS Congress the Biochemical Basic of Life, Berlin, Germany, 4-9 July, 2015.

- **Circulating Adiponectin Levels in Medullary Thyroid Cancinoma**. 10th International Congress of Endocrine Disorders, Tehran, Iran, 22-24 Oct, 2014

- **Investigating the effect of 4 different peptone agent on cellular growth and protein production of CHO DG44 cells by purpose to optimizing the best condition**. 8th Iranian Congress of Biotechnology & 4th Iranian Congress of Immunology, Tehran, Iran, 6-8 jul,2013

Languages

English: Good in spoken and written English
Persian: Native
Spanish: Elementary Level

Hobbies

- Writing Poem
- Playing Violin
- Reading medical and scientific journals