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Personal Data:

Name: Hossein Naderi-Manesh
Date of birth: August 26, 1957
Place of birth: Iran

Education:

Engineering.	University of California (UCSB, UCB)	1976-1978
B.Sc. In Biophysics	University of California (Berkeley, UCB)	1979-1983
MSc & PhD in Biophysics	University of California Berkeley (UCB) and UCSF (Med. Sch.)	1983-1988

Fellowship and Competitive awards:

UC Santa Barbara foreign student's scholarship	1976-1977
UC Berkley foreign student fellowship	1979-1980
UC San Francisco Research fellowship	1984-1988
Graduate student scholarship (Ministry of Higher Education Iran)	1983-1988
Professor of the year (TMU)	1992
Guest Research Fellow Bioscience Center Frankfort Germany (3 months)	2000
National Award in Biotechnology, (TMU) (Co-researcher)	2001
National Award in Biotechnology, (TMU)	2003
Distinguished Researcher of the year (TMU)	2005
Second Place in Hi-Tech, 12th Razi Research Festival (Coauthor)	2006
First place in Basic Sciences, 13th Razi medical sciences research festival (Co-author)	2007
Distinguished Researcher of the year (Tehran Province)	2007
Distinguished Researcher of the year in Biotechnology (National)	2012

Administrative Experiences:

Establishing MSc programs in Biophysics, TMU	1995
Establishing PhD programs in Biophysics, TMU	2000
Establishing MSc programs in Biochemistry (TMU)	1992
Establishing PhD programs in Biochemistry (TMU)	1998
Establishing PhD program in Nano-biotechnology (TMU)	2006
Member of Establishing Committee of Biophysics PhD program (Tehran University- IBB)	

Graduate student Training:

Supervisor of four Post-doctoral researcher.
Supervisor of more than 30 PhD students and 50 MSc students.
Advisor of more than 25 PhD students and 40 MSc students.
Supervisor of 3 international PhD students.

Professional experiences:

Chairman of the Board, Saman daroo 8 Pharmaceutical Company (biotech-pharma. corp.)	2016- Now
Chairman of the Board Daropakhesh pharmaceutical corp.	2011-2013
Deputy Minister of Higher Education	2009-2013
Deputy Chancellor for Educational affairs, TMU	2005 -2009
Dean of Faculty of Sciences, TMU	1996-2005
Head of the Department of Biotechnology and Advanced Technologies, Ministry of Industry.	2001-2007
Director of National high field NMR facility, TMU	1997- Now
Dean of educational affairs, Faculty of sciences, TMU	1990-1994
Director of TMU Computer Centre	1991-1993
Member of the Board of the Iranian Biological Society	1999-2004
Member of the Curriculum Planning Department of the Ministry of Higher Education.	1994- 2005
Member of higher committee of planning Ministry of Higher Education.	2005-2009
Member of the founding committee of the Iranian Proteomics Association.	2004
Member of Biotechnology Science National Hub	2005
Head of the Center for Biological Sciences Studies and Policy making (TMU)	2013-2015
Director of bioactive compound Department of Interdisciplinary Sciences and Technologies Faculty.....	2020-now
Implementer of a research core project entitled Development of nanomaterials for biosensors in Microfluidic frameworks at Tarbiat Modares University.....	2018-now
Chairman of the Board, Accelerator (Novin Zist Daru) approved by the Department of Science and the Ministry of Health	2018-now
Head of Tarbiat Modarres University Science and Technology Park.....	2022

Invited programs:

NMR program Tokyo Geol Company.	1995
NMR program Switzerland (Zurich) and Germany (Karlsruhe).	1997
X-ray crystallography and proteomics special period of Bremen, Germany.	1999
Visiting Professor at the University of Frankfurt, Germany.	2001

Research Plans:

