

Curriculum Vitae

Seyed Mobin Mohammadi

Phone: +1 (778) 834-7038

Email: mmohammadi@prostatecentre.com

Education

- **MSc: Medical Immunology** (2013 – 2016)
Kurdistan University of Medical Sciences (MUK), Sanandaj, Iran
GPA: 17.43/20
 - **Dissertation:** *Effect of gestational age on migration ability of the human umbilical cord vein mesenchymal stem cells*
Under the supervision of Dr. Mohammad Reza Rahmani
 - **BSc: Medical Laboratory Sciences** (2009 – 2012)
Kurdistan University of Medical Sciences (MUK), Sanandaj, Iran
GPA: 16.84/20
-

Personal Statement

Since joining Dr. Amina Zoubeidi's lab at the University of British Columbia for my PhD in January 2024, I have been deeply committed to unraveling the complexities of cancer. My current focus is on understanding the mechanisms of treatment resistance in prostate cancer and developing innovative therapeutic strategies to improve patient outcomes.

I hold an MSc in Medical Immunology from Kurdistan University of Medical Sciences, where I also served as a university lecturer and faculty member for nearly seven years. During this time, I taught a wide range of immunology courses to over 2000 students and mentored numerous undergraduate and graduate students in their research projects.

My research journey has been diverse and impactful. As a member and later secretary of the Cancer and Immunology Research Center, I contributed to several significant studies, leading to publications in esteemed journals. My work has ranged from investigating the immunomodulatory properties of mesenchymal stromal cells to exploring the combined effects of various compounds on breast cancer cells. These experiences have honed my skills in cellular and molecular techniques and underscored the importance of interdisciplinary approaches in biomedical research. My efforts have resulted in eight publications in peer-reviewed international journals, and I have an h-index of 4.

My PhD project aims to elucidate the role of the MET receptor in prostate cancer, particularly its upregulation following androgen receptor pathway inhibitor (ARPI) therapy and its potential as a target for antibody-drug conjugates (ADCs). This research is critical, as resistance to androgen deprivation therapy remains a major challenge in prostate cancer treatment, often leading to aggressive, treatment-resistant forms such as treatment-induced neuroendocrine prostate cancer (tNEPC).

As an early career PhD student, I am driven by ambition to unravel the complexities of cancer biology and pioneer innovative therapeutic strategies. I believe that my academic background, extensive teaching experience, and focused research in cancer and immunology position me well to contribute significantly to prostate cancer research. I look forward to continuing this journey and contributing to the scientific community's efforts to combat cancer.

Work Experiences

- **University Lecturer and Instructor** (November 2016 – June 2023)
Kurdistan University of Medical Sciences (MUK), Sanandaj, Iran
 - Faculty Member at Immunology Department, School of medicine
 - Teaching both theoretical and practical undergraduate modules (**Cellular and Molecular Immunology, Medical Immunology, Serology**) to students from various disciplines including medical, nursing, dentistry, midwifery and medical laboratory sciences.
 - Assisted with the Master's thesis of 12 Immunology graduate students
 - Supervised several undergraduate students' final projects
 - Coached undergraduate students during their traineeship in different medical laboratory wards.
- **Member of the Research Center**
(Cancer and Immunology Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Sanandaj, Iran) (May 2017 – June 2023)

Curriculum Vitae

▪ Secretary of the Research Council

(Cancer and Immunology Research Center, Research Institute for Health Development, Kurdistan University of Medical Sciences, Sanandaj, Iran) (May 2017 –2021)

Publications

Published Articles:

