



Hoda Khoshnevis

CV Hoda Khoshnevis

DoB: 1986-09-16

Contact



hoda.khoshnevis@gmail.com



Tehran, Iran

Skills

Cell culture chromosome analysis FISH

DNA & RNA Extraction Electrophoresis

c-DNA synthesis Multiplex PCR, RT-PCR

Reverse Dot Blotting

Specimen collection (blood)

General Management skills NGS analysis

Sanger sequencing Microsoft office

spss, endnote Research



Education

Master in Basic Sciences, Biology

Branch: Cellular & Molecular Biology

Institute/University: University of Science and Culture

Tehran, Iran

2011 - 2014

Bachelor in Basic Sciences, Biology

Branch: Genetic

Institute/University: Shahed University

Tehran, Iran

2004 - 2009

Diploma in Mathematics and Physics

Institute/School: National Organization Development of Exceptional Talents

Bojnourd, North Khorasan , Iran

2000 - 2002



Work Experience

Executive Manager

Iranian Research Center for HIV/AIDS (IRCHA), Tehran University of medical sciences

Tehran, Iran

Since December 2021

Cell Technician

Fetus Genetic Lab

Tehran, Iran

April 2020 - June 2020

Tasks and Achievements

- Setup of Amniotic fluid cell culture and chromosome analysis

Supervisor of Corona Lab

Corona Laboratory of Imam Khomeini Hospital, Tehran University of medical sciences

Tehran, Iran

March 2020 - December 2021

Tasks and Achievements

- organize and management of techniques and human resources

Supervisor of Genetic Lab

Medical Genetic Laboratory of Imam Khomeini Hospital, Tehran University of medical sciences

Tehran, Iran

August 2019 - December 2021

Tasks and Achievements

- organize and management of techniques and human resources

Language

English

Reading Level ★★★★★☆

Writing Level ★★★★★☆

Speaking Level ★★★★★☆

Listening Level ★★★★★☆

Persian

Reading Level ★★★★★★

Writing Level ★★★★★★

Speaking Level ★★★★★★

Listening Level ★★★★★★

Social Network



[linkedin.com/in/hoda-khoshnevis-969327205](https://www.linkedin.com/in/hoda-khoshnevis-969327205)

Genetic Expert

Medical Genetic Laboratory of Imam Khomeini Hospital, Tehran University of medical sciences

Tehran, Iran

Since April 2017

Tasks and Achievements

- Setup of Bone marrow aspiration cell culture and chromosome analysis in medical Genetic ward, Cytogenetic laboratory of Imam Khomeini hospital
- Setup of Stem cell (hMSc,...) culture and chromosome analysis and work in medical Genetic ward, Cytogenetic laboratory of Imam Khomeini hospital(in contract with Cell tech Pharmed company of Iran)
- Setup of Amniotic fluid cells culture and chromosome analysis at prenatal diagnosis (PND) section in medical Genetic ward, Cytogenetic laboratory of Imam Khomeini hospital

cell technician

Nogen Genetic Laboratory

Tehran, Iran

November 2016 - March 2017

Tasks and Achievements

- Setup of the peripheral blood culture and chromosome analysis

Cell Technician

Bahar Laboratory

Tehran, Iran

September 2014 - June 2015

Tasks and Achievements

- Setup of Amniotic fluid cells and peripheral blood cells culture and chromosome analysis in cytogenetic section of Bahar Laboratory

Cell Technician

Cytogenome Genetic Laboratory

Tehran, Iran

March 2014 - June 2014

Tasks and Achievements

- Setup of Amniotic fluid cell culture and chromosome analysis

Cell Technician

Genetic Laboratory of Omid fertility Clinic

Tehran, Iran

February 2013 - June 2013

Tasks and Achievements

- Setup of the peripheral blood and chromosome analysis

Genetic Expert

Medical Genetic Laboratory of Women Hospital

Tehran, Iran

March 2011 - May 2012

Tasks and Achievements

1. Cell culture, harvest, slide preparing and G-banding of Amniotic fluid cell, peripheral blood cell and cord blood cell
2. Human Papilloma Virus (HPV) genotyping (RT-PCR)
3. detection of thrombophilia mutations in patients with recurrent abortion

Laboratory Expert

Medical laboratory of Imam Reza Hospital

Bojnourd, North Khorasan , Iran

June 2010 - August 2010

Tasks and Achievements

- internship in general medical laboratory (hematology, microbiology, blood bank, hormone, biochemistry,...)

