

# CURRICULUM VITAE



Name: Mohammad Reza Mofid (Ph.D)

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Date of birth: 14.09.1968

Gender: Male

Place of birth: Tehran-Iran

Marital Status: Married

Number of Children: one

## Academic Positions

Since	Feb	Associate Professor of the Department of Clinical Biochemistry of Isfahan University of Medical Sciences.
2015		
2010		Assistant Professor of the Department of Clinical Biochemistry of Isfahan University of Medical Sciences.
2006		Assistant Professor of the Department of Secondary Metabolite, Agricultural Biotechnology Research Institute-Central region of Iran, Isfahan.
2003-2005		Post Doc, Prof. Thomas Carell Group, LMU-Munich, Germany
2001-2003		Post Doc, Prof. Marahiel Group, Philipps-University Marburg, Germany

**Education:**

Degree	Institution	Field	Date
B.Sc	Philipps-University Marburg, Germany	Chemistry	1996
M.Sc.	Philipps-University Marburg, Germany	Biochemistry	1998
PhD.	Philipps-University Marburg, Germany	Biochemistry	2001

**Awards and Honors:**

Best Researcher Award from Minister of Agriculture for a project on the production of anticancer drugs Taxol (2008)

Best Assistant Professors in School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences (2015)

**Research and Teaching Interests:**

- Proteomics, Structure, Protein function, Post-Translational Modification of Protein, Protein-Protein-Interaction, Purification and Protein Formulation
- Cancer and therapeutically Protein

**Teaching Experience:**

- Biochemistry( Structure, Metabolism)
- Protein (Bioinformatics, Structure, and Function)
- Protein Expression and Purification (E. coli, Yeast and Cell culture and Chromatography)
- Protein Analysis (Bioanalytic)

**Professional Experience:**

Protein Chemistry, RT-PCR, Cloning, Recombinant Protein Expression, Chromatography (HPLC and FPLC), Crystallography, Masse-Analysis, Bioinformatics Program, ....

**Patent:**

Labelling strategies for the sensitive detection of analytes, Thomas Carell, Anja Schwögler, Glenn A Burley, Johannes Gierlich, Mohammad Reza Mofid, US Patent 8,129,315.

**Interessen & Hobbies**

Cooking, Cycling, and Swimming

## Publicationen :

1- Vettel S., Lutz S.C., Diefenbach A., Haderlein G., Hammerschmidt S., Ktihling K, **Mofid M.-R.**, Zimmermann T. and. Knochel \*P., (1997) Catalytic asymmetric synthesis of protected  $\alpha$ -hydroxy aldehydes and related 1,2-difunctional chiral building blocks. An enantioselective synthesis of ( -)-exo- and ( -)-endo-brevicomin. *Tetrahedron: Asymmetry* 8, 779-800.

2- Mofid, **M.R.**, Marahiel, M.A., Ficner, R. and Reuter\*, K. (1999) Crystallization and preliminary crystallographic studies of Sfp: a phosphopantetheinyl transferase of modular peptide synthetases. *Acta Crystallogr D Biol Crystallogr*, 55, 1098-1100.

3- Reuter, K., **Mofid, M.R.**, Marahiel, M.A. and Ficner\*, R. (1999) Crystal structure of the surfactin synthetase activating enzyme sfp: a prototype of the 4'-phosphopantetheinyl transferase superfamily. *Embo J*, 18, 6823-31.

4- **Mofid, M.**, Finking R and Marahiel\* MA. M. (2002) Recognition of hybrid peptidyl carrier proteins/acyl carrier proteins in nonribosomal peptide synthetase modules by the 4'-phosphopantetheinyl transferases AcpS and Sfp. *J Biol Chem* 2002, 10;277(19):17023-31.

5- **Mofid, M.R.**, Finking R. and Marahiel MA\*., M. (2004) Structure-based mutation analysis of the 4'-phosphopantetheinyl transferases Sfp from *B. subtilis*: carrier protein recognition and reaction mechanism. *Biochemistry*, 43, 14, 4128-36.

6- Finking R, **Mofid MR** and Marahiel\* MA, (2004) Mutational analysis of peptidyl carrier protein and acyl carrier protein synthase unveils residues involved in protein-protein recognition. *Biochemistry*, 43, 28, 8946-56.

7- Burley GA, Gierlich J, **Mofid MR**, Nir H, Tal S, Eichen Y, Carell\* T. (2006) Directed DNA metallization. *J Am Chem Soc.* 2006 Feb 8;128(5):1398-9.