1. **Mohammadi M**, Mohammadi M, Rezaee MA, Ghadimi T, Abolhasani M, Rahmani MR. [Effect of gestational age on migration ability of the human umbilical cord vein mesenchymal stem cells](#). **Advances in medical sciences**. 2018 Mar 1;63(1):119-26.
2. Abolhasani M, Rezaee MA, Mohammadi M, Ghadimi T, **Mohammadi M**, Rahmani MR. [Immunomodulatory properties of umbilical cord vein mesenchymal stromal cells influenced by gestational age and in vitro expansion](#). **Immunology Letters**. 2018 Feb 1;194:62-8.
3. Aliakbari S, **Mohammadi M**, Rezaee MA, Amini AA, Fakhari S, Rahmani MR. [Impaired immunomodulatory ability of type 2 diabetic adipose-derived mesenchymal stem cells in regulation of inflammatory condition in mixed leukocyte reaction](#). **EXCLI journal**. 2019;18:852.
4. Ahmadi M, **Mohammadi M**, Ali-Hassanzadeh M, Zare M, Ghareisi-Fard B. [MDSCs in pregnancy: Critical players for a balanced immune system at the feto-maternal interface](#). **Cellular Immunology**. 2019 Dec 1;346:103990.
5. Heidari N, **Mohammadi M**, Rezaee MA, Amini AA, Fakhari S, Rahmani MR. [Up-regulation of CD200/CD200R1 Immunomodulatory axis of allogenic peripheral blood mononuclear cells in a co-culture with adipose-derived mesenchymal stem cells](#). **Iranian Journal of Allergy, Asthma and Immunology**. 2020 Oct 18;19(5):484-96.
6. Salimiyan S, **Mohammadi M**, Aliakbari S, Kazemi R, Amini AA, Rahmani MR. [Hydrocortisone Long-term Treatment Effect on Immunomodulatory Properties of Human Adipose-Derived Mesenchymal Stromal/Stem Cells](#). **Journal of Interferon & Cytokine Research**. 2022 Feb 1;42(2):72-81.
7. Malakouti P, **Mohammadi M**, Boshagh MA, Amini A, Rezaee MA, Rahmani MR. [Combined effects of pioglitazone and doxorubicin on migration and invasion of MDA-MB-231 breast cancer cells](#). **Journal of the Egyptian National Cancer Institute**. 2022 Dec;34(1):1-0.
8. Kazemi R, **Mohammadi M**, Salimiyan S, Aliakbari S, Ahmadi M, Rahmani MR. [Long-Term Effects of Low-Dose Naltrexone on Immunomodulatory Properties of Human Adipose-Derived Mesenchymal Stem Cells](#). **Iranian Journal of Immunology**. 2023 Jun 1;20(2):219-31.

Manuscripts In Preparation:

1. Jalili HR, **Mohammadi M**, Moazzendizaji S, Fakhari S, Rahmani MR. [Thalidomide pretreatment reduces drug resistance, wound healing and secretion of inflammatory cytokines in the doxorubicin-treated MDA-MB-231 breast cancer cell line](#).
 2. Ghaderi P, **Mohammadi M**, Jalili HR, Rahmani MR. [Potentiation of growth suppression and modulation of multidrug resistance by Gamma and Beta Interferons in MDA-MB-231 breast cancer cell line](#).
 3. Alvandi R, **Mohammadi M**, Salimiyan S, Fakhari S, Rahmani MR. [Effect of doxycycline, azithromycin and vitamin C co-treatment on senescence related processes of human adipose-derived mesenchymal stem cells](#).
-

Honors and Awards

- Ranked within the top 0.5% among approximately 460,000 participants in the National Entrance Examination for Iranian Universities, Iran.
- Ranked within the top 0.5% among approximately 50,000 participants in the National Entrance Examination for Master's programs in Iranian Universities, Iran.
- International Tuition Award: 2,133 CAD
- President's Academic Excellence Initiative PhD Award: 960 CAD

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- Faculty of Medicine Graduate Award: 2,500 CAD
-

Teaching and Administrative Skills

Educational Techniques

- Designed and implemented effective teaching strategies for complex scientific concepts.
- Utilized diverse teaching aids and methods to enhance student comprehension.
- Conducted thorough assessments and evaluations of student performance and progress.

Instruction and Curriculum Development

- Delivered comprehensive university-level lectures and practical sessions.
- Developed and revised curricula for undergraduate courses.
- Specialized in teaching Cellular and Molecular Immunology, Medical Immunology, and Serology.

Communication and Interpersonal Skills

- Communicated effectively with students to clarify concepts and offer support.
- Provided constructive feedback, fostering a positive and productive learning environment.
- Collaborated with colleagues to enhance and develop the academic program.

Technical Skills in Education

- Proficient in conducting and supervising practical laboratory sessions.
- Experienced with educational software and tools for teaching and student assessment.
- Skilled in preparing and delivering engaging lectures and presentations.