- Separation, discharge, sequence and cloning of heat-resistant enzymes in native Iranian native microorganisms and their expression in a suitable host for providing valuable economic enzymes (2002 Ministry of Science, Research and Technology-Division of Article 45)
- Biochemical and Genetic Study of Different type of Economic Aquaculture and Produce their Heritage Challenge Certificate (President - Presidential Planning and Supervision Organization)
- Investigating the Properties of Self -Organized Molecules in the Construction of Biological Chips and Protein Arrays and Creating Biological Applications (Ministry of Industry and Mines of the Modern Industries Center of 2005)
- A joint design of oral drug compounds including 5-aminosyllylic acid (5-ASA) attached to nano-particle hemoglobin with dedicated release in colon with liver and gastrointestinal institute of Shahid Beheshti University
- Joint design of semi -industrial production of natural anti -oxide from fresh pistachio skin in the group of bioactive compounds
- Joint design and purification of glycosaminoglicanic compounds from aquatic lesions and introduction to the Casmatic Industry and Nutrition-Religious Supplements in the bioactive compounds Group
- Microfluidic chip design aimed at capturing stem cells and application in rear -blooded medicine –
- Eczema and fading of stains
- Signal reinforcement kit design in lateral current immunois steps
- Bio -scrutinized scheme for the treatment of various diseases (diabetics, skin diseases)

Products manufactured at Danesh Bannan Company

- Kuwavid Detection Kit
- Viral RNA Extraction Kit
- Virus transmission environment
- Injectable hydrogel for 3D cell cultivation
- Facial masks in cosmetics in different types

Book and Chapter of books:

- Conformations and forces in Protein folding Edited by Barry T. Nall and Ken A. Dill 1991, American Association for the Advancement of Science (AAAS).
- Aptamer or DNA/RNA Antibodies-therapeutics and diagnostic application (in Persian) 2006, Kholus publish. www.kholus.com
- Fundamentals of Biophysics; Biophysics of Protein, Nucleic Acids and Spectroscopy, 1st & 2nd editions, 2016 (Tarbiat Modares Uni. Press)
- Biophysics. (In Persian). 2004, Mostafa Rezaei Tavirani, Reza Yousefi, Bijan Ranjbar, Hossein Naderi-Manesh. (Sanjesh Press)
- Basic Sciences: a spectrum of views. Vol.1 N. Davari Ardakani, A. Mahdavi Damghani (In Persian) .2013 (Chapter contr.) (Sheikh Baha-ei Isfahan Uni. Press)
- National strategic plan of higher education for development of marine science and technology. (In Persian). 2013, (Head of working group). (National Institute of Oceanography and Atmospheric Sciences Press)
- Smart Biometers Chapter, 2022: Recent advances and future paths in biometrical book in 2050

Patents:

- Natriuretic Peptide from Snake Venom Johann Schaller, Current U.S. Class 530/324.
- Use of Brevinin-2R in the treatment of cancer M. Los, S. Ghavami, A. Asoodeh, H. Naderi-Manesh (Wo/2006/128289), International Application no.: pct./ca2006/000886
- Design and synthesis for the first time anti -cancer and antimicrobial BRC and BRD Nano Peptides "Declaration Number: 389060113, 2011
- Design and manufacture of Nano -Paklie Taxel Drug System Based on Polyurethane Polyurethane Blue Polyurethane Miscele "Declaration Number:389100366, 2011
- "Design and synthesis of antimicrobial and antimicrobial peptide (TEMPY)" Declaration Number: 389120915, 2012
- "Synthesis of a unit of oral drug compound containing 5-aminosyllylic acid and nano-particle hemoglobin with medication and controlled release in the colon" Declaration Number:140050140003001860

Genes and Peptides Submission:

Organism, Gene Name, desired Seq., GI number.

1. Bacillus sp. WHO alpha-amylase gene, complete cds gi|156148259|gb|EU029997.1|[156148259]
2. Bacillus sp. HR03 16S ribosomal RNA gene, partial sequence gi|82754704|gb|DQ285295.1|[82754704]
3. Bacillus sp. HR-08 16S ribosomal RNA gene, partial sequence gi|68349534|gb|DQ092500.1|[68349534]
4. Bacillus sp. WHO 16S ribosomal RNA gene, partial sequence gi|115521851|gb|DQ973298.1|[115521851]
5. Bacillus sp. KR-8104 alpha-amylase Precursor, gene, Partial cds gi|56788275|gb|AY841124.1|[56788275]
6. Geobacillus sp. LH8 16S ribosomal RNA gene, partial sequence gi|76009545|gb|DQ192572.1|[76009545]
7. Geobacillus sp. LH8 16S ribosomal RNA gene, partial sequence gi|102415765|gb|DQ521402.1|[102415765]
8. Geobacillus sp. LH10 16S ribosomal RNA gene, partial sequence gi|102415742|gb|DQ521401.1|[102415742]
9. Geobacillus sp. LH6 16S ribosomal RNA gene, partial sequence gi|102415723|gb|DQ521400.1|[102415723]
10. Geobacillus sp. LH5 16S ribosomal RNA gene, partial sequence gi|102415703|gb|DQ521400.1|[102415703]
11. G. Thermodenitrificans st. LH8 alpha amylase gene, partial cds gi | 162290028 | gb | EU326031.1 | [162290028]
12. Hottentotta saulcyi toxin1 mRNA, partial cds gi|59894803|gb|AY770502.1|[59894803]
13. Lampyrus turkestanicus luciferase mRNA, complete cds gi|52631874|gb|AY742225.1|[52631874]
14. Long neurotoxin 1 (Ntx-1) (Neurotoxin I) gi|128934|sp|P01382.1|NXL1_NAJOX[128934]
15. Natriuretic peptide PNP gi|54036170|sp|P82972.1|NFNP_PSEPC[54036170]
16. Thermus sp. GH5 16s rib. RNA gene, partial sequence gi|115521850|gb|DQ973297.1|[115521851]

