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Omid Mashinchian, Biotechnology & Bioengineering (MSc, PhDs)

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Education

Master: *Medical Nanotechnology (Nanomedicine)*. 11/2014, University: **Tehran University of Medical Sciences**, City: Tehran, Country, Iran

PhD: *Biotechnology & Bioengineering*. 06/2019, University: **Nestle Institute of Health Sciences/Swiss Federal Institute of Technology (EPFL)**, City: Lausanne, Country, Switzerland

Thesis

Omid Mashinchian: *Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration*. 11/2014, Degree: **MSc**, Supervisors: **Prof. Morteza Mahmoudi** and **Prof. Seyed Mehdi Rezayat**

Research Experience

Jun 2015 – Jun 2019

Doctoral Assistant (PhD) in Biotechnology & Bioengineering

Swiss Federal Institute of Technology (EPFL)/Nestle Institute of Health Sciences
Lausanne
Switzerland

Oct 2012 – Nov 2014

MSc in Medical Nanotechnology (Nanomedicine)

Tehran University of Medical Sciences Rasht, Iran
Tehran
Iran

Awards & Grants

Graduate Research and Teaching Assistantship (GRA/GTA), Northeastern University, MA, United States, 2015-2019

First Prize for Business Plan, 7th Asia Nanotech Camp (ANC2014), Tehran, Iran, 2014

Ranked #1 Among the Medical Nanotechnology Students (MSc Degree), Tehran University of Medical Sciences (TUMS), 2014

Invited Judgment (Scientific) Committee and Panel Member, 19th International Congress of Laboratory & Clinic, Tehran, Iran, 2014

Award of the International Scholarship for Postgraduate Teaching Program and Travel Grant, UEGW, Amsterdam, The Netherlands, 2012

Ranked 16th Among the Biomedical Students in the University Entrance National Exam for MSc Degree, 2012

UEGW 2011 Travel Award, Stockholm, Sweden, 2011

Award of the Young Investigator Competition and Congress Bursary, 16th World Congress of Basic and Clinical Pharmacology (WorldPharma2010), Copenhagen, Denmark, 2010

Award of Student Membership, American College of Clinical Pharmacology (ACCP) for 2010-2011 Year

Award of 3rd Prize for the Best Oral Lecture, 1st Student Congress on New Perspectives in Health System Arena, Urmia, Iran, 2009

Selected Secretary Candidate, National Festival of the University Student Association, Tehran, Iran, 2009

Book Chapters

O. Mashinchian, S. Bonakdar, S. Sharifi and M. Mahmoudi. Stem Cell Nanoengineering from Bench to Bed; Commercial Strategies in Nano Tissue Engineering and Clinical Applications (Including Different Regulatory Agencies and Public Information Sites, Commercialization). *Book Chapter in Stem Cell NanoEngineering*. John Wiley & Sons, Inc. 2015.

S. Bonakdar and **O. Mashinchian**. Toxicity of Nanobiomaterials. *Book Chapter in Stem Cell NanoEngineering*. John Wiley & Sons, Inc. 2015.

Selected Journal Publications

O. Mashinchian, L. A. Turner, M. J. Dalby, S. Laurent, M. A. Shokrgozar, S. Bonakdar, M. Imani and M. Mahmoudi. Regulation of Stem Cell Fate by Nanomaterial Substrates. **Nanomedicine**. 2015, 10 (5). Impact Factor: "5.824" (*Highlighted in RegMedNet*)

O. Mashinchian, S. Bonakdar, H. Taghinejad, V. Satarifard, M. Heidari, M. Majidi, S. Sharifi, A. Peirovi, S. Saffar, M. Taghinejad, M. Abdolahad, S. Mohajerzadeh, M. A. Shokrgozar, S. M. Rezayat, M. R. Ejtehad, M. J. Dalby and M. Mahmoudi. Cell-Imprinted Substrates Act as an Artificial Niche for Skin Regeneration. **ACS Applied Materials and Interfaces**. 2015, 6 (15). Impact Factor: "5.900" (*Highlighted in Nanowork*)

M. Abdolahad, A. Saeedi, M. Janmaleki, O. Mashinchian, M. Taghinejad, H. Taghinejad, S. Azimi, M. Mahmoudi and S. Mohajerzadeh. A Single-Cell Correlative Nanoelectromechanosensing Approach to Detect Cancerous Transformation: Monitoring the Function of F-actin Microfilaments in the Modulation of the Ion Channel Activity. **Nanoscale**. 2015, 7 (5). Impact Factor: "6.739" (*Highlighted in Nanowork*)

T. Norizadeh-Abbariki*, O. Mashinchian*, M. A. Shokrgozar, N. Haghighipour, T. Sen and M. Mahmoudi. Superparamagnetic Nanoparticles Direct Differentiation of Embryonic Stem Cells into Skeletal Muscle Cells. **Journal of Biomaterials and Tissue Engineering**. 2014, 4. Impact Factor: "1.167". (**Contributed Equally*)

M. J. Hajipour, J. Raheb, O. Akhavan, S. Arjmand, O. Mashinchian, V. Serpooshan, S. Laurent, and M. Mahmoudi. Personalized, Disease-Specific Protein Corona Influences the Therapeutic Impact of Graphene Oxide. **ACS Nano**. 2015. Impact Factor: "12.033"

J. Ezzati Nazhad Dolatabadi, O. Mashinchian, B. Ayoubi, A. A. Jamali, A. Mobed, D. Losic, Y. Omid and M. de la Guardia. Optical and Electrochemical DNA Nanobiosensors. **TrAC Trends in Analytical Chemistry**. 2011; 30 (3). Impact Factor: "6.612" (*Top 25 Most Downloaded Article*)

Full Publication List: [Google Scholar](#)