Academic Administration

- **Scheduling and Coordination:** Developed and managed schedules for student presentations, laboratory sessions, lectures, and projects.
 - **Communication and Correspondence:** Maintained clear and consistent communication with students, faculty, and administrative staff regarding academic requirements and schedules.
 - **Event Management:** Organized and facilitated seminars, presentations, and academic events, ensuring smooth logistics and successful execution.
 - **Report Generation and Feedback:** Compiled reports on seminar attendance and participant feedback; provided insights for continuous improvement of academic events.
 - **Administrative Oversight:** Oversaw various university administrative responsibilities; coordinated and organized research activities within the research center.
 - **Leadership and Collaboration:** Worked collaboratively with faculty, researchers, and staff to drive academic initiatives; mentored and guided students and junior faculty, fostering a collaborative and supportive environment.
 - **Adaptability and Flexibility:** Adapted to evolving academic environments and requirements; effectively manage multiple responsibilities and deadlines in a dynamic setting.
-

Technical & Research Skills

Cellular & Molecular Techniques

- **Cell Culture**
 - Proficient in isolating and culturing primary cells, including mesenchymal stem cells from human tissues like the umbilical cord and fat tissue.
 - Experienced with numerous secondary cell lines

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- **Cell Culture Assays**

- Skilled in conducting various cell culture assays such as cytotoxicity, apoptosis, cell cycle analysis, in vitro cell migration and invasion, wound healing assay, colony formation assay and mixed leukocyte reaction.

- **Immunoassays**

- Proficient in flow cytometry (cell surface and intracellular marker expression and intensity, uptake and efflux assay), Western Blot, ELISA, and Immunohistochemistry (IHC).

- **Molecular Techniques and Assays**

- Experienced in designing primers and probes for real-time PCR.
- Proficient in DNA/RNA extraction from tissue, blood, and serum, DNA gel analysis and quantification, Real-Time PCR and subsequent analysis.
- Skilled in CRISPR gene editing for targeted genome modifications.

Laboratory Animal Skills

- Proficient in providing basic care for laboratory animals, especially mice.
- Skilled in handling, restraining, and collecting biological samples from laboratory animals.
- Competent in administering fluids and medications via various parenteral administration sites.

Scientific Writing

- Proficient in scientific writing and illustration design.
- Skilled in using GraphPad PRISM and SPSS for statistical analyses.
- Competent in performing large-scale searches in medical databases.
- Skilled in using reference management software.

Attendance in Congresses

- The 1st National Congress of Inflammation, Tehran, Iran. January 2019
 - Delivered an oral presentation.
- The 13th International Congress of Immunology and Allergy of Iran, Tehran, Iran. April 2016
 - Presented a poster.

Language Skills

- English (fluent in speaking, writing, reading, and listening)
 - TOEFL iBT ®: 107 (Overall Score)
 - Listening: 29, Writing: 26, Speaking: 22, Reading: 30
 - Test date: Feb 14, 2023
- Persian (native)
- Kurdish (mother tongue)

Volunteer Experience

- Lab Technician (COVID-19 Detection Genetic Lab), June 2020 – July 2020
 - Tohid Hospital, Sanandaj, Iran

Defining the Role of Met in Prostate Cancer and Exploring Its Targeting Using Antibody-Drug Conjugate

Background: Prostate cancer (PCa) is one of the leading causes of cancer-related deaths in men. While androgen deprivation therapy (ADT) and androgen receptor pathway inhibitors (ARPIs) are effective initial treatments, resistance inevitably develops, leading to castration-resistant prostate cancer (CRPC). Among these, a subset of patients progresses to treatment-induced neuroendocrine prostate cancer (tNEPC), a highly aggressive and lethal form¹. Previous studies have identified that the MET receptor tyrosine kinase is highly expressed in various tumors, including lung, breast, and prostate cancer². Our preliminary studies in prostate cancer patient datasets and cell lines indicate that MET overexpression correlates with the emergence of therapy-resistant and aggressive phenotypes. Attempts to target MET using specific inhibitors have been made, but these inhibitors lack specificity to MET, and recent clinical trials have failed to show promising results for their combination with ARPIs in prostate cancer³. This study aims to better understand the role of the MET receptor in the development of treatment resistance in prostate cancer and to assess the potential of targeting MET using novel Antibody-Drug Conjugates (ADC) based on its higher cell surface expression in treatment-resistant prostate cancer cells.

Hypothesis: The MET receptor is highly expressed on the cell surface of treatment-resistant prostate cancer cells, making it a promising target for ADCs armed with chemotherapy agents. This strategy holds significant potential for effectively targeting and eliminating treatment-resistant cancer cells in prostate cancer patients.

Aim 1: Investigate the molecular mechanism by which ARPIs induces upregulation and activation of Met and explore if Met is an androgen receptor (AR) dependent gene in as well if the expression of Met confers resistance to ARPI.

Aim 2: Develop and characterize MET-targeting Variable New Antigen Receptors (VNARs).

Aim 3: Assess the therapeutic potential of MET VNAR-drug conjugates.