Protein Submissions:

Entry	Protein Names	Organism	Length
VNP_PSEPC	Natriuretic peptide PNP	Pseudocerastes persicus (Persian horned viper) (False horned viper)	37
BR2R_PELRI	Brevinin-2R	Pelophylax ridibundus (Marsh frog) (Rana ridibunda)	25
NXL1_NAJOX	Alpha-elapitoxin-Nno2a	Naja oxiana (Central Asian cobra) (Oxus cobra)	73
Q5UFR2_9COLE	Luciferase	Lampyrus turkestanicus (Iranian firefly)	547
Q5MB94_9BACI	Alpha-amylase	Bacillus sp. KR-8104	442
B3GQD0_9BACI	Alpha-amylase	Bacillus sp. KR-8104	659
B3VH91_9DEIN	Methylglyoxal synthase	Thermus sp. GH5	132
A9UJ60_GEOTD	Alpha amylase	Geobacillus thermodenitrificans	549
A7U965_9BACI	Alpha-amylase	Bacillus sp. WHO	531
Q281W0_9BACI	DNA polymerase	Geobacillus sp. MKK-2005	876
E0WVU4_MNELE	Mnemiopsin 1	Mnemiopsis leidyi (Sea walnut) (Warty comb jellyfish)	206

List of Publications:

