



Name: S.Nouredin Nematollahi-mahani

Date of Birth: 03, 11,1957

Sex: Male

Marital Status: Married & two Children

Nationality: Iranian

Address: Department of Anatomy, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran.

@: nematollahimahani@yahoo.com
nnematollahi@kmu.ac.ir

☎: (98) Office (98) 341 3221671
Office (98) 341 3221661-4
Cell phone: (98) 9131409249

Languages

- 1/ Persian
- 2/ English

Educations

- 1/ School of Medicine, Yamagata University, Japan; Post doctorate in ovarian follicle culture, 1997
- 2/ School of Medicine, Tarbiat Modarres University, Ph.D. in Anatomy & Embryology 1997
- 3/ School of Medicine, Tehran University, Iran; M.Sc. in Anatomy 1990
- 4/ School of Medicine, Isfahan University, Iran; B.Sc. in medical lab. sciences 1983

Occupation

Professor in embryology, Afzalipour Medical Faculty, Kerman University of Medical Sciences, Kerman, Iran.
Current position: Vice chancellor in education at Afzalipour Medical School, Kerman, Iran

Teaching Experience

- 1/ Gross Anatomy to B.Sc., M.Sc., Medical & Ph.D. students
- 2/ Embryology to B.Sc., M.Sc., Ph.D. & medical students

Research Interests

- 1/ Preimplantation embryo development.
- 2/ in vitro folliculogenesis
- 3/ Stem cells

Current Researches

- 1/ Transdifferentiation of umbilical cord matrix-derived mesenchymal cells into insulin secreting cell and the effects of transplantation of these cells on diabetic rats.
- 2/ Transplantation of human umbilical cord matrix stem cells into infarcted heart of rabbits.
- 3/ Effects of different culture conditions on differentiation of human umbilical Cord Matrix cells to Neuron-like cells.

Published papers/ books

Books

- 1/ **Nematollahi N.**, Imami Meibodi M.A. (1992) Illustrated Anatomy for Nurses (*persian*)
- 2/ Rezazadeh M., **Nematollahi-Mahani SN.** And others. (2003) Intracytoplasmic sperm injection techniques. Royan Institute, Tehran (Persian)

Papers

- 1/ Rezazadeh M, **Nematollahi SN**, Hosseini A. (1997) The effect of Vero cells on development of one and two cell mouse embryos. *Middle East Fertility Society Journal*; 2(1): 34-40.
- 2/ **Nematollahi SN**, Valojerdi MR, Hosseini A, Mozdarani H. (1998) The effect of Vero cells on preimplantation mouse embryos in culture system. *Pazhouhesh in pezeshti (Res in Med)*; 21(4): 80-90. (Persian, abstract in English)
- 3/ **Nematollahi SN**, Rezazadeh M, Imami Meibodi MA. (1999) Preimplantation mouse embryo cryopreservation with propandiol and sucrose: the effect of developmental stage. *Yakhteh (cell)*; 1(2): 15-20 (Persian, abstract in English).
- 4/ **Nematollahi SN**, Valojerdi MR. (1999) Effect of Vero cell coculture on the development of frozen-thawed two-cell mouse embryos. *J Assist Reprod Genet. Aug*; 16(7): 380-4.
- 5/ Amiri I, Barbarestani M, Marzban H, **Nematollahi SN**, Niknafs B. (2001) Ascorbic acid diminishes developmental damages induced by high glucose in mouse pre-implantation embryos in vitro. *Arch. Razi. Ins.* 52; 75-85.
- 6/ Amiri I, Marzban H, Barbarestani M, **Nematollahi SN.** (2001) Effects of L-arginine on development of mouse pre-implantation embryos in high glucose media. Barvari and Nabarvari (*Fertility and sterility*); 8:4-12 (Persian, abstract in English).

