

Mohammad Reza Nourani is employed as a Professor and Chairman, of Nano Biotechnology Research Center at the [Baghyatollah Medical Sciences University \(BMSU\)](#) where he has been teaching and research since 1993. He earned his B.Sc. degree in Physiotherapy from [Tehran University of Medical Sciences \(1988\)](#), and M.Sc. degree from [Tarbiat Modares University \(1993\)](#), and Ph.D. Degree in Cell Biology-Histology(2007) at Graduate school of Medical Sciences of [Tohoku University](#) at Sendai-Japan.



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### Academical Degrees:

- Postdoc:**           **2015:** Fellowship in biomaterial in dentistry , Nagasaki University\_-Japan  
**2014:** Fellowship in Tissue Engineering and Regenerative Medicine  
Nagasaki University -Japan  
**2011**           International laboratory animal course. Netherlands-Utrecht
- Post graduate:**   **2003-2007** Ph.D. Degree in Cell Biology-Histology at Graduate school  
of medical Sciences of [Tohoku University](#) , Japan.  
**1989-1993** : Msc. Anatomical Sciences , Tarbiat Modares University,  
Tehran IRAN
- Graduate:**           **1985-1988** : BSc. Physiotherapy , Tehran University , Tehran IRAN

### Administrative Positions :

- 2021- present** Prof and President of Noora Technology Park  
**2021-present** Funder of Exir Accelerator in TERM  
**2016-present** Prof. and Faculty member of Tissue engineering division  
**2017-2021** Prof and chairman of Nano Biotechnology Research Center  
**2016-2017** Prof. and Chair of genomic Division at BMSU  
**2011-2016** Associate professor , Chemical Injury research Center of BMSU  
**2007-2011** Assistant professor , Chemical Injury research Center of BMSU  
**1993-2003** Faculty member and lecturer of Anatomical Sciences Dept.  
**1992-2003** Head of Computer & Statistical Center of BMS Univ.  
**1989-1991** Chairman of the research department of BMS

### Teaching Experience:

- 2020-present** Entrepreneurship for health system  
**2014-present** Have been teaching tissue engineering to dentistry resident, Phd student of tissue engineering  
**2007-present** Have been teaching cell and molecular biology, Tissue engineering course to post graduate students  
**2003-2007** Have been teaching Histology and neuroanatomy to medical students as assistant teacher , Tohoku University Sendai-Japan  
**1993-2003** Instructor, Have been teaching Head&Neck ; Trunk ; Exremities

1993-2003 Anatomy To Students of Medicine and Nursing at BMSU  
Instructor Have been teaching Histology and Anatomy To Medical Students at BMSU

