



Curriculum Vitae

Name: Majid

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Academic Rank: Professor

Educational Records:

Post.doc. Cloning and expression of the human inducible nitric oxide synthase gene (iNOS), Institut national de la santé et de la recherche médicale (INSERM) U75 CHU Necker Enfants Malades, Paris, France, 1995-1997

PhD. Molecular Biology of Eukaryotes, Option Molecular Virology, with Dr. Peter Sheldrick, Université de Paris VII, France, in collaboration with Dr. John Hay's Laboratory, The State University of New York at Buffalo, NY, USA, 1988-1993

MSc. Molecular Biology of Eukaryotes, Université de Paris VII, France, 1986-1988

BSc. Molecular Biology of Eukaryotes, Université de Paris VII, France, 1985-1986

BSc. Nutritional Engineering, Tabriz University, Iran, 1975-1980

Short-Term Fellowships:

Yeast Molecular Genetics, International Center for Genetics Engineering and Biotechnology (ICGEB), Trieste, Italy, 2008-2009

Background:

Dr. Majid Sadeghizadeh is a Professor of Molecular Genetics, at the Department of Genetics, Tarbiat Modares University, Tehran.

After completing a B.Sc. and an MSc in Molecular Biology, he further continued his Ph.D. at the Université de Paris VII, France, with Dr. Peter Shelderick. His PhD project was conducted in collaboration with Dr. John Hay at the State University of New York at Buffalo. Majid Sadeghizadeh's research there mainly focused on the transcription and replication of human herpes simplex viruses (HSV-1) as well as varicella zoster virus (VZV).

He then returned to Iran in 1994 and joined the Department of Genetics at Tarbiat Modares University (TMU) in Tehran where he was of the founders of the first graduate (PhD) program in Molecular Genetics in Iran. Since then, Professor Majid Sadeghizadeh has been a group leader and a lecturer at the Department of Genetics and trained many young researchers. Also he is a principle investigator at the new-born Department of Nanobiotechnology. His main fields of research include:

- Molecular diagnosis of human infectious viruses e.g. HSV, HBV and Adenoviruses.
- Production of recombinant proteins such as human IL-2 and thermostable DNA polymerases.
- Application of nano(bio)particles such as dendrosomes and bacteriophages for cancer-oriented gene and drug delivery purposes

Professional Experiences:

- Head of research and development center of Biotechnology, Tarbiat Modares University, 2010-present
- Professor of Molecular Genetics, Department of Genetics, Faculty of Biological Sciences, Tarbiat Modares University, 2009-Present
- Associate Professor, Department of Genetics, Faculty of Biological Sciences, Tarbiat Modares University, 2004-2009
- Assistant Professor, Department of Genetics, Faculty of Biological Sciences, Tarbiat Modares University, 1994-2004
- Head of the Biology Group, Faculty of Biological Sciences, Tarbiat Modares University, 2003-2008
- Head of the Department of Genetics, Faculty of Biological Sciences, Tarbiat Modares University, 1998-2005
- Assistant Professor, INSERM U75 (Post.doc) NeckerMedicalSchool, Paris, France, 1994-1996
- Research Associate, Dept of Microbiology, SUNY at Buffalo, USA, 1992-1993
- Research Associate, Uniformed Services University of the Health Sciences(USUHS), Bethesda, USA, 1990-1992
- Biotechnology Committee Member of the Ministry of Science, Research and Technology at Tarbiat Modares University, 2005-Present
- Research Committee member of the Biotechnology Center, School of Medical Sciences, Tarbiat Modares University, 2000-Present

