



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE: - ID: 6582"

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 Scienze Biomediche, Chirurgiche ed Odontoiatriche _____

Scientist- in - charge: "Prof. Prof.ssa Basilico

[]

CURRICULUM VITAE

PERSONAL INFORMATION

| | |
|---------|-------|
| Surname | Shiri |
| Name | Sajad |

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 | Microbial Biotechnology, Tehran, Iran, Sep | Science and Research Branch of Azad University, | Feb 2020 |
| Master | Medical Biotechnology | Baqiyatallah University of Medical Sciences, | Sep 2017 |
| PhD | Not Applicable | Not Applicable | Not Applicable |



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

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

FOREIGN LANGUAGES

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

TRAINING OR RESEARCH ACTIVITY

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| <p>-Laboratory Techniques: PCR (Real-time PCR, RT PCR), gel electrophoresis, DNA sequencing, Western blotting, ELISA, cell culture, Flow cytometry, microscopy(Brightfield, Darkfield, Fluorescence, DIC, SEM,TEM). DNA Extraction, RNA Extraction, Spectrophotometry. Animal Lab(Animal Handling and Restraint, Anesthesia and Euthanasia, Gavage, Surgery,Cancer Research) , Mass Spectrometry, IHC (Immunohistochemistry)</p> <p>-Bioinformatics: Sequence analysis, protein structure prediction, genomics data interpretation, R programming • Python programming • GROMACS • Oligo • Primer3 • Meg Align • Edit seq • GeneDoc • Bio Edite • NCBI & Ensemble,</p> <p>- Genetic Engineering: Cloning, gene editing (CRISPR-Cas9), vector construction.</p> <p>- Bioprocessing: Fermentation, bioreactor operation, downstream processing.</p> <p>- Quality Control & Assurance: GMP, GLP, regulatory standards.</p> <p>- Data Analysis & Statistical Tools: SPSS, GraphPad Prism, MiniTab, Design of Experiment (DOE)</p> <p>- Bioethics • Biosafety</p> |
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PROJECT ACTIVITY

| Year | Project |
|------|--|
| 2022 | Activity of a Novel Antimicrobial Peptide with Nitric Oxide Induction against some Pathogenic Bacteria. |
| 2017 | An electrochemical sensor for the simultaneous determination of rifampicin and isoniazid using a C-dots@ CuFe 2 O 4 nanocomposite modified carbon paste electrode. |
| 2015 | Planarians: an in vivo model for regenerative medicine |
| 2017 | The effect of Glycyrrhiza glabra on osteoarthritis: suppression of TNF-a, IL-1b, Cox-2, iNOS gene expression and prostaglandin E2 and nitric oxide production in chondrocytes and monocyte/macrophages |
| | |

PATENTS

| Patent |
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| - Novel antimicrobial peptide with nitric oxide induction against some gastrointestinal pathogenic bacteria (Filed Dec 17, 2022) |
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CONGRESSES AND SEMINARS

| Date | Title | Place |
|------|--|-------|
| 2023 | 13th National and 5th International Biotechnology Congress of the Iranian Biotechnology Society - Presented article: The Intersection of CBRN, Biosecurity, and Biotechnology: Safeguarding the Future | Iran |
| 2022 | 9th Basic and Clinical Neuroscience Congress Covid-19; What, When, Where, and How in a Geography-Anthropology Cognitive Neurobiological Model | |
| 2015 | Certificate of Participation In First Conference of Bioremediation, Sharif University of Technology - Presented article: The use of biosorbents in absorbing, extracting and extracting uranium | Iran |
| 2008 | Certificate of Participation In 3rd International Student Conference of | Iran |



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|-----------------------------------|--|------|
| | Biotechnology, University of Tehran | |
| October. 29-31 20 December. | Certificate of Participation In 2nd Basic and Clinical Neuroscience congress, Iran University of Medical Sciences | Iran |
| 23-25 201514 | Certificate of Participation In 3rd Basic and Clinical Neuroscience congress, Iran University of Medical Sciences | |
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PUBLICATIONS

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| Books (Not Applicable) |
| Translation of the book “Glenn, J. C., & Gordon, T. J. (Eds.). (2009). Futures research methodology: version 3.0. Editorial desconocida.” Et.all |
| Book in Persian;” Ali nasiri, Sajad shiri” (2021), A practical guide to dealing with Covid-19 for front-line personnel |
| Shiri, Sajad. “ Multipurpose Hall for CBRNe Incidents”. Romanian Journal of Military Medicine · Jul 19, 2023 |
| Shiri, Sajad, Faezeh Hasani, and Mahdi Fasihi-Ramandi. "Activity of a Novel Antimicrobial Peptide with Nitric Oxide Induction against some Pathogenic Bacteria." Journal of Applied Biotechnology Reports 9.1 (2022): 531-538. |
| Shiri, Sajad, (2023). Multipurpose Hall for CBRNe Incidents. Romanian Journal of Military Medicine. 126. 474-485. 10.55453/rjmm.2023.126.4.19. |
| Shiri, Sajad, et al. "An electrochemical sensor for the simultaneous determination of rifampicin and isoniazid using a C-dots@ CuFe 2 O 4 nanocomposite modified carbon paste electrode." New Journal of Chemistry 41.24 (2017): 15564-15573. |
| Karami, Ali, Hamid Tebyanian, Vahabodin Goodarzi, and Sajad Shiri. "Planarians: an in vivo model for regenerative medicine." International journal of stem cells 8, no. 2 (2015): 128. |
| Hatef Boshra, Sajad Shiri, and Hedayat Sahraei. "Why human react differently to the same sensory experiences: an emotion-cognition interaction." Neurosci J Shefaye Khatam 4 (2015): 63-72. |
| Hatef Boshra, Habib Yaribeygi, Gholam Hossein Meftahi, and Sajad Shiri. "Individual and Community Values Conflict with the Approach of Cognitive Science and Reduction Strategies to Increase Mental Health; an Opinion Study." Health Research Journal 1, no. 2 (2016): 123-131. |
| Loni, Fatemeh, Hossein Maghsodi, and Sajad Shiri. "The effect of Glycyrhiza glabra on osteoarthritis: suppression of TNF-a, IL-1b, Cox-2, iNOS gene expression and prostaglandin E2 and nitric oxide production in chondrocytes and monocyte/macrophages." Healt Biotech Biopharma 1.2 (2017): 70-82. |

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| Projects |
| 1) AntiMicrobial Peptides |



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| 2) Biosensors |
| 3) |

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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: |
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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:sajad shiri (03/05/2024)