Laboratory Teacher Assistant

Agricultural Department of Azad Islamic University

Bojnourd, North Khorasan , Iran

November 2009 - March 2010



Projects

The study of molecular pathway of COX-2 inhibitor on MMPs from metastatic cascade in androgen dependent and independent prostate cancer

For: Master thesis



References

Dr. Reza Shirkoohi

MD PhD, Professor in Genetic Medicine, Cancer Research Center, Cancer Institute, Tehran University of Medical sciences

rshirkoohi@tums.ac.ir

Dr. Abbas Shakoori

MD PhD, Chairman of Medical Genetic Ward, Imam Hospital Complex, The Largest Hospital in Iran, School of Medicine, Tehran University of Medical Sciences

Shakooria@tums.ac.ir

Dr. Saeid Amanpour

DVM, DVSc, Deputy Head of Research Center, Cancer Institute of Iran Tehran University of Medical Sciences

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Dr. Seyyed Abulhassan Shahzade Fazeli

MD ,Ph.D Molecule Genetic President of Iranian Biological Resource Center (IBRC)

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Dr. Ahad Mohamadnejad

Cancer Biology Research Center, Cancer Institute of Iran, Tehran University of Medical Sciences

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Dr. Mohammad Reza Zamanian

MD (TUMS), MSc (UPM), PhD (UPM) Director of Molecular Genetics Laboratory Department of Reproductive Biomedicine Royan Institute

mrzamanian@royaninstitute.org



Teaching

● **Head of training course of cell culture for genetics, midwifery and nursing students in Imam hospital genetic lab, Tehran**

2016-2019

Course title: Amniotic fluid cell culture, Peripheral blood cell culture, tissue culture & Bone marrow cell culture skills • Culturing and harvesting • Slide preparing • G-banding • Chromosome analysis

● **Teacher of training course in Women Hospital genetic lab, Tehran**

2011-2013

Course title: Laboratory skills • Good Laboratory Practice (GLP) • Molecular Laboratory primary Skills • Cytogenetic Laboratory primary Skills • Cell culture contamination by yeast and bacteria: How to avoid it, recognize it & Get rid of it

● **Teaching Assistant at University of Payam-Noor, Bojnourd**

2010-2011

Course title: Biochemistry • Explained concepts in biochemistry (Structural and Biosynthesis) • Graded term papers, final examinations, student tutorial participation

● **Teaching of some High-schools Courses**

2005-2011

Course title: High school Studies • Biology • Mathematics • Chemistry • English Language



Certificates

● **5th Symposium on Immunocell Therapy**

Institute: Pediatric Cell and Gene Therapy Research Center - Tehran University of Medical Sciences" and "Council for Development of Stem Cell Sciences & Technologies

February 2022

● **3th International Cancer Webinar: Bench to Bedside**

Institute: Royan Institute

February 2022

● **Genetic Counseling Course**

Institute: GenomeFan Company

July 2021

● **BioPython Course**

Institute: GenomeFan Company

June 2021

● **7th National & 1st International Webinar on Medical Genetics: Diagnostic & Research**

Institute: Kurdistan University of Medical Sciences

April 2021

● **Approaches to Bioinformatics Teaching**

Institute: CellMedEx Company

February 2021

NGS Plus Course

Institute: GenomeFan Company

January 2021

3rd Middle East and North Africa MetaSystems Workshop

Institute: MetaSystems Company

February 2018



Research

The role of saliva PCR assay in the diagnosis of COVID-19

Publisher: JIDC (The Journal of Infection in Developing Countries)