Methodology: To investigate the molecular mechanism by which ARPIs affect MET and to explore if MET is an AR-dependent gene, we will utilize a combination of gene expression analysis, chromatin immunoprecipitation (ChIP) assays, and ARPI-resistant cell line models⁴. Additionally, we will assess the impact of MET in isogenic cell lines, including MET-overexpressing CRPC and MET-knockout NEPC cell lines, through gene expression profiling, RNA sequencing (RNA-seq), pathway enrichment analyses, proliferation assays, and kinase arrays. We will employ VNARs, derived from shark immune systems, to develop novel MET receptor ADCs. MET VNARs will be tested for their ability to detect MET under various conditions using WB and IHC in MET knockout and overexpressing isogenic cell lines. Next, we will use site-specific techniques to attach chemotherapeutic drugs to MET VNARs and test their efficacy in selectively eradicating MET-expressing prostate cancer cells.

Expected Outcomes: This project will provide insight on the molecular mechanism underlying upregulation and activation of Met oncogene post ARPI therapy and its involvement in therapy resistance. By developing MET-targeting VNARs and testing their efficacy as ADCs, we expect to demonstrate their potential to selectively eliminate MET-expressing prostate cancer cells. This could lead to new therapeutic strategies, improving outcomes for patients with advanced, treatment-resistant prostate cancer.

References:

¹Stephen et al. 2023, "Improved Outcomes with Enzalutamide in Biochemically Recurrent Prostate Cancer"

²Fu et al. 2021, "HGF/c-MET pathway in cancer: from molecular characterization to clinical evidence"

³Agarwal et al. 2024, "CONTACT-02: Phase 3 study of cabozantinib (C) plus atezolizumab (A) vs second novel hormonal therapy (NHT) in patients (pts) with metastatic castration-resistant prostate cancer (mCRPC)"

⁴Bishop et al. 2017, "The Master Neural Transcription Factor BRN2 Is an Androgen Receptor-Suppressed Driver of Neuroendocrine Differentiation in Prostate Cancer"

Surname:
MOHAMMADI

Given Names:
SEYED MOBIN

Student Number:
43516970

Date:
June 10, 2024

UBC Credentials												
None to date												
Transfer Credits												
None to date												
Winter Session 2023 - 2024												
Doctor of Philosophy (UBC Vancouver) - In Interdisciplinary Oncology												
Term	Course	Credit Value	Course Title			% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
2	ONCO 510	(3.0)	Seminars in Oncology						T			
2	ONCO 649	(0.0)	Doctoral Dissertation						T			
Sessional Average for PHD:												
Credits Attempted		=	Passed	Failed	Withdrawn	Audited	Incomplete					
3.0		=	0.0	0.0	0.0	0.0	3.0					
UBC Academic Awards												
Faculty of Medicine Graduate Award												
Summer Session 2024												
Doctor of Philosophy (UBC Vancouver) - In Interdisciplinary Oncology												
Term	Course	Credit Value	Course Title			% Grade	Letter Grade	Credit Rec'd	Stdg	Withdraw Date	Complete Date	Class Size Avg
1-2	ONCO 649	(0.0)	Doctoral Dissertation						CIP			
Sessional Average for PHD:												
Credits Attempted		=	Passed	Failed	Withdrawn	Audited	Incomplete					
0.0		=	0.0	0.0	0.0	0.0	0.0					

***** End of Record *****



شماره ۷۴۳۷۵۳

ردیف دفتر ثبت ۱۱۶۳



جمهوری اسلامی ایران

توقه قضائیه - اداره مترجمین رسمی

سامان زلیخایی

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Saman Zoleikhaei



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The Koran: "God will raise up in rank those of you who believe and have been given knowledge."

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Hologram of the University Affixed

No.: 14/76033

Date: 06-02-2023

BACHELOR'S DEGREE

Whereas

Mr. SEYED MOBIN MOHAMMADI

Son of **Seyed Mohammad Mehdi**, holder of national ID No.: **3810070041**, issued in **Marivan**, born in **1990**, successfully completed his studies in **Bachelor of Science** program, **Daytime** course, in the field of **Laboratory Sciences** on **23-06-2012**, this **degree** is hereby awarded to him.

Wish him success in combining knowledge and practice, pleasing God and endeavoring to serve people.

Signed: Dr. Mokhtar Yaghoobi, Dean of Faculty of Paramedics

Signed & Embossed Sealed: Dr. Fereydoon Abdolmaleki, Chancellor of University

Overleaf:

Sealed: General Department of Academic Affairs, Kurdistan University of Medical Sciences

Signed & Sealed: Academic Affairs-Graduates Unit, Kurdistan University of Medical Sciences [20-02-2023]

Signed & Sealed: Academic Affairs, Kurdistan University of Medical Sciences [20-02-2023]

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Embossed Sealed: Department of Academic Affairs, Ministry of Health and Medical Education

Signed & Sealed: It is permissible to translate this degree and have it certified by the Ministry of Foreign Affairs.