1. Hybrid Microfluidic Device for High Throughput Isolation of Cells Using Aptamer Functionalized Diatom Frustules, R Mohammadi, M Asghari, M Colombo, Z Vaezi, D Richards, S Stavrakis, **H Naderi-Manesh**, CHIMIA, **2022**, 76 (7-8), 661-661
2. Differentiation of PC12 cell line into neuron by Valproic acid encapsulated in the stabilized core-shell liposome-chitosan Nano carriers, AH Abd Kelkawi, H Hashemzadeh, Z Pashandi, T Tiraihi, **H Naderi-Manesh**, International Journal of Biological Macromolecules, **2022**, 210, 252-260
3. Extraction and identification a novel bioactive peptide from white grub larvae hydrolysate, A Khajepour-Zaveh, A Asoodeh, **H Naderi-Manesh**, Cellular and Molecular Research (Iranian Journal of Biology), 2022 35 (1), 1-15
4. Hemoglobin bio-adhesive nanoparticles as a colon-specific delivery system for sustained release of 5-aminosalicylic acid in the effective treatment of inflammatory bowel disease, Z Vaezi, HA Aghdaei, M Sedghi, R Mahdavian, M Molakarimi, N Hashemi, **H Naderi-Manesh**, International Journal of Pharmaceutics, **2022**, 616, 121531
5. Design and simulation of the liposomal model by using a coarse-grained molecular dynamics approach towards drug delivery goals, J Parchekani, A Allahverdi, M Taghdir, H Naderi-Manesh, Scientific Reports, 2022, 12 (1), 1-15
6. Temperature dependent physicochemical characteristics, antibacterial and cytotoxic potential of iron quantum cluster templated hydroxyapatites, N Hashemi, Z Vaezi, S Masoumi, SS Mohammadi, R Mahdavian, H Naderi-Manesh, Ceramics International, 2022, 48 (3), 4200-4207
7. Fingerprinting Metabolic Activity and Tissue Integrity of 3D Lung Cancer Spheroids under Gold Nanowire Treatment, H. Hashemzadeh, AHA Kelkawi, A Allahverdi, M Rothbauer, P Ertl, H Naderi-Manesh. Cells, 2022, 11 (3), 478
8. Fluorescence sensing and imaging with carbon-based quantum dots for early diagnosis of cancer: A review, R Mohammadi, H Naderi-Manesh, L Farzin, Z Vaezi, N Ayarri, Journal of Pharmaceutical and Biomedical Analysis, 2022, 114628
9. Improvement of anti-biofilm activities via co-delivery of curcumin and gentamicin in lipid-polymer hybrid nanoparticle, S Sadeghi Mohammadi, Z Vaezi, H Naderi-Manesh, Journal of Biomaterials Science, Polymer Edition, 2022, 33 (2), 174-196
10. A simple 2-step purification process of α -amylase from Bacillus subtilis: Optimization by response surface methodology, E Ataollahi, H Naderi-Manesh, R Roostaazad, S Yeganeh, International Journal of Biological Macromolecules, 2021, 192, 64-71
11. Zepto molar miRNA-21 detection in gold Nano-islands platform toward early cancer screening, J Parchekani, H Hashemzadeh, A Allahverdi, H Siampour, S Abbasian, H Naderi-Manesh, Sensing and Bio-Sensing Research, 2021, 34, 100449
12. Surface modification in microfluidic platform to miR-21 and miR-486 detection from lung cancer cell, A Allahverdi, H Naderi-Manesh, M Sedghi, A Naderi Sohi, F Kouhkan, Cellular and Molecular Research (Iranian Journal of Biology), 2021, 34 (3), 380-396
13. Microfluidic investigation of the effect of graphene oxide on mechanical properties of cell and actin cytoskeleton networks: Experimental and theoretical approaches, M. Ghorbani, H. Soleymani, H. Hashemzadeh, S. Mortezaazadeh, M. Sedghi, S. Shojaeilangari, A. Allahverdi, H. Naderi-Manesh, Scientific reports, 2021, 11 (1), 1-13
14. Design and Synthesis of Polyacrylic Acid/Deoxycholic Acid-Modified Chitosan Copolymer and A Close Inspection of Human Growth Hormone-Copolymer Interactions: An Experimental and computational study, S Khanmohammadi, F Mehrnejad, Z Lotfi-Sousefi, M Yahyaei, **H Naderi-Manesh**, Colloids and Surfaces B: Biointerfaces, 2021, 206, 111956
15. Morphometry and Modeling of Label-Free Human Melanocytes and Melanoma Cells, S Tavaddod, B Shojaedin-Givi, M Mahmoudi-Rad, **H Naderi-Manesh**, Cell biochemistry and biophysics, 2021, 79 (2), 253-260
16. A combined microfluidic deep learning approach for lung cancer cell high throughput screening toward automatic cancer screening applications, H Hashemzadeh, S Shojaeilangari, A Allahverdi, M Rothbauer, P Ertl, **H Naderi-Manesh**, Scientific Reports, 2021, 11 (1), 1-10