**Languages :**

**English :** Competence in reading and writing ; Basic spoken competence

**Persian :** Competence in Writing Reading and Speaking

**Japanese:** Poor in speaking and reading, writing

**Articles in international journals:**

1. M Fathi, M Samadi, S Abbaszadeh, MR Nourani< Fabrication and characterization of multifunctional bio-safe films based on Carboxymethyl Chitosan and Saffron Petal Anthocyanin Reinforced with Copper Oxide Nanoparticles for ...., Journal of Polymers and the Environment, 1-12- 2022
2. H Manoochehri, M Ghorbani, M Moosazadeh Moghaddam, MR Nourani, ... Strontium doped bioglass incorporated hydrogel-based scaffold for amplified bone tissue regeneration, Strontium doped bioglass incorporated hydrogel-based scaffold for amplified bone tissue regeneration, Scientific Reports 12 (1), 1-18- 2022
3. ST Nasab, NH Roodbari, V Goodarzi, HA Khonakdar, MR Nourani, Nanobioglass enhanced polyurethane/collagen conduit in sciatic nerve regeneration, Journal of Biomedical Materials Research Part B: Applied Biomaterials 110 (5 ... 2022
4. S Tofighi Nasab, NH Roodbari, V Goodarzi, HA Khonakdar, K Mansoori, ... Novel electrospun conduit based on polyurethane/collagen enhanced by nanobioglass for peripheral nerve tissue engineering, Journal of Biomaterials Science, Polymer Edition 33 (6), 801-822- 2022
5. N Esfahanizadeh, M Montazeri, MR Nourani, M Harandim Use of bioactive glass doped with magnesium or strontium for bone regeneration: A rabbit critical-size calvarial defects study. Dental Research Journal 2022
6. MJ Fatemi, SN Garagheshlagh, T Ghadimi, S Jamili, MR Nourani, ... Investigating the Impact of Collagen-Chitosan Derived from Scomberomorus Guttatus and Shrimp Skin on Second-Degree Burn in Rats Model, Regenerative Therapy 18, 12-20- 2021
7. N Dehnavi, K Parivar, V Goodarzi, A Salimi, K Mansoori, MR Nourani, Regeneration of sciatic nerve injury by polyglycolic acid/collagen/bioglass conduit. Journal of Applied Biotechnology Reports 8 (3), 283-292- 2021
8. A Valanezhad, S Shahabi, A Hashemian, S Davaie, MR Nourani, S Abe, ...Preparation of a PLGA-coated porous bioactive glass scaffold with improved mechanical properties for bone tissue engineering approaches. Regenerative Engineering and Translational Medicine 7 (2), 175-183- 2021
9. S Naderi Gharegheshlagh, MJ Fatemi, S Jamili, MR Nourani, AM Sharifi, ... A dermal gel made of Rutilus kutum skin collagen-chitosan for deep burn healing, International Journal of Peptide Research and Therapeutics 27 (1), 317-328 - 2021
10. V Kheiri Mollaqaqsem, A Asefnejad, MR Nourani... Incorporation of graphene oxide and calcium phosphate in the PCL/PHBV core-shell nanofibers as bone tissue scaffold - Journal of Applied Polymer Science, 2021
11. S Naderi Gharagheshlagh, MJ Fatemi, S Jamili... Isolation and characterization of acid-soluble collagen from the skin of Rutilus Frisii Kutum (Kamensky) of the Caspian Sea - Iranian Journal of Fisheries Sciences, 2020
12. BF Forootan, AA Imani Fooladi, H Tebyanian... Characterization and investigation of antibacterial activity of injectable hydroxyapatite-alginate hydrogel, - Journal of Applied Biotechnology Reports, 2020
13. M Bayrami, A Bayrami, A Habibi-Yangjeh... Biologically-synthesised ZnO/CuO/Ag nanocomposite using propolis extract and coated on the gauze for wound healing applications - IET nanobiotechnology, 2020