I hereby certify that the above is a true translation of the original to the best of my knowledge.

SANANDAJ-IRAN

March 01, 2023





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Kurdistan University of Medical Sciences
General Department of Academic Affairs

Date of Issue: 06-02-2023

Holder's Photo Scanned

ACADEMIC TRANSCRIPT

This is to certify that Mr. **SEYED MOBIN MOHAMMADI**, son of **SEYED MOHAMMAD MEHDI**, student No.: **87125024**, birth certificate No.: **3810070041**, national ID No.: **3810070041**, issued in **Marivan**, born on **09-02-1990**, graduated from this university in the field of **Laboratory Sciences**, **Daytime** course, on **23-06-2012** and was awarded **Bachelor's Degree** (continuous) in the mentioned field. Status: **Graduated**

Code	Subject	Theoretical	Practical	Mark (In Letters)	Score
25100	General Physics	2	0	12.25	24.5
25101	General Physics Laboratory	0	1	18.50	18.5
25102	General Chemistry	2	0	12	24
25103	General Chemistry Laboratory	0	1	13	13
25104	Molecular and Cellular Biology	2	1	15.25	45.75
25105	Anatomy (Theoretical)	2	0	17	34
25106	Anatomy (Practical)	0	1	17	17
25107	General Biochemistry	3	0	18.50	55.5
25108	General Biochemistry Laboratory	0	1	19	19
25109	Physiology (Theoretical)	2	0	20	40
25110	Physiology (Practical)	0	1	18.50	18.5
25111	Biophysics	2	0	15.50	31
25112	Histology (Theoretical)	1	0	18.20	18.2
25113	Histology Laboratory	0	1	17.75	17.75
25114	Public Health	2	0	16	32
25115	Computer	2	0	20	40
25116	Biostatistics and Research Method	2	0	18.50	37
25117	Medical Biochemistry I	3	0	18.50	55.5
25118	Medical Biochemistry I Laboratory	0	1	17	17
25119	General Microbiology	2	0	16.50	33
25120	General Microbiology Laboratory	0	1	18.50	18.5
25121	Parasitology I (Worms)	2	0	13.20	26.4
25122	Parasitology I (Worms) Laboratory	0	1	15.60	15.6
25123	General Pathology	2	0	19.15	38.3
25124	General Pathology Laboratory	0	1	19.50	19.5
25125	English Texts and Medical Terminology	2	0	14.50	29
25126	Medical Genetics	1	0	16.50	16.5
25127	Medical Immunology	3	0	18	54
25128	Medical Immunology Laboratory	0	2	18.75	37.5
25129	Medical Virology	2	0	18.50	37
25130	Medical Virology Laboratory	0	1	20	20
25131	Parasitology II (Protozoa and Insect)	2	0	11.67	23.34
25132	Parasitology II (Protozoa and Insect) Laboratory	0	1	15.56	15.56
25133	Hematology I	3	0	18	54
25134	Hematology I Laboratory	0	2	18.25	36.5
25135	Medical Biochemistry II	2	0	18.50	37
25136	Medical Biochemistry II Laboratory	0	1	17.50	17.5
25137	Pharmacology	2	0	18	36
25138	Protection and Safety Principles in Laboratory	1	0	18.13	18.13
25139	Hematology II	2	0	16.50	33
25140	Hematology II Laboratory	0	1	17	17
25141	Laboratory Equipment Maintenance and Technical Principles	1	0	17.50	17.5