8- Koglin A, **Mofid MR**, Lohr F, Schafer B, Rogov VV, Blum MM, Mittag T, Marahiel MA, Bernhard F, Dötsch\* V. (Apr 14, 2006) Conformational switches modulate protein interactions in peptide antibiotic synthetases. *Science*; 312(5771):273-6.

9- M. Haghghatian, **M. R. Mofid\***, A. Hosseini Tafreshi, P. Yaghmaei, Isomalt production by cloning, purifying, and expressing of a MDH gene from *pseudomonas fluorescence* DSM 50106 in different strains of *E. coli*, *Pak J Biol Sci.* 2008 Aug 15;11(16):2001-6.

10- Koglin A, Löhr F, Bernhard F, Rogov VV, Frueh DP, Strieter ER, **Mofid MR**, Güntert P, Wagner G, Walsh \*CT, Marahiel\* MA, Dötsch\* V., Structural basis for the selectivity of the external thioesterase of the surfactin synthetase. *Nature.* 2008 Aug 14;454(7206):907-11.

11- Abolghasem Abbasi Kejani, Sayed Ali Hosseini Tafreshi and **Mohammad Reza Mofid\***; Efficient isolation of high quality nucleic acids from different tissues of *Taxus baccata* L. , *Molecular Biology Reports*, 2010 Feb;37(2):797-800.

12- Abbasi Kajani A, **Mofid MR\***, Abolfazli K, Hosseini Tafreshi SA., Encapsulated activated charcoal as a potent agent for improving taxanes synthesis and recovering from the culture. *Biotechnol Appl Biochem.* 2010 14;56(2):71-6.

13- Sobhani Najafabadi. A, **Mofid M.R\*.**, Mohammadi1 R. and Moghim S., Quantification of

ergovaline using HPLC and mass spectrometry in Iranian Neotyphodium infected tall fescue, 2010, Research in Pharmaceutical Sciences, Volume 5, Issue 2, 2010, Pages 136-143.

14- S. A. Hosseini Tafreshi & M. Shariati\* & **M. R. Mofid** & M. Khayam Nekui, Rapid germination and development of *Taxus baccata* L. by in vitro embryo culture and hydroponic growth of seedlings, In Vitro Cell. Dev. Biol.—Plant, 2011, Volume 47, Issue 5, Pages 561-568.

15- Mir Mohammad Sadeghi, R. Ahmadi, S. Aghaabdollahian, **M.R. Mofid**, Y. Ghaemi and D. Abedi, Molecular cloning of gluconobacter oxydans DSM 2003 xylitol dehydrogenase gene, 2011, Research in Pharmaceutical Sciences; 6(1): 51-55.

16- Vajihe Akbari, Sharareh Moghim and **Mohammad Reza Mofid\***, Comparison of epothilone and taxol binding in yeast tubulin using molecular modeling, 2011, Avicenna Journal of Medical Biotechnology (AJMB).2011, Volume 3, Issue 4, Pages 167-175.

17- Farahmand, L., Majidzadeh-A\*, K. , Sepehrizadeh, Z. , **Mofid, M.R.**, Esmaeili, R., Yazdi, M.T., Ligation independent cloning of polycistronic, genetically modified, HuMAb4D5-8 F(ab')<sub>2</sub> in bacterial plasmid, 2012, Avicenna Journal of Medical Biotechnology (4), Pages 15-22.

18-S.A. Hosseini Tafreshi , M. Shariati, **M. R. Mofid\***, Mojtaba Khayam Nekui and Abolghasem Esmaeili, Heterologous virus-induced gene silencing as a promising approach in plant functional genomics, Molecular Biology Reports, Volume 39, Issue 3, March 2012, Pages 2169-2178.

19- Kajani, A.A., Moghim, S., **Mofid, M.R.\***, Enhanced taxane production and secretion from *Taxus baccata* cell culture by adding dimethylsulfoxide, 2012, Biotechnology and Applied Biochemistry Volume 59, Issue 3, 1 May 2012, Pages 223-227.

20- Nazari, P., Faramarzi, M.A., Sepehrizadeh, Z., **Mofid, M.R.**, Bazaz, R.D., Shahverdi, A.R.\*, Biosynthesis of bismuth nanoparticles using *Serratia marcescens* isolated from the Caspian Sea and their characterization, 2012, IET Nanobiotechnology Volume 6, Issue 2, , Pages 58-62.

21- A. Abbasi Kajani ; Sh. Moghim ; **M. R. Mofid\***, Optimization of the basal medium for improving production and secretion of taxanes from suspension cell culture of *Taxus baccata*, DARU, Journal of Pharmaceutical Sciences 2012, Vol. 20(oct), Pages 1-10.