- 7/ Ezzatabadi pour M, Hosseini H, Baharvand H, **Nematollahi SN**, Heidary MH. (2002) Developmental potential of mouse morula, early and late blastocyst after vitrification. *yakhteh (cell)*;13(4):23-32. (Persian, abstract in English)
- 8/ Ezzatabadi pour M, hosseini A, **Nematollahi-mahani SN**, Baharvand H, Heidari MH. (2003) Ultrastructure of mouse early blastocysts after vitrification. *Kowsar Medical Journal*;8(2): 85-97. (Persian, abstract in English)
- 9/ Barbarestani M, Amiri I, Abolhassani F, Dehpour A, Niknafs B, **Nematollahi-mahani SN**, Abdolvahabi A. (2001) The Role of Arginine in Control of Apoptosis in Preimplantation Mouse Embryos Cultured in High Glucose Medium. *Daru*;12(1), 18-23.
- 10/ Babaei H, Derakhshanfar A, **Nematollahi-mahani SN**, Nabipour F, Zeraatpisheh A. (2005) Morphologic Changes in Fresh And Vitrified Mouse Ovaries After Retinol Palmitate Administration. *IJRM*; 3(2), 62-67.
- 11/ Babaei H, **Nematollahi-mahani SN**, Kheradmand A. (2006) The Effects of Vitamin A Administration on the Development of Vitrified Warmed Mouse Blastocyst. *Animal Reproduction Science*; 95 125–133
- 12/ Babaei H, **Nematollahi-mahani SN**, Kheradmand A, Ayan A. (2006) In vitro survival rate of bovine oocytes following vitrification in glass capillary micropipette (CGM). *Iranian Journal of Veterinary Research*; 7(1):8-13.
- 13/ **Nematollahi-mahani SN**, Amini S, Imami-Meibodi MA, Nabipour F, Eftekhari-Vaghefi SH. (2005) Effects of morphine on Mouse folliculogenesis followed by Superovulation. *Kerman Medical University Journal*; 12(3): 180-174. (Persian, abstract in English)
- 14/ **Nematollahi-mahani SN**, Pahang H, Nematollahi-Mahani AM. (2006) Effects of visible light on development of mouse 2-cell embryos. *Kerman Medical University Journal*; 13(3): 1-7 (Persian, abstract in English).
- 15/ **Nematollahi-mahani SN**, Pahang H, Kiani-Nejad MA. (2007) Potential of Mouse and Human Embryonic Fibroblasts to Support Mouse Embryo Development Following Exposure to Laboratory Temperature. *Journal of Iranian anatomical sciences*; 4(2): 163-174 (Persian, abstract in English).
- 16/ Fariabi J, **Nematollahi-mahani SN**, Malekpour R, Nematipour A, Fardisi S. (2006) In vitro cultivation of human mandibular bone stem cells. *Kerman Medical University Journal*; 13(2): 57-66 (Persian, abstract in English).
- 17/ **Nematollahi-mahani SN**, Rezazadeh-Kermani M, Mehrabani M, Nakhaee N. (2007) Cytotoxic Effects of *Teucrium polium* on Some Established Cell Lines. *Pharmaceutical Biology*; 45(5):295-298.
- 18/ Hajalizadeh N., Babaei H., **Nematollahi-mahani SN.**, Azizollahi S. (2008) The development

of early mouse embryos in vitro in fibroblast and cumulus cell co-culture supplemented with retinoic acid. *Iranian Journal of Veterinary Research*. 9(1):1-8.

19/ Arabpour E., Paydar A., Sheibani V., Rayegan P., Nematollahi-Mahani SN. (2008) Chronic morphine dependency and its behavioral reproductive effects in rats. *J Reprod and infertil*, 8(4): 337-344. (Persian, abstract in English).

20/ Babaei H, Moshrefi M, Golchin M, Nematollahi-Mahani SN. (2008) Assess the Pluripotency of Caprine Umbilical Cord Wharton's Jelly Mesenchymal Cells By RT-PCR Analysis of Early Transcription Factor Nanog. *IJVS*, 3(2): 57-65.

21/ Azari O, Babaei H, Molaei MM, Nematollahi-mahani SN, Taherzadeh Layasi S. (2008) The Use of Wharton's Jelly-Derived Mesenchymal Stem Cells to Accelerate Second-Intention Cutaneous Wound Healing in Goat. *IJVS*, 3(8): 15-26.

22/ Nematollahi-mahani SN, Pahang H, Moshkdanian Gh, Nematollahi-mahani AM. (2009) Effect of embryonic fibroblast cell co-culture on development of mouse embryos following exposure to visible light. *Journal of assisted Reproduction and Genetics*, 26:129-135.