25142	Medical Mycology	2	0	16.75	33.5
25143	Medical Mycology Laboratory	0	1	15.25	15.25
25144	Medical Bacteriology	3	0	12.75	38.25
25145	Medical Bacteriology Laboratory	0	1	17	17
25146	General Psychology	2	0	17.50	35
25147	Toxicology	1	0	13.50	13.5
25148	Toxicology Laboratory	0	1	13	13
25149	Immunohematology	2	0	16	32
25150	Immunohematology Laboratory	0	1	17.25	17.25
25151	Laboratory Rules and Management Principles	1	0	17.50	17.5
25152	Hormonology	1	0	13.50	13.5
25153	Hormonology Laboratory	0	1	15.50	15.5
25154	Quality Control Methods in Clinical Laboratory	1	0	17	17
25155	Introduction to Internal Diseases	2	0	16.50	33
25156	Seminar	1	0	18	18
25157	Preceptorship I	0	8	18	144
25158	Preceptorship II	0	8	14.63	117.04
99108	Physical Education I	0.25	0.75	15.50	15.5
99111	Islamic Ethics and Training I	2	0	20	40
99115	Physical Education II	0	1	13.25	13.25
99116	History of Islam	2	0	16	32
99118	Islamic Revolution and Its Origins	2	0	17	34
99122	Persian	3	0	18.89	56.67
99123	Foreign Language	3	0	14.50	43.5
99129	Population and Family Knowledge	2	0	16	32
99133	Islamic Thought I	2	0	19	38
99134	Islamic Thought II	2	0	20	40
99135	Islamic Texts and Thematic Interpretation of Koran	2	0	19	38
99139	Civilization of Iranian and Islamic Culture	2	0	20	40

Description of Credits	Total Credits	Total Score	G.P.A
Passed (1)	132	2222.24	16.84

Marks

A: Very Good/ 4 (17-20), B: Good/ 3 (14-16.99), C: Fair/ 2 (12-13.99), D: Poor/ 1 (10-11.99), E: Failed/ 0 (0-9.99)

Each credit of a theoretical, practical and laboratory, preceptorship and internship course consists of 17, 34, 51 and 51 hours respectively.

Signed & Sealed: Academic Affairs-Graduates Unit, Kurdistan University of Medical Sciences [06-02-2023]

Signed & Sealed: General Department of Academic Affairs, Kurdistan University of Medical Sciences

Embossed Sealed: Directorate of Academic Affairs and Postgraduate Education, Kurdistan University of Medical Sciences

* This transcript bears no value without seal and signature.

Overleaf:

Signed & Sealed: It is permissible to translate this degree and have it certified by the Ministry of Foreign Affairs.

I hereby certify that the above is a true translation of the original to the best of my knowledge.

SANANDAJ-IRAN

March 01, 2023





شماره: ۷۴۳۷۵۶

ردیف دفتر ثبت: ۱۱۶۴



جمهوری اسلامی ایران

مؤسسه قضائیه - اداره مترجمین رسمی

سامان زلیخایی

Official English Translator to the Judiciary

License No. 1163

Saman Zoleikhaei



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The Koran: "God will raise up in rank those of you who believe and have been given knowledge."

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Ministry of Health and Medical Education
Kurdistan University of Medical Sciences

Holder's Photo Affixed & Sealed
Hologram of the University Affixed

No.: 14/76035

Date: 06-02-2023

MASTER'S DEGREE

Whereas

Mr. SEYED MOBIN MOHAMMADI

Son of Seyed Mohammad Mehdi, holder of national ID No.: 3810070041, issued in Marivan, born in 1990, successfully completed his studies in Master of Science program, Daytime course, in the field of Medical Immunology on 29-08-2016, this degree is hereby awarded to him.

Wish him success in combining knowledge and practice, pleasing God and endeavoring to serve people.

Signed: Dr. Bahram Nikkhoo, Dean of Faculty of Medicine

Signed & Embossed Sealed: Dr. Fereydoon Abdolmaleki, Chancellor of University

Overleaf:

Sealed: General Department of Academic Affairs, Kurdistan University of Medical Sciences

Signed & Sealed: Academic Affairs-Graduates Unit, Kurdistan University of Medical Sciences [20-02-2023]

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March 01, 2023





[Certified Translation from Persian]

Emblem of Kurdistan University of Medical Sciences
Kurdistan University of Medical Sciences
General Department of Academic Affairs

Date of Issue: 06-02-2023

ACADEMIC TRANSCRIPT

This is to certify that Mr. **SEYED MOBIN MOHAMMADI**, son of **SEYED MOHAMMAD MEHDI**, student No.: **92175004**, birth certificate No.: **3810070041**, national ID No.: **3810070041**, issued in **Marivan**, born on **09-02-1990**, graduated from this university in the field of **Medical Immunology**, **Daytime** course, on **29-08-2016** and was awarded **Master's Degree** (discrete) in the mentioned field. Status: **Graduated**