22- Abbasi Kajani, A., **Mofid\*, M.R.**, Alami Saeid, K., Molecular cloning and characterization of the phenylalanine aminomutase gene from *Taxus baccata* L, 2013, Iranian Journal of Biotechnology, 11 (2), pp. 96-103.

23- Nazari, P., Dowlatabadi-Bazaz, R., **Mofid, M.R.**, Pourmand, M.R. Daryani, N.E., Faramarzi, M.A., Sepehrizadeh, Z. Shahverdi\*, A.R., The antimicrobial effects and metabolomic footprinting of carboxyl-capped bismuth nanoparticles against *helicobacter pylor*, 2013, Applied Biochemistry and Biotechnology, Volume 172, Issue 2, January 2014, Pages 570-579.

24- Kahaki, F.A., Babaeipour\*, V. , Memari, H.R., **Mofid, M.R.**, High Overexpression and Purification of Optimized Bacterio-Opsonin from *Halobacterium Salinarum* R1 in *E. coli* Applied

Biochemistry and Biotechnology, Volume 174, Issue 4, 2014, Pages 1558-1571.

25- S. Jafari, V. Babaeipour, H.A. Eslampanah Seyedi, M. Rahaie, **M.R. Mofid**\*, L. Haddad, M. Namvaran and J. Fallah, Recombinant production of mecasermin in E. coli expression system, Research in Pharmaceutical Sciences, December 2014; 9(6): 453-461.

26- J Ranjbari, V Babaeipour,\* H Vahidi, H Moghimi, **MR Mofid**, MM Namvaran, Enhanced production of insulin-like growth factor I protein in Escherichia coli by optimization of five key factors, Iranian journal of pharmaceutical research: IJPR 2015, 14 (3), 907-917.

27- E Khodadadi, M Panjepour, M Abbasian, ZK Broujeni, **MR Mofid**\*, Cloning and expression of full-length human insulin-like growth factor binding protein 3 (IGFBP3) in the Escherichia coli, Advanced biomedical research 2015, 4 (1), 66

28- V Babaeipour\*, S Khanchezar, **MR Mofid**, MPH Abbas, Efficient process development of recombinant human granulocyte colony-stimulating factor (rh-GCSF) production in Escherichia coli, Iranian biomedical journal, 2015, 19 (2), 102-110.

29- Haddad L, Babaeipour V, **Mofid MR**\*, The effect of cell disruption techniques and chaotropic agents on the downstream purification process of mecasermin produced as inclusion body in E. coli. Res Pharm Sci. 2015, 10 (6), 553-61.

30- Abbasian M, Eslampanah Seyedi HA, Sayed Tabatabaei BE, Arab-Bafrani Z, **Mofid MR**, Zareie R\*, Recombinant production, purification and characterization of vessel dilator in E. coli, Protein Expression and Purification 2017, 129, 75-83.

31- Y Orooji, F Liang, A Razmjou, S Li, **MR Mofid**, Q Liu, K Guan, Z Liu, W Jin\*, Excellent Biofouling Alleviation of Thermoexfoliated Vermiculite Blended Poly (ether sulfone) Ultrafiltration Membrane, ACS applied materials & interfaces, 2017, 9 (35), 30024-30034.

32- Babaeipour, V.\*, **Mofid, M.R.**, Khanchezar, S., Faraji, F., Abolghasemi, S., Bench-scale Overproduction and Purification of recombinant GCSF in Escherichia coli fed-batch process, Journal of Applied Pharmaceutical Science Volume 7, Issue 8, 1 August 2017, Pages 149-155.

33- Ansari, A., Gheysarzadeh, A., **Mofid**\*, **M.R.**, The interaction of insulin-like growth factor binding protein 3 (IGFBP-3) in insulin-like growth factor (IGF)-independent system, Journal of Isfahan Medical School Volume 35, Issue 451, December 2017, Pages 1452-1461.

34- Shariat SZAS, Borzouee F, **Mofid MR**, Varshosaz\*, J., Immobilization of lactoperoxidase on graphene oxide nanosheets with improved activity and stability. Biotechnol Lett. 2018 Jun 18, , Pages 1-11.

35- Ghashghaei, S., Etemadifar\*, Z. and **Mofid, M.R.**, Studies on the Kinetics of Antibacterial Agent Production in Two Actinomycete Strains, F9 and Is5, Isolated from Soil Samples, Iran, Iranian Journal of Science and Technology, Transaction A: Science 42(3), pp. 1139-1147.

36- Jafari E, Gheysarzadeh A, Mahnam K, Shahmohammadi R, Ansari A, Bakhtyari H, **Mofid MR**\*, In silico interaction of insulin-like growth factor binding protein 3 with insulin-like growth factor 1. Res Pharm Sci. 2018 Aug;13(4):332-342.