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Mohsen Alipour received the Ph.D. degree in Nanobiotechnology at University of Tarbiat Modares, Tehran, in ۲۰۱۷. He currently serves as Assistance Professor of Nanomedicine at Jahrom University of Medical Sciences. Dr. Alipour completed his clinical Immunology & Hematology trainings, at the IKH of Tehran University of Medical Sciences. His research interests include development of smart vehicles for gene/drug delivery, design and fabrication of micro/nanosensors and development of nanobio toolbox for cell-death and cancer metastasis.

**Publications**

Shamsipur, M., Molaie, K., Molaabasi, F., Hosseinkhani, S., Alizadeh, N., Alipour, M., & Moassess, S. (۲۰۱۸). One-step synthesis and characterization of highly luminescent nitrogen and phosphorus co-doped carbon dots and their application as highly selective and sensitive nanoprobe for low level detection of uranyl ion in hair and water samples and application to cellular imaging. **Sensors and Actuators B: Chemical**, ۲۵۷, ۷۸۲-۷۷۲.

Mehrzaad, J., Malvandi, A. M., Alipour, M., & Hosseinkhani, S. (۲۰۱۷). Environmentally relevant level of aflatoxin B<sub>1</sub> elicits toxic pro-inflammatory response in murine CNS-derived cells. **Toxicology letters**, ۲۷۹, ۱۰۶-۹۶.

Jakubowski, H., Xie, J., Kumar Mitra, A., Ghooi, R., Hosseinkhani, S., Alipour, M., Hajipour, B. & Obiero, G. (۲۰۱۷) The Global Ethics Corner: Foundations, beliefs, and the teaching of biomedical and scientific ethics around the world. **Biochemistry and Molecular Biology Education**.

Alipour, M., Hosseinkhani, S., Sheikhnejad, R., & Cheraghi, R. (۲۰۱۷). Nano-biomimetic carriers are implicated in mechanistic evaluation of intracellular gene delivery. *Scientific Reports*, ۷.

Cheraghi, R., Alipour, M., Nazari, M., & Hosseinkhani, S. (۲۰۱۷). Optimization of conditions for gene delivery system based on PEI. *Nanomedicine Journal*, ۴(۱), ۱۶-۸.

Cheraghi, R., Nazari, M., Alipour, M., Majidi, A., & Hosseinkhani, S. (۲۰۱۶). Development of a Targeted anti-HER $\gamma$  scFv Chimeric Peptide for Gene Delivery into HER $\gamma$ -Positive Breast Cancer Cells. *International Journal of Pharmaceutics*, ۵۱۵(۱), ۶۴۳-۶۳۲.

Akrami, M., Balalaie, S., Hosseinkhani, S., Alipour, M., Salehi, F., Bahador, A. & Haririan, I. ۲۰۱۶. "Tuning the anticancer activity of a novel pro-apoptotic peptide using gold nanoparticle platforms", *Scientific Reports*. ۶, ۳۱۰۳۰.

## Presentations

Alipour, M., Hosseinkhani, S., Sheikhnejad, R. ۲۰۱۷. Biomimetic nano-platform facilitates the mechanistic evaluation of endosome-escaping peptides. *۳th Iranian Peptide Conference & Humboldt-Kolleg*, Tehran Medical University, Tehran January ۲۰۱۷.

Alipour, M., Hosseinkhani, S., Sheikhnejad, R. ۲۰۱۶. Nanohybrid of DNA-polymer facilitates suicide gene therapy of non-Hodgkin lymphoma. *۴th International Conference on Nanoscience and Nanotechnology*. Kharazmi University, Karaj, Iran. October ۲۰۱۶

Alipour, M., Hosseinkhani, S. ۲۰۱۶. "Development of a pH sensitive peptide-based nanocarrier for gene delivery to cancer cells", *۴th International Conference on Nanostructures (ICNS ۴)*. Kish Island, Iran. ۱۰-۷ March ۲۰۱۶,

Alipour, M., Hosseinkhani, S. ۲۰۱۵. "Design and Characterization of a Peptide-Based Nanocarrier, MPG-H $\gamma$ -iRGD, for Gene Delivery to Breast Cancer Cells". *۱st International Conference of breast cancer*. Shahid beheshti Medical university, Tehran. ۲۰۱۵

## Other Researches

*Design and synthesis of protein A – Chitosan conjugate for easy and rapid antibody isolation (co-work)*

## Teaching experience

*Basic biochemistry (۲۰۱۲)*

## Workshops

- *Iran Korea Nano science workshop ۲۰۱۲ (iknow ۲۰۱۲), Tarbiat Modares University (TMU) ۲۰۱۲*

- *Bioinformatics programming by Matlab workshop ,Tarbiat Modares University (TMU) ۲۰۱۲*
- *Quantum dot synthesis and its applications in Nano science, biology, electronic. , Tarbiat Modares University (TMU)*
- *Primer design and introduction to PCR, Tarbiat Modares University (TMU) ۲۰۱۳*

### **Professional experiences**

- *Executive member of international conference of Nano science and nanotechnology (icnn ۲۰۱۴), Tarbiat Modares University (TMU), ۲۴-۲۲ October ۲۰۱۴*
- *Director of Nano biotechnology student-scientific association, Tarbiat Modares University (TMU) ( ۲۰۱۴-۲۰۱۳)*

### **Fields of interest**

- Nano medicine and Nano biotechnology
- Gene therapy
- Neuroscience
- Immuno-Oncology