Code	Subject	Theoretical	Practical	Mark (In Letters)	Score
75100	Biochemistry	2	0	17	34
75101	Molecular and Cellular Biochemistry	2	0	17.50	35
75102	Computer	0	1	17	17
75103	Pathology	2	0	14.50	29
75104	Molecular Culture	1	1	19	38
75105	Immunology I	2	0	15.25	30.5
75106	Laboratory Animals and Keeping Them	0	1	18	18
75107	Immunohematology and Blood Bank	1	1	17	34
75108	Laboratory Methods	1	2	17	51
75109	Allergy and Immunopathology	2	0	17	34
75110	Immunology II	2	0	17	34
75111	Immunochemistry	1	0	17	17
75112	Internship	0	1	17.50	17.5
75113	Research Method	1	1	17.25	34.5
75114	Infectious Diseases Immunology	0	1	16	16
75115	Seminar	0	1	18.50	18.5
75116	Thesis	0	7	Unreported	-
75116	Thesis	0	7	Unreported	-
75116	Thesis	0	7	19.25	134.75

Description of Credits	Total Credits	Total Score	G.P.A
Passed (1)	34	592.75	17.43

Marks

A: Very Good/ 4 (17-20), B: Good/ 3 (14-16.99), C: Fair/ 2 (12-13.99), D: Poor/ 1 (10-11.99), E: Failed/ 0 (0-9.99)

Each credit of a theoretical, practical and laboratory, preceptorship and internship course consists of 17, 34, 51 and 51 hours respectively.

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Signed & Sealed: General Department of Academic Affairs, Kurdistan University of Medical Sciences

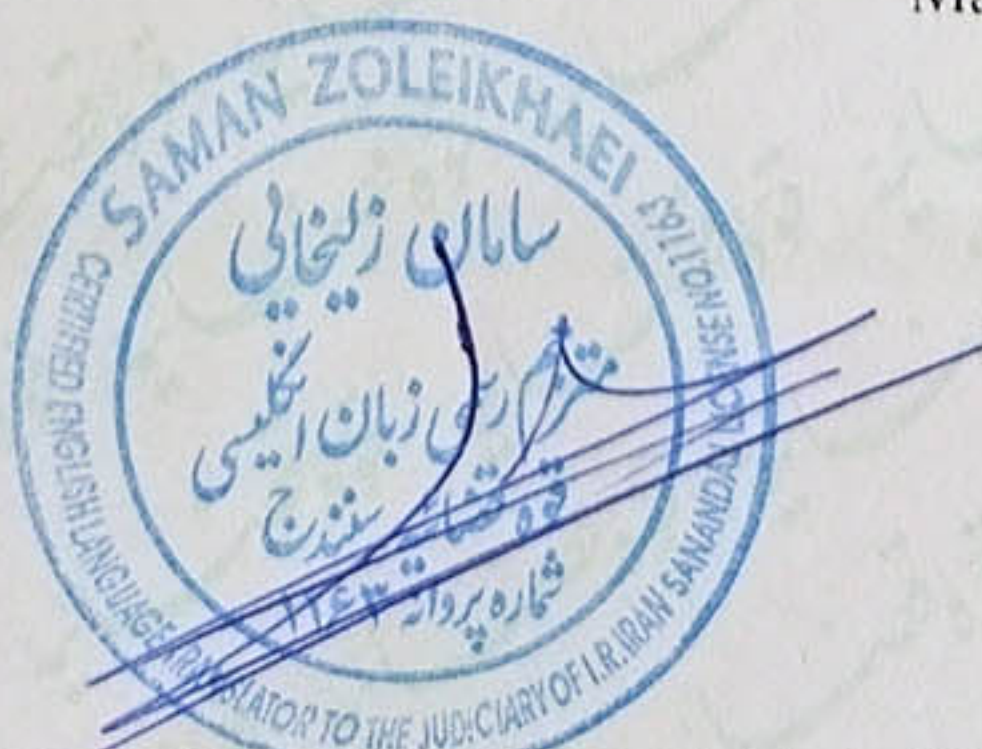
Embossed Sealed: Directorate of Academic Affairs and Postgraduate Education, Kurdistan University of Medical Sciences

* This transcript bears no value without seal and signature.

Overleaf:

Signed & Sealed: It is permissible to translate this degree and have it certified by the Ministry of Foreign Affairs.

I hereby certify that the above is a true translation of the original to the best of my knowledge.
SANANDAJ-IRAN
March 01, 2023



Dear Admissions Committee,

I am writing to express my strongest endorsement of Seyed Mobin Mohammadi for the Ph.D. position in the interdisciplinary oncology program at UBC. As an Associate Professor and the head of the Immunology Department at the Faculty of Medicine of Kurdistan University of Medical Sciences, I have had the pleasure of knowing Mobin since he was my undergraduate student. I was impressed by his questioning and idea generation during that time, as well as his interest and commitment to science. During his Master's, he continued his studies under my supervision. Later, he joined our department as an instructor and researcher, and I had the pleasure of working closely with him on multiple research projects, where I can attest to his exceptional scientific abilities.