-Book Chapters

1. Abbas Padeganeh, Mohammad Khalaj-Kondori, Babak Bakhshinejad , **Majid Sadeghizadeh**. 2011. **Chapter 2: Non-Viral Vehicles: Principles, Applications, and Challenges in Gene Delivery**. In: Molecular Cloning – Selected Applications in Medicine and Biology, Gregory G. Brown, 21-34, Intech Publications, ISBN 978-953-307-398-9, Rijeka, Croatia
2. **Majid Sadeghizadeh**, Mohammad Khalaj-Kondori, Babak Bakhshinejad. 2012. **Thermostable DNA Polymerases: Molecular Cloning and Evolution**. In: Advances in Genetics Research, Volume 8, Kevin V. Urbano. Nova Science Publishers, ISBN 978-1-62100-705-0, Hauppauge, New York
- 3- Hosseinkhani S, Tafreshi N Kh, **Sadeghizadeh M**, Emamzadeh R, Ranjbar Band Naderi-Manesh H, **Site-directed mutagenesis of Lampyris turkestanicus luciferase: The effect of conserved residue(s) in bioluminescence emission spectra among firefly luciferases**, 2008, In: Bioluminescence and Chemiluminescence light emission: biology and scientific applications, Proceedings of the 15th International Symposium, 23-26.

- Publications:

Katayoon Pakravan, Sadegh Babashah, **Majid Sadeghizadeh**, Seyed Javad Mowla, Majid Mossahebi-Mohammadi, Farangis Ataei, Nasim Dana, Mohammad Javan
MicroRNA-100 shuttled by mesenchymal stem cell-derived exosomes suppresses in vitro angiogenesis through modulating the mTOR/HIF-1 α /VEGF signaling axis in breast cancer cells 2017/7/24 Cellular Oncology

Maryam Montazeri, Younes Pilehvar-Soltanahmadi, Mina Mohaghegh, Alireza Panahi, Samaneh Khodi, Nosratollah Zarghami, **Majid Sadeghizadeh**
Antiproliferative and Apoptotic Effect of Dendrosomal Curcumin Nanof ormulation in P53 Mutant and Wide-Type Cancer Cell Lines 2017/5/1 Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents)

S Darabi, T Tiraihi, AR Delshad, **M Sadeghizadeh**, W Khalil, T Taheri
In vitro non-viral murine pro-neurotrophin 3 gene transfer into rat bone marrow stromal cells , 2017 ,Journal of the neurological sciences 375, 137-145

S Darabi, T Tiraihi, AR Delshad, **M Sadeghizadeh**, T Taheri, HK Hassoun
Creatine Enhances Transdifferentiation of Bone Marrow Stromal Cell-Derived Neural Stem Cell Into GABAergic Neuron-Like Cells Characterized With Differential Gene Expression , 2017 ,Molecular neurobiology 54 (3), 1978-1991

B Soltani, N Bodaghabadi, N Ghaemi, **M Sadeghizadeh**
Radiation-induced surge of macrophage foam cell formation, oxidative damage, and cytokine release is attenuated by a nanoformulation of curcumin, 2017, International journal of radiation biology 93 (3), 303-314

M Mahboubi, T Falsafi, **M Sadeghizadeh**, F Mahjoub
The role of outer inflammatory protein A (OipA) in vaccination of the C57BL/6 mouse model infected by Helicobacter pylori, 2017 ,Turkish journal of medical sciences 47 (1), 326-333

M Motavaf, **M Sadeghizadeh**, M Javan
Attempts to Overcome Remyelination Failure: Toward Opening New Therapeutic Avenues for Multiple Sclerosis , 2017 ,Cellular and Molecular Neurobiology, 1-14

MA Mahjoub, B Bakhshinejad, **M Sadeghizadeh**, S Babashah
Combination treatment with dendrosomal nanocurcumin and doxorubicin improves anticancer effects on breast cancer cells through modulating CXCR4/NF- κ B/Smo regulatory network 2017 Molecular Biology Reports, 1-11

MJ Dehghan Esmatabadi, A Bozorgmehr, SN Hajjari, A Sadat Sombolestani, ZV Malekshahi, **M Sadeghizadeh**
Review of new insights into antimicrobial agents 2017 , Cell Mol Biol (Noisy le Grand) 63 (2)

E Hosseini, SY Hosseini, T Hashempour, MR Fattahi, **M Sadeghizadeh**
Effect of RGD coupled MDA-7/IL-24 on apoptosis induction in a hepatocellular carcinoma cell line , 2017 ,Molecular medicine reports 15 (1), 495-501