17. The influence of laser frequency and groove distance on cell adhesion, cell viability, and antibacterial characteristics of Ti-6Al-4V dental implants treated by modern fiber ... ,N Eghbali, H Naffakh-Moosavy, SS Mohammadi, **H Naderi-Manesh**, *Dental Materials*, 2021, 37 (3), 547-558
18. Investigation of Atrial Natriuretic Peptide as A Competitive Inhibitory Candidate Against Wnt/ β -Catenin Signalling: A Molecular Dynamics Approach,N Dehghanbanadaki, M Taghdir, **H Naderi-Manesh**, *International Journal of Peptide Research and Therapeutics*,2021, 27 (1), 353-363
19. Synthesis, characterization, structural studies, DNA interaction, and cytotoxic studies of palladium (II) mixed-ligand complexes containing 2, 2'-bipyridine, 5, 6-dimethyl-1 ...M Fatahian-Nezhad, R Alizadeh, SS Mohammadi, M Tohidlou, **Naderi-Manesh H**, *Inorganica Chimica Acta*, 2021,514, 119953
20. Siampour H, Abbasian S, Moshaii A, Omidfar K, Sedghi M, **Naderi-Manesh H**. Seed-mediated Electrochemically Developed Au Nanostructures with Boosted Sensing Properties: An Implication for Non-enzymatic Glucose Detection. *Scientific Reports*. 2020;10(1).
21. Vaezi Z, Azizi M, Sadeghi Mohammadi S, Hashemi N, **Naderi-Manesh H**. A novel iron quantum cluster confined in hemoglobin as fluorescent sensor for rapid detection of Escherichia coli. *Talanta*. 2020;218.
22. Esfandyari J, Shojaedin-Givi B, Hashemzadeh H, Mozafari-Nia M, Vaezi Z, **Naderi-Manesh H**. Capture and detection of rare cancer cells in blood by intrinsic fluorescence of a novel functionalized diatom. *Photodiagnosis and Photodynamic Therapy*. 2020;30.
23. Hashemi N, Vaezi Z, Khanmohammadi S, Naderi Sohi A, Masoumi S, Hruschka V, Wolbank S, Redl H, Marolt Presen D, **Naderi-Manesh H**. A novel fluorescent hydroxyapatite based on iron quantum cluster template to enhance osteogenic differentiation. *Materials Science and Engineering C*. 2020;111.
24. Hashemzadeh H, Allahverdi A, Sedghi M, Vaezi Z, Moghadam TT, Rothbauer M, Fischer MB, Ertl P, **Naderi-Manesh H**. PDMS nano-modified scaffolds for improvement of stem cells proliferation and differentiation in microfluidic platform. *Nanomaterials*. 2020;10(4).
25. Rezaei N, Mehrnejad F, Vaezi Z, Sedghi M, Asghari SM, **Naderi-Manesh H**. Encapsulation of an endostatin peptide in liposomes: Stability, release, and cytotoxicity study. *Colloids and Surfaces B: Biointerfaces*. 2020;186.
26. Hashemzadeh H, Allahverdi A, Ghorbani M, Soleymani H, Kocsis A, Fischer MB, Ertl P, **Naderi-Manesh H**. Gold nanowires/fibrin nanostructure as microfluidics platforms for enhancing stem cell differentiation: Bio-AFM study. *Micromachines*. 2020;11(1).
27. Mehrdad-Vahdati B, Pourhashem S, Sedghi M, Vaezi Z, Shojaedin-Givi B, Rashidi A, **Naderi-Manesh H**. A novel aspect of functionalized graphene quantum dots in cytotoxicity studies. *Toxicology in Vitro*. 2019;61.
28. Khatti T, **Naderi-Manesh H**, Kalantar SM. Polypyrrole-Coated Polycaprolactone-Gelatin Conductive Nanofibers: Fabrication and Characterization. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*. 2019;250.
29. Sheykhi E, Sajad B, Tavaddod S, **Naderi-Manesh H**, Roostaie N. Tuning fluorophore excitation in a total-internal-reflection-fluorescence microscopy. *Applied Optics*. 2019;58(29):8055-60.
30. Shamsipur M, Chabok A, Molaabasi F, Seyfoori A, Hajipour-Verdom B, Shojaedin-Givi B, Sedghi M, **Naderi-Manesh H**, Yeganeh-Faal A. Label free phosphate functionalized semiconducting polymer dots for detection of iron(III) and cytochrome c with application to apoptosis imaging. *Biosensors and Bioelectronics*. 2019;141.
31. Mehralitabar H, Taghdir M, **Naderi-Manesh H**. A combination of bioactive and nonbioactive alkyl-peptides form a more stable nanofiber structure for differentiating neural stem cells: a molecular dynamics simulation survey. *Journal of Biomolecular Structure and Dynamics*. 2019;37(13):3434-44.
32. Soleymani H, Ghorbani M, Allahverdi A, Shojaeilangari S, **Naderi-Manesh H**. Activation of human insulin by vitamin E: A molecular dynamics simulation study. *Journal of Molecular Graphics and Modelling*. 2019;91:194-203.
33. Sadeghi Mohammadi S, Vaezi Z, Shojaedin-Givi B, **Naderi-Manesh H**. Chemiluminescent liposomes as a theranostic carrier for detection of tumor cells under oxidative stress. *Analytica Chimica Acta*. 2019;1059:113-23.
34. Mortezaazadeh S, Jamali Y, **Naderi-Manesh H**, Lyubartsev AP. Implicit solvent systematic coarse-graining of dioleoylphosphatidylethanolamine lipids: From the inverted hexagonal to the bilayer structure. *PLoS one*. 2019;14(4).