Mobin was one of the most impressive students I have had the privilege of teaching, and his dedication to science and research is remarkable. His passion for learning and keen intellect have been evident throughout his academic career. During his time in my lab, Mobin consistently demonstrated his outstanding ability to generate novel ideas and question scientific assumptions. Moreover, his strong communication skills allowed him to work effectively with other team members in our research projects.

After finishing his Master's degree, I was pleased to help him start working as a lecturer and researcher in the Immunology Department, where he has since been helping to design and conduct original research projects, assisting Master's theses and supervising undergraduate projects, and has been a part of all of my research projects. During these collaborations, we have studied human mesenchymal stem cells' immunomodulatory properties in several research projects and also the effect of combinational therapies on drug resistance and epithelial-mesenchymal transition (EMT) processes of breast cancer cells in our recent projects. Our extensive associations have resulted in several publications in high-impact journals, which are a testament to Mobin's scientific abilities.

Along with his communication and management abilities, seeing how expertly Mobin designs, performs, troubleshoots, and analyzes various laboratory tests is impressive. I have received great feedback from various graduate and undergraduate students about his assistance and teaching.

Mobin's personality, knowledge, abilities, and work ethic are truly outstanding. Therefore, I highly recommend him for the Ph.D. program in the interdisciplinary oncology field. He is an exceptional candidate who will significantly contribute to the program, and I am confident that he will excel in his future academic pursuits.

Sincerely,

Dr. Mohammad Reza Rahmani

June 4th, 2024

Inter-disciplinary oncology graduate program

RE: Letter of recommendation for Seyed Mobin Mohammadi

Dear Four-Year Doctoral Fellowship (4YF) Selection Committee,

It is with great pleasure that I write this letter in support of Seyed Mobin Mohammadi's application for the Four-Year Doctoral Fellowship (4YF). Mobin is a truly outstanding graduate student with a bright future ahead.

Mobin's academic background and professional experience are impressive. He holds a Master's degree in Immunology from Kurdistan University of Medical Sciences, Iran, where he graduated with high honors. Before joining UBC, he served as a lecturer and instructor at the same university, contributing significantly to teaching and research. His experience includes supervising a large number of undergraduate and graduate students, managing research projects, and publishing eight peer-reviewed manuscripts. Importantly, Mobin brings extensive experience in flow cytometry and bioinformatics.

Since Mobin joined my lab in January 2024, he has immersed himself in the literature and presented several landmark papers on prostate cancer during our lab meetings and journal clubs. He excelled in digesting complex concepts published in advanced journals such as Nature and Cell and presenting them elegantly. This process allowed him to quickly acquire comprehensive knowledge of prostate cancer biology. He is dedicated to investigating the potential resistance mechanisms that allow prostate tumors to evade targeted therapies, a key challenge in improving patient outcomes. As a result, Mobin has engaged in both wet and dry lab investigations and provided preliminary data supporting the need to investigate the MET receptor's role in treatment resistance and the potential for novel antibody-drug conjugates targeting prostate cancer. His research is particularly significant due to the pressing need for more effective treatments for castration-resistant prostate cancer (CRPC) and treatment-induced neuroendocrine prostate cancer (tNEPC).

As his supervisor and a Professor at the Vancouver Prostate Centre, I have had the opportunity to closely observe Mobin's academic and research capabilities, and I am thoroughly impressed by his exceptional skills and dedication. Mobin's project is meticulously designed to investigate MET expression and activation in various prostate cancer cell lines, develop and characterize MET-targeting Variable New Antigen Receptors (VNARs), and assess the therapeutic potential of MET VNAR-drug conjugates. His innovative approach, utilizing VNARs derived from shark immune systems, demonstrates his creativity and willingness to explore unconventional solutions to complex problems.

Mobin is an extremely intelligent and dedicated young scientist. He has the determination, creativity, and intellectual capacity to make fundamental discoveries in prostate cancer biology that can lead to clinical outcomes. His generous collegiality and thoughtfulness toward science make him a favorite among his peers and a pleasure for me to mentor.



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I am fully committed to guiding Mobin through his graduate studies and mentoring him to achieve success, as I have with my previous trainees who are currently holding faculty positions in Canada and around the world.

In summary, I am eager to promote Mobin's capabilities as a talented graduate student, and I highly recommend him for the Four-Year Fellowship at UBC. Please do not hesitate to contact me should you have any concerns or questions.

Amina Zoubeidi

Dr. Amina Zoubeidi
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