August 2021

Link : jidc.org/index.php/journal/article/view/35192515/2714

Abstract Introduction: The introduction of a self-collection sampling method with less discomfort would be of great benefit in reducing the risk of medical provider's contamination and patient's acceptance. The aim of the present study was to investigate saliva samples' diagnostic performance for the COVID-19 RT-PCR test compared to pharyngeal swabs. Methodology: From individuals referred to a medical center with presentations compatible with COVID-19 who were eligible for molecular diagnostic tests, 80 cases were selected. Nasopharyngeal and oropharyngeal swabs (placed into the same transport tube) along with selfcollected saliva sample were taken from each participant for COVID-19 RT-PCR assay. The results of pharyngeal swabs and saliva sample were compared. Results: Sixty-two (78%) infected cases were detected, of whom 31 (39%) cases tested positive for both pharyngeal swab and saliva samples. 24 (30%) and 7 (9%) cases tested positive only for pharyngeal or saliva samples, respectively. The overall percentage of agreement between pharyngeal swab and saliva sample was 61%, with a kappa value of 0.24 (p-value = 0.019, 95% CI: 0.04-0.44), showing a fair level of agreement. The diagnostic sensitivity of pharyngeal swabs was 88.71% (95% CI: 78.11-95.34), and the diagnostic sensitivity of saliva samples was 61.29% (95% CI: 48.07-73.40). Compared to pharyngeal swabs (oropharyngeal and nasopharyngeal swabs in the same collection tube), an important observation was that seven more positive cases were detected among saliva samples. Conclusions: The findings of the present study indicated that self-collected saliva samples cannot replace pharyngeal swabs. Still, saliva samples significantly increased the case detection rate and can be used along with pharyngeal swabs.

Comparison of Patient-collected and Lab Technician-collected

Nasopharyngeal and Oropharyngeal Swabs for Detection of COVID-19 by

RT-PCR

Publisher: Iranian Journal of Pathology

June 2020

Link : ijp.iranpath.org/article_43604.html

Abstract: Background & Objective: A simple approach to prevent close contact in healthcare settings during the COVID-19 outbreak is to train patients to collect their own nasopharyngeal and oropharyngeal swabs and deliver them to medical laboratories to have them processed. The aim of our study was to compare lab technician- with patientcollected oropharyngeal and nasopharyngeal samples for detection of the coronavirus disease 2019 (COVID 19) using rapid real-time polymerase chain reaction (rRT-PCR). **Methods:** Fifty adult patients with flu-like symptoms and radiologic findings compatible with atypical pneumonia who were admitted to the infectious diseases ward of Imam Khomeini Hospital Complex, Tehran, Iran, with a clinical diagnosis of COVID-19 from February 28 to April 27 of 2020 were randomly selected and entered in our study. Two sets of naso- and oropharyngeal swabs were collected, one set by a lab technician and the other by the patients, and the COVID-19 rRT-PCR test was performed. **Results:** Of 50 selected cases, in seven patients all collected naso- and oropharyngeal swabs tested positive, and in 22 patients all samples tested negative for COVID-19 in rRT-PCR. Discrepancies between rRT-PCR results of lab technician- and patientcollected swabs were observed in 12 nasopharyngeal and 13 oropharyngeal specimens. Positive lab technician-collected and negative patient-collected samples were observed in 10 and 5 nasopharyngeal and oropharyngeal specimens, respectively. Negative lab technician-collected and positive patient-collected samples were observed in two and seven nasopharyngeal and oropharyngeal specimens, respectively. The overall percentage of agreement among both nasopharyngeal and oropharyngeal swabs taken by a lab technician and patients was 76% with a kappa value of 0.49 ($P=0.001$). **Conclusion:** Based on our findings, lab technician-collected naso- and oropharyngeal swabs cannot be replaced by patient-collected ones with regard to COVID-19 rRT-PCR.



Personal interests

● **Molecular Medicine**

● **Bioinformatics**

● **Cell therapy**

● **Gene therapy**

● **Cancer Genetics**

● **Neurogenetics**