S Hosseinzadeh, M Shams-Bakhsh, **M Sadeghizadeh** . Attenuation and quantitation of virulence gene expression in quorum-quenched *Dickeya chrysanthemi* 2017 Archives of microbiology 199 (1), 51-61

Bakhshinejad, B.**Sadeghizadeh**, M.A polystyrene binding target-unrelated peptide isolated in the screening of phage display library .Analytical Biochemistry. 512, 1 November 2016, Pages 120-128

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Ahmadi, E. Soleimanjahi, H. **Sadeghizadeh**, M. Teimoori, A.Development of poly (A)-tailed universal reverse transcription PCR method for sequence-independent

amplification of rearranged rotavirus . Archives of Iranian Medicine. 19, (9),
September 2016, Pages 625-630

Esmatabadi, M.J.D. Bakhshinejad, B. Motlagh, F.M. Babashah, S. **Sadeghizadeh, M.**
Therapeutic resistance and cancer recurrence mechanisms: Unfolding the story of
tumour coming back. Journal of Biosciences
41, (3), 1 September 2016, Pages 497-506

Soltani, B. Bodaghabadi, N. Mahpour, G. Ghaemi, N. **Sadeghizadeh, M.**
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radiation and suppresses their adhesion to monocytes: potential in prevention of
radiation-induced atherosclerosis Biotechnology Letters. 24 August 2016, Pages 1-8

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Alphaproteobacterium MTB-KTN90: magnetotactic bacteria in
bioremediation Bioprocess and Biosystems Engineering .8 August 2016, Pages 1-13

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of virulence gene expression in quorum-quenched *Dickeya chrysanthemi* . Archives of
Microbiology 5 August 2016, Pages 1-11

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of trans-chalcone on atheroma plaque formation, liver fibrosis and adiponectin gene
expression in cholesterol-fed NMRI mice. Pharmacological Reports .68, (4), 1 August
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induction. Cell Biology and Toxicology. 29 July 2016, Pages 1-19

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Mohaghegh, M. Sadeghzadeh, H. Zarghami, N. Dendrosomal curcumin
nanoformulation modulate apoptosis-related genes and protein expression in
hepatocarcinoma cell lines . International Journal of Pharmaceutics ,509, (1-2), 25
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Taher Taheri , Hayder K. Hassoun , Creatine Enhances Transdifferentiation of Bone
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photothermal cancer therapy. An international journal to further the chemical sciences:2016, 6, (66), 61141-61149

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Ranji N, **Sadeghizadeh M**, Karimipoor M, Shokrgozar MA, Nakhaei Sistani R, Paylakhi SH: MicroRNAs Signature in IL-2-Induced CD4+ T Cells and Their Potential Targets. *Biochemical genetics* 2015, 53(7-8):169-183.

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possible approach for differentiation therapy. *Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine* 2015, 36(4):2621-2629.

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Bakhshinejad B, **Sadeghizadeh M**: Bacteriophages and their applications in the diagnosis and treatment of hepatitis B virus infection. *World journal of gastroenterology* 2014, 20(33):11671-11683.

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pluripotency genes via miR-145 activation in U87MG glioblastoma cells. *International journal of nanomedicine* 2014, 9:403-417.

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Behjat Gholami; **Majid Sadeghizadeh**; Hossein Najmabadi

Transduction of COS-7 and K562 cell lines by recombinant lentiviral particles carrying miniLCR and β -globin gene: Introduction to gene therapy of major β -thalassemia
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Maryam Bikhof Torbati; Hossein Khanahmad; Fatemeh Jamshidi; Morteza

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Study of Inosine triphosphate pyrophosphohydrolase gene expression in K562 cells

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Detection and identification of Leishmania parasites within sand flies using kDNA, rDNA and CPB loci

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Mojtaba Saadati; Shahram Nazarian; Babak Barati; Hossein Mehdizadeh; Hadi Shirzad Shirzad; **Majid Sadeghizadeh**; Abbas Mosapour

The planning and Construction of different DNA markers using Plasmids and Lambda DNA

