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| **TO MAGNIFICO RETTORE OF UNIVERSITA’ DEGLI STUDI DI MILANO ID CODE \_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  |
| I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type A fellowship at **Dipartimento di \_\_\_**Dipartimento di Bioscienze**\_\_\_\_\_\_\_\_**Scientist- in – charge: **\_\_\_\_Prof.ssa Elena Cattaneo\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
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**[Khushboo]**

**CURRICULUM VITAE**

PERSONAL INFORMATION

|  |  |
| --- | --- |
| Surname | Sina |
| Name | Mohammad |

PRESENT OCCUPATION

|  |  |
| --- | --- |
| Appointment | PhD student |
| 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 |
| PhD | student of Molecular Genetics, Biotechnologies and Experimental Medicine, University of Brescia, Brescia | University of Brescia, Brescia | Thesis will be submitted on 25 st December, 2022 |
| Master  | Master of Science MSc in Medical Biotechnology,   | Tabriz University of Medical Sciences,Iran | 2015 |
| Degree of medical specialization | Not Applicable | Not Applicable | Not Applicable |
| Degree of European specialization | Not Applicable | Not Applicable | Not Applicable |
| Other | Not Applicable | Not Applicable | Not Applicable |

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

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| --- | --- | --- |
| Date of registration | Association | City |
| Not Applicable | Not Applicable | Not Applicable |

FOREIGN LANGUAGES

|  |  |
| --- | --- |
| Languages | level of knowledge |
| English | Proeficient |

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

|  |  |
| --- | --- |
| Year | Description of award |
| 2019 | Travel grant award for US $1500 by International society of Neurochemistry (ISN-ASN) to participate in international conference in neurochemistry held at Montreal, Canada during 4-8 August 2019. |
| 2019 | Full Conference Participation Grant (CPG) supporting travel, stay and registration awarded by Virology Education, The Netherlands to attend an International Conference on Tokyo HEV Clinical Forum (HEPCF), at Tokyo-Japan during October 28-29, 2019, Japan. |
| 2019 | Full conference participation support towards travel, stay and registration awarded by India International Science Festival, November 04-09, 2019 to attend the event at Kolkata, India. |
| 2022 | Travel grant award for US $1700 by International society of Neurochemistry (ISN-APSN 2022) to participate in international conference in neurochemistry held at Honolulu, Hawaii during 28 August to 01 September 2022. |

TRAINING OR RESEARCH ACTIVITY

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| 1. Moderate skill in R programming and Linux operating system
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| 1. Next generation sequencing variant calling using GATK, bcftools
2. Variations filtering and interpretation using ANNOVAR, Samtools, Varaft, and IGV
3. Copy Number Variation Analysis (CNVs) using HMZDelFinder, ExomeDepth, cnmops.panel, and CoNVaDING, gCNV, removing low mappibility regions
4. RNA sec
5. Mouse model management
6. Sanger Sequencing Analysis
7. NGS library prepration, first hand experience with PGM ion torrent chef
8. The bioinformatic of identification of Pseudogenes
9. Using RT-PCR for functional assay of the Mendilain disorders
10. Fragment Analysis, inclduing MSI analysis using CAT25
11. Humara Assay
12. The prediction of splicing mutations using Human Splicing Finder and ESE finder websites
13. Primer design
14. DNA extractions from tissue and blood, DNA purification from gel
15. PCR, touchdown PCR, Touch-up PCR, Long-range PCR
16. RNA extractions from tissue and blood
17. RT-PCR
18. Real-time PCR
19. Soluble expression of recombinant protein
20. Protein quantification utilizing ImageJ software.
21. Protein purification (pull-down).
22. SDS-PAGE and troubleshooting of the technique, including making gels, 24) analyzing the cause of any defect in SDS page gels, in other words, I have trained-eye for protein gels because I have run more than 100 SDS pages
23. Cell culture
24. Bacterial culture
25. Writing a systematic review
26. Western blotting
27. MLPA
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PROJECT ACTIVITY

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| 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 | 1. I have established KRAS and NRAS genetic testing at Motamed cancer institute, Tehran, Iran
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PATENTS

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| Patent |
| Not Applicable |
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CONGRESSES AND SEMINARS

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| --- | --- | --- |
| 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  |  |

PUBLICATIONS

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| Books (Not Applicable) |
|  Sina M, Farajzadeh D, Dastmalchi S, 2015, Effects of Environmental Factors on Soluble Expression of a Humanized Anti-TNF-α 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 …]  |

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| Articles in reviews |
| 1. **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
 |
| 1. **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.
 |
| 1. **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. ongoing
 |

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| Congress proceedings (Not Applicable) |
| [title, structure, place, year]  |
| [title, structure, place, year]  |
| [title, structure, place, year]  |

OTHER INFORMATION

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| **Broad Research Areas:** Medical genetics, DNA sequencing |
| **Title of Ph.D.Thesis**: “identification of human genetics mendian disordres”. |
| **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 (9 December, 2022)