

CURRICULUM VITA

Manouchehr Teymouri- Scientist

Age: 37

Sex: Male

Status: Married

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SUMMARY

Team-oriented, creative and technically-experienced pharmaceutical Nano - formulations seeking research and developing position.

Biotechnology Research Center, Nanotechnology Research Center, School of Pharmacy, Mashhad University of Medical Sciences, Mashhad 91775-1365, Iran.

EDUCATION

Sep 2011 -March 2016: Ph.D. degree in Pharmaceutical Biotechnology at Mashhad University of Medical Sciences, Mashhad, Iran.

Sep 2007 -Feb 2010: M.Sc. degree in Cellular and Molecular Biology at Tehran University, Tehran, Iran

Sep 2000 -Sep 2004: B.S. degree in Biology at Hakim Sabzevari University, Sabzevar, Iran

DISSERTATION

Ph. D. Thesis Title: Preparation and characterization of thermosensitive Nano -liposomes containing doxorubicin and Miltefosine targeted with TAT peptide and evaluation of their anti -tumor effects, in vitro and in vivo in mice bearing C26 colon carcinoma tumor.

LAB SKILLS

Eukaryotic cell culture as well as cell manipulation, Cytotoxicity assays (MTT, MTS, PI-apoptosis fractionation of cell population, calculating different states of cell cycle frequency among cellular population [G1/S arrest, S-arrest, G2/M arrest]), exploitation of flowcytometry (e.g., Using different hydrophobic and hydrophilic fluorescent indicators, double-fluorescent dye usage, Doxorubicin usage), Spectrofluorimetry (calculating quenching coefficient, kinetics of cell targeting via receptor-specific ligands, etc), analytical HPLC, Gel electrophoresis (Agarose and polyacrilamide gels), *In vivo* pharmacokinetic studies, Handling of the environmental microbes (optimization of the media using different Response Surface Methodologies, microbial screening, PCR of 16S rDNA together with the exploration of close relatives using NCBI GenBank and softwares), Purification techniques (size exclusion, ion-exchange together with the issues of the calculating void volumes in different columns and

retention times of using different g-forces), different loading techniques regarding loading of Doxorubicin into liposomes with various buffers, e.g., citrate buffer and MnSO₄ for preparation of thermosensitive liposomes and ammonium sulfate for preparation of Doxil), ...

COMPUTER SKILLS

Word processing, Excel software, GraphPad prism, Design Expert software (DOE), minitab, SPSS, Mega 4 software, Photoshop, PaintNet, FlowJo software

OTHER SKILLS

Academic writing, English language (communication, tutor of English), public speaking and mentoring skill.

TEACHING EXPERIENCE

Teaching Biochemistry, Cellular and molecular biology, and immunology at Hakim Sabzevari University, Iran.

RESEARCH PROJECTS

- ۱- Co-worker of the “Preparation and characterization of thermosensitive-Nano liposomes containing doxorubicin and Miltefosine targeted with TAT peptide and evaluation of their anti-tumor effects, in vitro and in vivo in mice bearing C26 colon carcinoma tumor”-Project number: 920266
- ۲- Co-worker of the “Investigation of Nano-liposomal doxorubicin with varying solid-to-liquid cristaline phase temperature with respect to *in vitro* and *in vivo* therapeutic impacts”- Project number: 941847
- ۳- Co-worker of the “Study of the probable protective effect of probiotic bacteria’ administration of Fe-serum concentration of ferrous-sulfate poisoned rats”- Project number: 931416
- ۴- Co-worker of the “Evaluation of the protective effect of probiotic bacteria on acute lithium toxicity in rat”- Project number: 931555

Web address:

http://research.mums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=8009252

PUBBLICATIONS

1- Teymouri M, Badiie A, Golmohammadzadeh S, Sadri K, Akhtari J, Mellat M, Nikpour A, Jaafari MR*, (2016). Tat peptide and Hexadecylphosphocholine introduction into Pegylated liposomal doxorubicin: an in vitro and in vivo study on drug cellular delivery, release, biodistribution and antitumor activity. International Journal of Pharmaceutics, 511, 236-244 IF: 3.994

2- Teymouri M, Farzaneh H, Badiie A, Golmohammadzadeh S, Sadri K, Jaafari MR*, (2015). Investigation of Hexadecylphosphocholine (miltefosine) usage in Pegylated liposomal doxorubicin as a synergistic ingredient: In vitro and in vivo evaluation in mice bearing C26 colon carcinoma and B16F0

melanoma. *European Journal of Pharmaceutical Sciences*, 80, 66-73. doi: 0.1016/j.ejps.2015.08.011 IF: 3.773

3- Farzaneh HR., Ebrahimi Nik M, Mashreghi M, Saberina Z, Jaafari MR*, **Teymouri M***. A study on the role of cholesterol and phosphatidylcholine in various features of liposomal doxorubicin: from liposomal preparation to therapy. *International Journal of Pharmaceutics*, In press.

