

## TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

**ID CODE:** 6119

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Dipartimento di Fisiopatologia Medico-Chirurgica e dei Trapianti - in - charge: "Prof. Prof. Fugazzola Laura

## [Khushboo]

**CURRICULUM VITAE** 

### PERSONAL INFORMATION

Surname	Sina
Name	Mohammad

### PRESENT OCCUPATION

Appointment	
Not Applicable	Not Applicable

## EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Bachelor of Cellular & Molecular Biology -Biotechnology,	Rabe Rashid University, Iran	2011
Specialization	Not Applicable	Not Applicable	Not Applicable
Master	Master of Science MSc in Medical Biotechnology,	Tabriz University of Medical Sciences,Iran	2015
PhD	student of Molecular Genetics, Biotechnologies and Experimental Medicine, University	University of Brescia, Brescia	29/11/2023



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		of Brescia, Brescia		
Degree of specialization	medical	Not Applicable	Not Applicable	Not Applicable
Degree of specialization	European	Not Applicable	Not Applicable	Not Applicable
Other		Not Applicable	Not Applicable	Not Applicable

# REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
Not Applicable	Not Applicable	Not Applicable

## FOREIGN LANGUAGES

Languages	level of knowledge
English	Proeficient

# TRAINING OR RESEARCH ACTIVITY

Moderate skill in R programming and Linux operating system
1) iPSC culture and EBV transfection
2) PBMCs isolation from peripheral blood
3) Flow cytometry
4) Sequencing Analysis
5) Variations filtering and interpretation using ANNOVAR, Samtools, Varaft, and IGV
6) Copy Number Variation Analysis (CNVs)
using HMZDelFinder, ExomeDepth, cnmops.panel, and CoNVaDING, GATKgCNV,
7) Mappability analysis
8) Cytogenetics and karyotyping
9) RNA bulk sequencing, RUV III, PRPS
10) Flow cytometry
11) NGS library preparation, first-hand
experience with PGM ion torrent chef
12) Fragment Analysis, including MSI

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- 13) Humara Assay
- 14) DNA extractions from tissue and blood,
- 15) DNA purification from gel
- 16) PCR, touchdown PCR, Touch-up PCR, Long-range PCR
- 17) RNA extractions, RT-PCR, and Real-time PCR
- 18) Soluble expression of recombinant protein
- 19) Protein purification (pull-down)
- 20) SDS-PAGE
- 21) Cell culture
- 22) Bacterial culture
- 23) Mouse model management
- 24) Western blotting
- 25)Writing a systematic review
- 27) MLPA

# PROJECT ACTIVITY

Year	Project
2020	I am a member of the Middle-East Network on Hereditary Colorectal Cancer (HCCN-ME) (https://www.hccn-me.com/)
2019	I have established lynchsyndrome.ir website to raise awareness among Iranian patients diagnosed with Lynch Syndrome
2019	I established a workshop on Genome-wide association study at Motamed cancer institute, Tehran, Iran
2019	I have established microsatellite instability testing at Motamed cancer institute, Tehran, Iran
2019	I have established KRAS and NRAS genetic testing at Motamed cancer institute, Tehran, Iran

## PATENTS

Patent		
Not Applicable		



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## CONGRESSES AND SEMINARS

Date	Title	Place
2022	ACMG Annual Clinical Genetics Meeting – American College Of Medical Genetics and Genomics.	Nashville, Tennessee, USA
2018	Conference speaking engagements "Current health care of families with Lynch syndrome in the Middle East and North African countries, conference of prevention colorectal cancer and the first Iranian hereditary colorectal cancer meeting	Mashhad, Iran
2019	Attended health research strategies in EU (Horizon 2020) and Iran AND training for applicants to horizon 2020 project	Imam Khomeini hospital, Tehran University of Medical, Tehran, Iran
2019	Attended 9th conferences on the new approaches of diagnosis and the treatment of colorectal cancer	Imam Khomeini hospital, Tehran University of Medical, Tehran, Iran

## PUBLICATIONS

Books (Not Applicable)

Sina M, Farajzadeh D, Dastmalchi S, 2015, Effects of Environmental Factors on Soluble Expression of a Humanized Anti-TNF- $\alpha$  scFv Antibody in Escherichia coli. Adv Pharm Bull, 5(4), 455-461. DOI: 10.15171/apb.2015.062

1) Sina, M., Ghorbanoghli, Z., Abedrabbo, A. et al. Identification and management of Lynch syndrome

in the Middle East and North African countries: outcome of a survey in 12 countries. Familial Cancer

(2020). https://doi.org/10.1007/s10689-020-00211-3

[title, place, publishing house, year ...]

Projects

 Sina, M., Ghorbanoghli, Z., Abedrabbo, A. et al Current health care of families with Lynch syndrome in the Middle East and North African countries, ready to submit

 Sina, M., Ghorbanoghli, Z, H. F. A Vasen, et al Identification and surveillance of Four Iranian Families with Lynch Syndrome and a family with *PMS1* pathogenic variants, ready to submit.





- 3) Sina, M. Giliani S, A de novo novel pathogenic variant in *CYBB* gene caused exon skipping in a female patient with Chronic granulomatous disease: a case report study. ready to submit
- **4) Sina, M.** Giliani S, et al Copy number variation analysis on exome sequencing data identified a 70 kb deletion in *MSH2* and *EPCAM* genes in two Iranian families. Ongoing
- 5) Julio, **Sina**, **M**. Giliani S, et al A de novo novel pathogenic variant in *MAGT1* gene caused exon skipping: a case report study. ongoing
- 6) **Sina M**., Eidi M., Ferarro R. et al Copy number variant calling in a cohort of primary immunodeficiency disease using panel sequencing in diagnostic clinic: ongoing

Congress proceedings (Not Applicable)

[title, structure, place, year]

[title, structure, place, year]

[title, structure, place, year]

### OTHER INFORMATION

Broad Research Areas: Medical genetics, DNA sequencing

**Title of Ph.D.Thesis**: "Identification and interpretation of pathogenic variants following Next Generation Sequencing (NGS) analysis in human Mendelian disorders".

**Dissertation topic at M.Sc. level:** "Effects of Environmental Factors on Soluble Expression of a Humanized Anti-TNF-α scFv Antibody in Escherichia coli".

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date:Sina, Brescia (01/01/2024)