35. Khatti T, **Naderi-Manesh H**, Kalantar SM. Application of ANN and RSM techniques for modeling electrospinning process of polycaprolactone. *Neural Computing and Applications*. 2019;31(1):239-48.
36. Molakarimi M, Gorman MA, Mohseni A, Pashandi Z, Taghdir M, **Naderi-Manesh H**, Sajedi RH, Parker MW. Reaction mechanism of the bioluminescent protein mnemiopsin1 revealed by X-ray crystallography and QM/MM simulations. *Journal of Biological Chemistry*. 2019;294(1):20-7.
37. Ghorbani M, Soleymani H, Allahverdi A, Shojaeilangari S, **Naderi-Manesh H**. Effects of natural compounds on conformational properties and hairpin formation of amyloid- β 42 monomer: docking and molecular dynamics simulation study. *Journal of Biomolecular Structure and Dynamics*. 2019.
38. Assareh E, Mehrnejad F, Mansouri K, Rastaghi ARE, **Naderi-Manesh H**, Asghari SM. A cyclic peptide reproducing the α 1 helix of VEGF-B binds to VEGFR-1 and VEGFR-2 and inhibits angiogenesis and tumor growth. *Biochemical Journal*. 2019;476(4):645-63.
39. Hosseini S, **Naderi-Manesh H**, Vali H, Baghaban Eslaminejad M, Azam Sayahpour F, Sheibani S, Faghihi S. Contribution of osteocalcin-mimetic peptide enhances osteogenic activity and extracellular matrix mineralization of human osteoblast-like cells. *Colloids and Surfaces B: Biointerfaces*. 2019;173:662-71.
40. Sohi AN, **Naderi-Manesh H**, Soleimani M, Yasaghi ER, Manjili HK, Tavaddod S, Nojehdehi S. Synergistic effect of co-immobilized FGF-2 and vitronectin-derived peptide on feeder-free expansion of induced pluripotent stem cells. *Materials Science and Engineering C*. 2018;93:157-69.
41. Albukhaty S, **Naderi-Manesh H**, Tiraihi T, Sakhi Jabir M. Poly-l-lysine-coated superparamagnetic nanoparticles: a novel method for the transfection of pro-BDNF into neural stem cells. *Artificial Cells, Nanomedicine and Biotechnology*. 2018;46(sup3):S125-S32.
42. Shamsipur M, Molaabasi F, Sarparast M, Roshani E, Vaezi Z, Alipour M, Molaei K, **Naderi-Manesh H**, Hosseinkhani S. Photoluminescence Mechanisms of Dual-Emission Fluorescent Silver Nanoclusters Fabricated by Human Hemoglobin Template: From Oxidation- and Aggregation-Induced Emission Enhancement to Targeted Drug Delivery and Cell Imaging. *ACS Sustainable Chemistry and Engineering*. 2018;6(8):11123-37.
43. Yahyaei M, Mehrnejad F, **Naderi-Manesh H**, Rezayan AH. Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. *Carbohydrate Polymers*. 2018;191:191-7.
44. Sohi AN, **Naderi-Manesh H**, Soleimani M, Mirzaei S, Delbari M, Dodel M. Influence of Chitosan Molecular Weight and Poly(ethylene oxide): Chitosan Proportion on Fabrication of Chitosan Based Electrospun Nanofibers. *Polymer Science - Series A*. 2018;60(4):471-82.
45. Manjili HK, Ma'Mani L, **Naderi-Manesh H**. Monodisperse Rattle-Structured Gold Nanorod-Mesoporous Silica Nanoparticles Core-Shell as Sulforaphane Carrier and its Sustained-Release Property. *Drug Research*. 2018;68(9):504-13.
46. Mobasseri R, Tian L, Soleimani M, Ramakrishna S, **Naderi-Manesh H**. Peptide modified nanofibrous scaffold promotes human mesenchymal stem cell proliferation and long-term passaging. *Materials Science and Engineering C*. 2018;84:80-9.
47. Hashemi N, Vaezi Z, Sedghi M, **Naderi-Manesh H**. Hemoglobin-incorporated iron quantum clusters as a novel fluorometric and colorimetric probe for sensing and cellular imaging of Zn(II) and cysteine. *Microchimica Acta*. 2018;185(1).
48. Tavaddod S, **Naderi-Manesh H**. Evidence of Multi-Domain Morphological Structures in Living Escherichia coli. *Scientific Reports*. 2017;7(1).
49. Khatti T, **Naderi-Manesh H**, Kalantar SM. Prediction of diameter in blended nanofibers of polycaprolactone-gelatin using ANN and RSM. *Fibers and Polymers*. 2017;18(12):2368-78.
50. Pajooheh M, Naderi M, **Naderi-Manesh H**. Proteomic features of delayed ocular symptoms caused by exposure to sulfur mustard: As studied by protein profiling of corneal epithelium. *Biochimica et Biophysica Acta - Proteins and Proteomics*. 2017;1865(11):1445-54.
51. Yahyaei M, Mehrnejad F, **Naderi-Manesh H**, Rezayan AH. Follicle-stimulating hormone encapsulation in the cholesterol-modified chitosan nanoparticles via molecular dynamics simulations and binding free energy calculations. *European Journal of Pharmaceutical Sciences*. 2017;107:126-37.
52. Ebrahimi Samani S, Seraj Z, **Naderimanesh H**, Khajeh K, Esmaeili Rastaghi AR, Droudi T, Kolivand P, Kazemi H, Asghari SM. Controlled release of an endostatin peptide using chitosan nanoparticles. *Chemical Biology and Drug Design*. 2017;90(3):417-24.