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Mehri khatami; **Majid Sadeghizadeh**; Hourie Saderi; Sara Gharavi; Mohammad Mahdi Heidari; Bijan Ranjbar

Patents:

عنوان اختراع : نانو دارو دندریمری پلی اتلین گلیکول-سیترات-کورکومین جهت مهار عفونت ویروس HIV-1

شماره و تاریخ ثبت اظهار نامه : ۱۳۹۳/۰۴/۲۶ ۱۳۹۵۳۰۱۴۰۰۰۳۰۰۴۳۶۶

شماره و تاریخ ثبت اختراع: ۱۳۹۳/۰۶/۱۰ ۸۳۷۱۸

عنوان اختراع : ساخت ناقل حاوی پروموتور ویژه توموری Oct4 برای نابودی سلولهای سرطانی و عدم نابودی سلولهای نرمال

شماره و تاریخ ثبت اظهار نامه : ۱۳۹۰/۱۱/۲۴ ۳۹۰۱۱۰۷۷۷

شماره و تاریخ ثبت اختراع: ۱۳۹۱/۰۳/۱۰ ۷۵۲۹۷

عنوان اختراع : سنتز و بکارگیری داروی نانوکورکومین برای درمان بیماری مالتیپل اسکلروزیس (ام اس)

شماره و تاریخ ثبت اظهار نامه : ۱۳۹۳/۰۹/۲۳ ۱۳۹۳۵۰۱۴۰۰۰۳۰۱۰۱۳۷

شماره و تاریخ ثبت اختراع: ۱۳۹۴/۰۷/۰۴ ۸۶۷۸۰

عنوان اختراع : HB-89 ترکیبی متشکل از برخی اجزاء زعفران به عنوان داروی موثر در درمان و پیشگیری از سرطان

شماره و تاریخ ثبت اظهار نامه : ۱۳۹۰/۰۷/۳۰ ۳۹۰۰۷۰۹۲۷

شماره و تاریخ ثبت اختراع: ۱۳۹۰/۰۹/۰۵ ۷۲۵۵۵

عنوان اختراع : سنتز و بکارگیری میسل های پلیمری دی بلاک به عنوان نانو حامل های کورکومین
برای درمان سرطان

شماره و تاریخ ثبت اظهار نامه : ۱۳۹۲/۰۷/۲۴ ۱۳۹۲۵۰۱۴۰۰۰۳۰۰۶۳۳۷

شماره و تاریخ ثبت اختراع: ۱۳۹۲/۱۲/۱۱ ۸۲۲۸۴

Honors and Awards:

استاد نمونه دانشکده علوم پایه دانشگاه تربیت مدرس در سال ۱۳۸۷

کандید استاد نمونه کشوری از طرف دانشگاه تربیت مدرس در سال ۱۳۹۴

برنده جایزه بیوتکنولوژی دانشگاه تربیت مدرس برای اجرا طرح تولید کیت MNC-PCR برای

شناسایی پنج ویروس مهم خانواده هرپس انسانی در سال ۸۴/۱/۱۴

برنده جایزه هفتمین جشنواره معرفی آثار برتر مکتوب در زمینه مبارزه با مواد و سو مصرف آن از مرکز

پژوهش ، مطالعات و ،آموزش ستاد مبارزه با مواد مخدر -ریاست جمهوری در دی ماه سال ۱۳۸۸

جوایز دریافتی دانشجویان تحت راهنمایی:

کسب رتبه اول توسط دانشجو دوره دکتری خانم دکتر مهاجری در بخش پایان نامه برتر در اولین جایزه

ملی سلولهای بنیادی پزشکی بازساختی از طرف ستاد توسعه علوم و فناوری های سلول های بنیادی در

سال ۹۵

برنده جایزه جشنواره خوارزمی جوان توسط دانشجو دوره دکتری آقای دکتر باباشاه در سال ۹۲

برنده جایزه جشنواره خوارزمی توسط دانشجو دوره کارشناسی ارشد خانم نرگس تفرشی در سال ۸۵