4- Akhtari J, Rezayat SM, Teymouri M, Alavizadeh SH, Gheybi F, Badiie A, Jaafari MR*, (2016). Targeting, bio distributive and tumor growth inhibiting characterization of anti-HER2 affibody coupling to liposomal doxorubicin using BALB/c mice bearing TUBO tumors. *International Journal of Pharmaceutics*, 505, 89-95. doi: 10.1016/j.ijpharm.2016.03.060 IF: 3.994

5- Teymouri M, Karkhane M, Marzbam M, Marzban A *, (2015). Designing a response surface model for removing phosphate and organic compound from wastewater by *Pseudomonas* Strain MT1. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 1-10. doi: 10.1007/s40011 -015-0686-7 IF: 0.4

6- Teymouri M, Karkhane M, Gilavand F, Akhtari J, Marzban A*, (2016). Extracellular lipase purification from a marine *Planomicrobium* sp. MR23K and productivity optimization in a pilot-scale submerged bioreactor. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, doi: 10.1007/s40011-016-0812-1 IF: 0.4

7- Teymouri M, Akhtari J, Karkhane M, Marzban A*, (2016). Assessment of phosphate solubilization activity of Rhizobacteria in mangrove forest. *Biocatalysis and Agricultural Biotechnology*, 5, 168 -172. doi: 10.1016/j.bcab.2016.01.012 ISI IF: undefined

8- Marzban A, Ebrahimpour G, Karkhane M, Teymouri M*, (2016). Metal resistant and phosphate solubilizing bacterium improves maize (*Zea mays*) growth in metal-bearing soils. *Biocatalysis and Agricultural Biotechnology*, 8, 13-17 ISI IF: undefined

9- Teymouri M, Pirro M, Johnston TP, Sahebkar A*, (2017). Curcumin as a multifaceted compound against human papilloma virus infection and cervical cancers: A review of chemistry, cellular, molecular, and preclinical features. *Biofactors*, 43 (3), 331-346. doi: 10.1002/biof.1344 ISI IF: 4.504

10- Teymouri M, Barati N, Pirro M, Sahebkar A*, (2017). Biological and pharmacological evaluation of dimethoxycurcumin: A metabolically stable curcumin analogue with a promising therapeutic potential. *Journal of cellular physiology*. 233 (1), 124-140. doi: 10.1002/jcp.25749 IF: 4.155

11- Panahi Y, Ahmadi Y*, Teymouri M, Johnston TP, Sahebkar A*, (2017). Curcumin as a Potential Candidate for Treating Hyperlipidemia: A Review of Cellular and Metabolic Mechanisms. *Journal of cellular physiology*. doi: 10.1002/jcp.25756 IF: 4.155

12- Ebrahimipour G , Gilavand F, Karkhane M, Kavyanifard AA, Teymouri M, Marzban M*, (2014). Bioemulsification activity assessment of an indigenous strain of halotolerant *Planococcus* and partial characterization of produced biosurfactants. *International Journal of Environmental Science and Technology*, 11, 1379-1386. doi: 10.1007/s13762-014 -0548-5 IF: 2.403

- 13- Mosafer J, **Teymouri M**, Abnous K, Tafaghodi M, Ramezani M*, (2016). Study and evaluation of nucleolin-targeted delivery of magnetic PLGA-PEG nanospheres loaded with doxorubicin to C6 glioma cells compared with low nucleolin-expressing L929 cells. *Materials Science and Engineering: C*, 72, 123-133. IF: 4.164
- 14- Mosafer J*, **Teymouri M**, (2017). Comparative study of superparamagnetic iron oxide/doxorubicin co-loaded poly (lactic-co-glycolic acid) nanospheres prepared by different emulsion solvent evaporation methods. *Artificial Cells, Nanomedicine, and Biotechnology*, 46(6):1146-1155. IF: 5.605
- 15- Teymouri M, Pirro M, Fallarino F, Gargaro M, Sahebkar A*, (2018). IL-35, a hallmark of immune-regulation in cancer progression, chronic infections and inflammatory diseases. *International Journal of Cancer*. doi.org/10.1002/ijc.31382 IF: 6.513
- 16- Teimori M, Montasser Kouhsari S, Ghafarzadegan R*, Hajiaghaee R, (2010), Antidiabetic effects of *Juglans regia* leave's methanolic extract on alloxan-induced male wisrar rats. *Journal of Medicinal Plants*, Vol 9, number 34, 142-149. ISC
- 17- Teimori M, Montasser Kouhsari S, Ghafarzadegan R*, Hajiaghaee R, (2010). Study of hypoglycemic effect of *Juglans regia* leaves and its mechanism. *Journal of Medicinal Plants*, 9, 57-65. ISC