14. SN Gharehgheshlagh, MJ Fatemi, S Jamili... A Dermal Gel Made of Rutilus Kutum Skin Collagen-Chitosan for Deep Burn Healing, - International Journal of Peptide Research and ..., 2020
15. A Saadati, H Hesarikia, MR Nourani, RA Taheri ,Electrophoretic deposition of hydroxyapatite coating on biodegradable Mg–4Zn–4Sn–0.6 Ca–0.5 Mn alloy, - Surface Engineering, 2020
16. A Golchin, MR Nourani , Effects of bilayer nanofibrillar scaffolds containing epidermal growth factor on full-thickness wound healing, A Golchin, MR Nourani - Polymers for Advanced Technologies, 2020
17. M Mokhtarian, MR Nourani, N Esfahanizadeh ,Effect of doxycycline-bioglass treatment on calvarial bone defect in rats: A histological study, - Tropical Journal of Pharmaceutical Research, 2020
18. A Najafi, RA Taheri, M Mehdipour, F Martínez-Pastor... , Improvement of post-thawed sperm quality in broiler breeder roosters by ellagic acid-loaded liposomes - Poultry science, 2019, vol 98, issue 1, 440-446
19. A Karami, H Tebyanian, A Barkhordari, E Motavallian... Healing effects of ointment drug on full-thickness wound,- CR Acad Bulg Sci, 2019, vol 72, issue 1, 123-9
20. H Salehzadeh, M Ebrahemzadih, MR Nourani... ,The Biochemical Effects of Lead Concentration on Oxidative Stress Parameters in Workers, - Journal of Biochemical Technology, 2019, vol 10, issue 1. 39
21. H Salehzadeh, M Ebrahemzadih, MR Nourani... The impact of lead contamination on psychiatric disorders and quality of life, - Journal of Biochemical Technology, 2019, vol10, issue 2, pp18
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23. RS Soufdoost, M Yazdani, E Tahmasebi In vitro and in vivo evaluation of novel Tadalafil/b-TCP/Collagen scaffold for bone regeneration: A rabbit critical-size calvarial defect study – Trauma Monthly , 2019,
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26. N Dehnavi, K Parivar, V Goodarzi, A Salimi... Systematically engineered electrospun conduit based on PGA/collagen/bioglass nanocomposites: The evaluation of morphological, mechanical, and bio-properties, - Polymers for Advanced Technologies, 2019
27. A Karami, H Tebyanian, RS Soufdoost, E Motavallian... , Extraction and Characterization of Collagen with Cost-Effective Method from Human Placenta for Biomedical Applications- World journal of plastic surgery, 2019
28. H Tebyanian, A Karami, MR Nourani, E Motavallian... Lung tissue engineering: An update, - Journal of cellular physiology, 2019
29. M Foroutan Koudehi, AA Imani Fooladi... ,Nano bioglass/gelatin scaffold enhanced by nanosilver as an antibacterial conduit for peripheral nerve regeneration, - Materials Technology, 2019
30. R Heidari, J Rashidani,..., MR Nourani CdS nanocrystals/graphene oxide-AuNPs based electrochemiluminescence immunosensor in sensitive quantification of a cancer biomarker: p53, ,2019, Biosensors and Bioelectronics 126, 7-14
31. F Mohamadi, S Ebrahimi-Barough, MR Nourani, Enhanced sciatic nerve regeneration by human endometrial stem cells in an electrospun poly ( $\epsilon$ -caprolactone)/collagen/NBG nerve conduit in rat, Artificial cells, nanomedicine, and biotechnology 46 (8), 1731-1743
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34. The Anti-biofilm Activity of Nanometric Zinc doped Bioactive Glass against Putative Periodontal Pathogens: An in vitro Study, *Biomedical Glasses* 4 (1), 95-107
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### **Books (International)**

1. Chronic obstructive pulmonary disease current concepts and practice. Edited by Kian-Chung Ong. Published by InTech. 2012. Chapter 1 : Abbas Ali Imani Fooladi, Samaneh Yazdani and Mohammad Reza Nourani, Lung and Systemic Inflammation in COPD