53. Pashandi Z, Molakarimi M, Mohseni A, Sajedi RH, Taghdir M, **Naderi-Manesh H**. Photoinactivation related dynamics of ctenophore photoproteins: Insights from molecular dynamics simulation under electric-field. *Biochemical and biophysical research communications*. 2017;490(2):265-70.
54. Molakarimi M, Mohseni A, Taghdir M, Pashandi Z, Gorman MA, Parker MW, **Naderi-Manesh H**, Sajedi RH. QM/MM simulations provide insight into the mechanism of bioluminescence triggering in ctenophore photoproteins. *PloS one*. 2017;12(8).
55. Shams E, Yeganeh H, **Naderi-Manesh H**, Gharibi R, Mohammad Hassan Z. Polyurethane/siloxane membranes containing graphene oxide nanoplatelets as antimicrobial wound dressings: in vitro and in vivo evaluations. *Journal of Materials Science: Materials in Medicine*. 2017;28(5).
56. Mobasserri R, Karimi M, Tian L, **Naderi-Manesh H**, Ramakrishna S. Hydrophobic lapatinib encapsulated dextran-chitosan nanoparticles using a toxic solvent free method: fabrication, release property & in vitro anti-cancer activity. *Materials Science and Engineering C*. 2017;74:413-21.
57. Tarokh Z, **Naderi-Manesh H**, Nazari M. Towards prostate cancer gene therapy: Development of a chlorotoxin-targeted nanovector for toxic (melittin) gene delivery. *European Journal of Pharmaceutical Sciences*. 2017;99:209-18.
58. Mobasserri R, Tian L, Soleimani M, Ramakrishna S, **Naderi-Manesh H**. Bio-active molecules modified surfaces enhanced mesenchymal stem cell adhesion and proliferation. *Biochemical and biophysical research communications*. 2017;483(1):312-7.
59. Azimzadeh M, Nasirizadeh N, Rahaie M, **Naderi-Manesh H**. Early detection of Alzheimer's disease using a biosensor based on electrochemically-reduced graphene oxide and gold nanowires for the quantification of serum microRNA-137. *RSC Advances*. 2017;7(88):55709-19.
60. Azimzadeh M, Rahaie M, Nasirizadeh N, Daneshpour M, **Naderi-Manesh H**. Electrochemical miRNA biosensors: The benefits of nanotechnology. *Nanomedicine Research Journal*. 2017;2(1):36-48.
61. Pashandi Z, Molakarimi M, Sajedi RH, Taghdir M, **Naderi-Manesh H**. Light induced structural changes of the photoprotein mnemiopsin: Characterization and contribution in photoinactivation. *Journal of Photochemistry and Photobiology B: Biology*. 2016;165:133-40.
62. Pajooheh M, **Naderi-Manesh H**, Soleimani M. MicroRNA-145-based differentiation of human mesenchymal stem cells to smooth muscle cells. *Biotechnology Letters*. 2016;38(11):1975-81.
63. Tavaddod S, **Naderi-Manesh H**. In Vivo study of naturally deformed Escherichia coli bacteria. *Journal of Bioenergetics and Biomembranes*. 2016;48(3):281-91.
64. Niknam N, Khakzad H, Arab SS, **Naderi-Manesh H**. PDB2Graph: A toolbox for identifying critical amino acids map in proteins based on graph theory. *Computers in Biology and Medicine*. 2016;72:151-9.
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