23/ Nematollahi-mahani SN, Rezazadeh kermani M, Latifpour M, Salehinejad P. (2009) Biological and Biochemical Characteristics of Human Umbilical Cord Mesenchymal Cells. *J Reprod and fertil*, 10(1):7-15. (Persian, abstract in English)

24/ Eskandary H, Nematollahi-mahani SN, Zangiabadi N. (2009) Skull Indices in a Population Collected From Computed Tomographic Scans of Patients with Head Trauma. *Journal of Craniofacial Surgery*, 20:545-550.

25/ Aghaee-afshar M, Rezazadehkermani M, Asadi A, Malekpour-afshar R, Shahesmaeili A, and Nematollahi-mahani SN. (2009) Potential of Human Umbilical Cord Matrix and Rabbit Bone Marrow-Derived Mesenchymal Stem Cells in Repairing of Surgically Incised Rabbit External Anal Sphincter. *Diseases of the colon and Rectum*, 52 (10):1753-1761.

26/ Nematollahi-mahani SN, Nematollahi-mahani AM, Moshkdanian GH, Shahidzadehyazdi Zh, Labibi F (2009). The role of co-culture systems on development of preimplantation mouse embryos against pH fluctuations of culture media. *Journal of assisted reproduction and genetics*. 26 (11-12): 597-604.

27/ Eftekhari Vaghefi H., Zareii Fard N., Shahidzadeh Zh., Nematollahi-mahani SN. (2009) Isolation and primary culture of ES-like colonies from NMRI mouse embryos. *Iranian journal of reproductive medicine*, 7(4): 145-152.

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39/ Basiri M, Ezzatabadipour M, Hemayatkhah jahromi V, Shahidi zandi N, Sarveazad A, **Nematollahi-mahani SN**. **(2011)** / Effects of nicotine and ethanol administration on the seminal vesicle of adult rats. *Journal of fertility and sterility*, 12(2): 109-115.

- 40/ Ezzatabadipour M, Majidi M, Malekpour-afshar R, Eftekhavaghefi SH, **Nematollahi-mahani SN (2011)** The Effects of Morphine on Tissue Structure of the Growth Plate in Male Rats. *IJBMS*, 14(6): 514-520.
- 41/ Salehinejad P, Alitheen NB, Ali A, Omar A, Mohit M, Janzamin E, Sahraneshin samani F, Torshizi Z, **Nematollahi-mahani SN (2012)** Comparison of different methods for the isolation of mesenchymal stem cells from human umbilical cord Wharton's jelly. *In vitro Cell Dev Biol* 48:75-83.
- 42/ Azizollahi Ga, Azizollahi S, babaei H, Kiani MA, Baneshi MR, **Nematollahi-mahani SN (2013)** Effects of supplement therapy on sperm parameters, protamine content and acrosomal integrity of varicocelectomized subjects. *JARG*, 30: 593-599.
- 43/ Ezzatabadipour M, Azizollahi S, Sarvazad A, Mirkahnouj Z, Mahdinia Z, **Nematollahi-mahani SN (2012)** The effects of concurrent chronic administration of alcohol and nicotine on rat sperm parameters. *Andrologia*, 44(5): 330-336.
- 44/ Salehinejad P, Alitheen NB, Ali AM, Omar AR, Mohit M, JanzaminE, **Nematollahi-mahani SN (2012)** Effect of culture media on expansion properties of human umbilical cord matrix-derived mesenchymal cells. *Cytotherapy*, 14(8): 948-953.
- 45/ Salehinejad P, Aliteen NB, Ali AM, Omar AR, Moshrefi M, **Nematollahi-mahani SN. (in press)** Neural differentiation of human umbilical cord matrix- derived mesenchymal cells under special culture conditions. *Cytothechnology* DOI 10.1007/s10616-014-9703-6
- 46/ **Nematollahi-mahani SN**, Azizollahi G, Baneshi MR, Safari Z, Azizollahi S (2013) Effect of folic acid and zinc sulfate on endocrine parameters and seminal antioxidant level after varicocelectomy. *Andrologia*, 1-6.
- 47/ Mahdinia Z, Eftekhavaghefi R, Mehrabani M, Nabipour F, Mahdinia N, **Nematollahi-mahani SN (2013)** The effect of petroleum ether fraction of *Teucrium polium* extract on laboratory mouse liver. *Journal of Kerman University of Medical Sciences*, 20(3): 279-29 (Farsi).
- 48/ Salehinejad P, Aliteen NB, Mandegary A, **Nematollahi-mahani SN**, Janzamin E. (2012) Effect of EGF and FGF on the expansion properties of human umbilical cord mesenchymal cells. *In vitro cellular and developmental biology-animal*, DOI 10.1007/s11626-013-9631-3
- 49/ Ezzatabadipour M, Kaviani M, Salehinejad P, Mohammadi M, **Nematollahi-Mahani SN (2013)** VITRIFICATION OF HUMAN UMBILICAL CORD WHARTON'S JELLY-DERIVED MESENCHYMAL STEM CELLS. *CryoLetter*, 34(5): 471-480.
- 50/ kaviani M, Ezzatabadipour M, **Nematollahi-mahani SN**, Salehinejad P, Mohammadi M, Kalantar SM, Motamedi M. (2014) Evaluation of gametogenic potential of vitrified human umbilical cord. *Cryotherapy*, 16:203-212.

