

رزومه

نامزد عضویت در هیات مدیره انجمن علمی مهندسی و ترمیم بافت ایران

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**Professor Ali Samadikuchaksaraei**

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**Education:** MD, PhD

**Positions:** Professor of Medical Biotechnology, Tissue Engineering and Regenerative Medicine

**Google scholar ID and h-index:**

<https://scholar.google.com/citations?user=30gadHcAAAAJ&hl=en>

**h-index:** 39

**Scopus ID and h-index:**

6506900852

**h-index:** 33

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**The resume in brief:**

I have received my MD degree from Iran University of Medical Sciences in 1996 and my PhD degree from Imperial College London in 2005. My expertise is mainly focused on regenerative niche engineering for skeletal, integumentary and respiratory systems using stem cells and biomimetic materials. My publications, including book chapters, editorials, abstracts and original articles are published in collaboration with an international network of high-profile scientists around the world. Some of my research outputs have been patented for commercial purposes. I serve on the editorial boards of several journals and regularly review for many top publishers. Additionally, I review for granting bodies and patent and intellectual properties state organizations. Also, I have a long-standing experience in teaching the basic and advanced courses of tissue engineering and regenerative medicine to postgraduate biomedical and engineering

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students and to physicians in training. My academic and entrepreneurship activities have been recognized by several institutional and national awards and honors.

I have actively sought to create a national infra-structure to foster sustainable development in TERM. Hence, I teamed up with country's leading scientists to found the National Education Board, the National PhD Program and the Iranian Society for TERM. I am a regular consultant for the National Science and Technology Development Council, Academy of Medicine, Ministry of Health, Ministry of Science and different industrial sectors and start-up companies .

I founded the Department of Tissue Engineering and Regenerative Medicine at Iran University of Medical Sciences in January 2010 and served as the head of that department until April 2021. The Department ranked first in the First National Research Assessment Exercise of the Departments of Medical Universities released in November 2020.

#### **The most important and relevant publications: (up to 10 paper)**

- Fereshteh Z, Fathi MH, Kargozar S, **Samadikuchaksaraei A**. Formulation of electrospun Mg-FA/ Poly( $\epsilon$ -caprolactone) nanocomposite to adjust bioactivity, biodegradability, and cellular interactions. *Polym Adv Technol* doi: 10.1002/pat.5291 (ePub), 2021.
- Shirani A, Ganji F, Golmohammadi M, Hashemi SM, Mozafari M, Amoabediny G, Karkuki Osguei N, Samadikuchaksaraei A. Cross-linked acellular lung for application in tissue engineering: Effects on biocompatibility, mechanical properties and immunological responses. *Mater Sci Eng C Mater Biol Appl* 122: 111938; doi: 10.1016/j.msec.2021.111938 (ePub), 2021.
- Rahnamaee SY, Bagheri R, Heidarpour H, Vossoughi M, Golizadeh M, Samadikuchaksaraei A. Nanofibrillated chitosan coated highly ordered titania nanotubes array/graphene nanocomposite with improved biological characters. *Carbohydr Polym* 254: 117465, doi: 10.1016/j.carbpol.2020.117465, 2021.
- Sadeghi D, Solouk A, Samadikuchaksaraei A, Seifalian AM. Preparation of internally-crosslinked alginate microspheres: Optimization of process parameters and study of pH-responsive behaviors. *Carbohydr Polym* 255: 117336, 2021.
- Jahangir S, Eglin D, Pötter N, Khozaei Ravari M, Stoddart MJ, **Samadikuchaksaraei A**, Alini M, Baghaban Eslaminejad M, Safa M. Inhibition of hypertrophy and improving chondrocyte differentiation by MMP-13 inhibitor small molecule encapsulated in alginate-chondroitin sulfate-platelet lysate hydrogel. *Stem Cell Res Ther* 11(1): 436, doi: 10.1186/s13287-020-01930-1, 2020.
- Brouki Milan P, Lotfibakhshaiesh N, Joghataie MT, Ai J, Pazouki A, Kaplan DL, Kargozar S, Amini N, Hamblin MR, Mozafari M, **Samadikuchaksaraei A**. Accelerated wound healing in a diabetic rat model using decellularized dermal matrix and human umbilical cord perivascular cells. *Acta Biomater* 45: 234-246, 2016.
- Samadikuchaksaraei A**, Gholipourmalekabadi M, Erfani Ezadyar E, Azami M, Mozafari M, Johari B, Kargozar S, Jameie SB, Korourian A, Seifalian AM. Fabrication and *in vivo* evaluation of an osteoblast-conditioned nano-hydroxyapatite/gelatin composite scaffold for bone tissue regeneration. *J Biomed Mater Res A* 104(8): 2001-2010, 2016.

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Gholipourmalekabadi M, Mozafari M, Salehi M, Seifalian A, Bandehpour M, Ghanbarian H, Urbanska AM, Sameni M, **Samadikuchaksaraei A**, Seifalian AM. Development of a cost-effective and simple protocol for decellularization and preservation of human amniotic membrane as a soft tissue replacement and delivery system for bone marrow stromal cells. *Adv Healthc Mater* 4(6): 918-926, 2015.

Diba M, Kharaziha M, Fathi MH, Gholipour Malekabadi M, **Samadikuchaksaraei A**. Preparation and characterization of polycaprolactone/forsterite nanocomposite porous scaffolds designed for bone tissue regeneration. *Compos Sci Technol* 7(6): 716-723, 2012.

**Samadikuchaksaraei A**, Cohen S, Isaac K, Rippon HJ, Polak JM, Bielby RC, Bishop AE: Derivation of distal airway epithelium from human embryonic stem cells. *Tissue Engin* 12(4): 867-875, 2006.