### **Abstracts in International congress and seminar:**

2. Mirzaei Behnaz , Valizadeh Mohadeseh ,Tavallaei Mahmood Ph.D, Nuorani Mohammad Reza, Mowla Seyed Javad Ph.D . Changes in the expression of TGF- $\beta$  variants in tissues and cells exposed to mustard gas, The first international student congress on cell and molecular medicine, Shiraz 17-19 February 2011
3. Mohadeseh Valizadeh<sup>1</sup>, Behnaz Mirzaei<sup>1</sup>, Ali Mohammadian<sup>2</sup>, Nassim Ghorbanmehr<sup>3</sup>, Mahmoud Tavalae<sup>4</sup>, Mohammad Reza Noorani, Seyed Javad Mowla<sup>3</sup> Alteration in the expression of miR-21 and miR17-92 in skin biopsies of war veterans with Sulfur mustard exposure. The first international student congress on cell and molecular medicine, Shiraz 17-19 February 2011
4. Reza Feridonzadeh<sup>1,3</sup> , Maryam Adelipour<sup>4</sup>, Abbass Ali Imani Fooladi<sup>2</sup>, Mohammad Reza Nourani. TGF $\beta$  receptors gene expression in the Eepithelum of chemical injured veterans' air way. The first international student congress on cell and molecular medicine, Shiraz 17-19 February 2011
5. Leila Mirbageri, Mohammad Reza Nourani. Immunohistochemical analysis of antioxidant molecules expression in airway epithelium of patients with Bronchiolitis Oblitran(OB) induced by Mustar gas. The first international student congress on cell and molecular medicine, Shiraz 17-19 February 2011
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9. zahra jamalpour, Mohammad reza Nourani, Alireza Asgari. An epineural conduit containing fibrin glue as scaffold enhances nerve regeneration in short nerve defects in the male rat. Anatomist 2009 - 10th Congress of European Association of Clinical Anatomy, September 2-5, 2009 in Istanbul,Turkey (Poster)
10. Mohammad Reza Nourani, Zahra Jamali, Hamid Reza Taghipour, Yuji Owada. Localization of Epidermal-type Fatty acid Binding Protein in degeneration and regeneration of sciatic nerve after crush injury in mouse. Anatomist 2009 - 10th Congress of European Association of Clinical Anatomy, September 2-5, 2009 in Istanbul,Turkey (Oral)

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13. Nourani MR, et al. "Morphological and Molecular analysis of retina under bright light exposure" 2nd seminar academic society of Iranian in Japan- Tokyo-Japan 2007 (Oral)
14. Nourani MR, "Localization of Fatty Acid Binding Protein in the retina of mouse retina", 52th Academic meeting of Tohoku/Hokkaido branch of Japanese Association of Anatomists, September 16-17, 2006 Akita-Japan. (Oral)
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2. M Mirzamani Bafghi I Fooladi, A Ali, , MR Nourani, Expression of TGF- $\beta$  variants in the airway epithelial cells exposed to Sulfur Mustard, Iranian Journal of War and Public Health 5 (4), 15-24 F, 2013
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5. Mirbagheri M, Taghipour H R, Farhadi N, Mirbagheri L, Imani Foladi AA, Nourani M R. Rapid Diagnosis of acute kidney injury (AKI) associated with cardiac surgery, using the liver type fatty acid binding protein (L-FABP) biomarker. mljgoums. 2012; 6 (1) 6 (1) :43-50 Fatemeh
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21. Nourani R “ Applying Internet in Medical research , Distance Learning” IJMM , Vol 3 No: 3 , pp 163-171 , Fall, 2001(1380)

### **Abstracts in national congress:**

22. Nourani M R et al. Expression of Glutathione S-Transferase variants in human airway wall after long term response to induced mustard gas. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
23. Nourani M R et al. Up-regulation of heme oxygenases in human airway wall after long term response to induced mustard gas. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
24. Roudkenar Habibi Mehryar<sup>2</sup> , Nourani Mohammad Reza<sup>1\*</sup>, Ebrahimi Majid<sup>1</sup>, Halabian Raheleh<sup>2</sup>, Abolfathzadeh Navid<sup>1</sup> , and Ghanei Mostafa<sup>1</sup> Neutrophil Gelatinase-Associated Lipocalin Is Up-Regulated in Human airway Epithelialum induced by sulfur mustard. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. ehran-Iran
25. Ebrahimi Majid<sup>1</sup> , Nourani Mohammad Reza<sup>1</sup> Shohrati Majid<sup>1</sup> , Roudkenar Habibi Mehryar<sup>2</sup>, Panahi Yunes<sup>1</sup> and Ghanei Mostafa<sup>1</sup> .Role of metallothionein-1A in patients with COPD induced by Sulfur mustard exposure. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
26. Halabian Rahele, Nourani Mohammad Reza<sup>1\*</sup>, Ebrahimi Majid<sup>1</sup>, Roudkenar Habibi Mehryar<sup>2</sup>, Shohrati Majid, Panahi Yunes<sup>1</sup> and Ghanei Mostafa<sup>1</sup>. Superoxide Dismutases in the Human Lung induced by Mustard gas. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran

27. Imani fouladi AA. Sattari M. Nourani MR. Study of T-cell stimulation and cytokine release induced by staphylococcal enterotoxin type B and monophosphoryl lipid A . Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
28. Shohrati M, Ghanei M, Nourani M. Structure of chemical emergencies and triage of chemical veterans. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
29. Shohrati. M, Ghanei M., Nourani M. A clinical profile-oriented approach in diagnosis of chemical warfare agents. Iranian Congress of Toxicology and poisoning may 18-20 2009. Shahid beheshti medical sciences univ. Tehran-Iran
30. Nourani MR, et al, Demonstration of cells under degeneration in antral atretic follicles of mouse ovary by employing immunohistochemical markers for Adipocyte-type Fatty Acid Binding Protein ( A-FABP) and TUNEL.7th Iranian Congress of Anatomical Sciences (ICAS), 10 and 12 May 2006, Kashan, Iran. ( Oral Presentation)
31. Nourani MR. ; Bahadoran H. “ Development of lens in Chicken Embryo” Apply Biology Congress, Mashhad Azad University , March 2001
32. Kaka Gh. ; Nourani MR. “ The Digestive System 3 dimensional Nourani R. ; Mirshafiee gh. “Electronical Atlas of Histology “ Apply Biology congress , Mashhad Azad University , March 2001
33. Nourani MR. et al , “ Tissue processing and staining in Biology “ Apply Biology Congress , Mashhad Azad University , March 2001
34. Nourani MR. “ Histology Staining Database “ 2nd Iranian congress of Anatomy , Isfahan Medical Sciences University, May 6 –8 March, 1995 ( Poster).
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37. Nourani MR. ; Bahadoran H. “ Development of lens in Chicken Embryo” Apply Biology Congress, Mashhad Azad University , March 2001
38. Nourani MR. “ The Experimental survey of the Early development of eye In chick Embryo” Annual Iranian Congress of Ophthalmology, Iran University of Medical Sciences & Health Services , Tehran 21-24 November 1994 ,(oral)
39. Nourani MR. “ applying computer in Anatomy” 1st Iranian congress of Anatomy , Kerman Medical Sciences University, 30 April-3May 1993 (poster and Software)
- 40.

### **PROFESSIONAL MEMBERSHIP:**

Tissue engineering and regenerative medicine international society  
 Iranian Tissue engineering and regenerative medicine  
 Iranian Society of Anatomists

### **Interest research fields:**

1. Bone tissue regeneration in Tissue engineering
2. Peripheral nerve regeneration in Tissue engineering
3. Skintissue regeneration in Tissue engineering
4. Morphological and functional analysis of the Fatty Acid Binding Proteins
5. Molecular and ultrastructure analysis of degeneration and regeneration of peripheral nerve (Sciatic)
6. Molecular mechanisms and morphological analysis of retina
7. Molecular mechanism of COPD induced by inhalation harmful agents
8. Molecular mechanism of chronic skin lesion induced by sulfur mustard.

### **Experiences:**

- 1- Transmission electron microscopic analysis(TEM):

- 2- Immunohistochemistry
- 3- Molecular analysis of cell and tissue ( RNA extraction, cDNA preparation, PCR, Rt-PCR, Electrophoresis, and .....)
  1. Microarray procedure
  2. Scaffold formation with different biomaterials
  3. Cell and molecular signaling
  4. Stem cells differentiation
  5. Application of tissue engineering in orthopedic and dentistry
  6. Cell culture
  7. Scaffold fabrication and characterization