- 51/ **Nematollahi-Mahani SN**, F Labibi, Z Shahidzadeh yazdi, E Karamad, ... (2014) [The Impact of Opium Dependence and Cigarette Smoking on Human Semen Parameters](#). *Anatomical sciences* 11 (4), 189-196
- 52/ VH Sareh Ashourzadeh, Mohammad Ali Khalili, Marjan Omid, **Nematollahi-mahani SN**. (2015) [Noninvasive assays of in vitro matured human oocytes showed insignificant correlation with fertilization and embryo development](#). *Archive of Gynecology and Obstetrics*
- 53/ P Salehinejad, NB Alitheen, AM Ali, AR Omar, M Moshrefi, B Motamedi, **Nematollahi-mahani SN**. (2015) [Neural differentiation of human umbilical cord matrix-derived mesenchymal cells under special culture conditions](#). *Cytotechnology* 67 (3), 449-460
- 54/ F Nouri, P Salehinejad, **Nematollahi-mahani SN**, T Kamarul, ... (2015) [Deferoxamine Preconditioning of Neural-Like Cells Derived from Human Wharton's Jelly Mesenchymal Stem Cells as a Strategy to Promote Their Tolerance and Therapeutic Potential: An In Vitro Study](#). *Cellular and Molecular Neurobiology*, 1-12
- 55/ M Moshrefi, N Yari, F Nabipour, MR Bazrafshani, **Nematollahi-mahani SN**. (2015) [Transplantation of differentiated umbilical cord mesenchymal cells under kidney capsule for control of type I diabetes in rat](#). *Tissue and Cell* 47 (4), 395-405
- 56/ F Seyedi, A Farsinejad, M Moshrefi, **Nematollahi-Mahani SN**. (2016) [In vitro evaluation of different protocols for the induction of mesenchymal stem cells to insulin-producing cells](#). *In Vitro Cellular & Developmental Biology-Animal* 51 (8), 866-878
- 57/ V Sheibani, K Esmaeilpour, T Eslaminejad, **Nematollahi-Mahani SN**. (2015) [Coadministration of the Human Umbilical Cord Matrix-Derived Mesenchymal Cells and Aspirin Alters Postischemic Brain Injury in Rats](#). *Journal of Stroke and Cerebrovascular Diseases* 24 (9), 2005-2016
- 58/ **Nematollahi-mahani SN**, Batool Motamedi, Tengku Azmi Tengku Ibrahim, Ahmad Bustamam Abdul ... (2016) [Characteristics of Human Amniotic Epithelial Cells and Bone Marrow Mesenchymal Stem Cells in a Parallel Study: Hanging Drop Colony Formation and Doubling Time](#). *Journal of Regenerative Medicine* 4 (1), 1-8
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- 60/ F Seyedi, A Farsinejad, **Nematollahi-Mahani SA**, T Eslaminejad, ... (2016) [Suspension culture alters insulin secretion in induced human umbilical cord matrix-derived mesenchymal cells](#). *Cell Journal (Yakhteh)* 18 (1), 52
- 61/ Z Abdi, H Eskandary, **Nematollahi-Mahani SN**. (2016) [Human Umbilical Cord Matrix-Derived Stem Cells Show Tropism Towards the Human Glioma Microenvironment](#). *Int J Stem Cell Res Transplant* 4 (1), 146-145

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Abstracts

1/**Nematollahi N**, Rezazadeh M., Hosseini A. The Effect of Different Thawing Rates on the Development of Mouse Embryos. *2nd Middle East Fertility society meeting ; Alexandra, Egypt. 1995.*

2/**Nematollahi N.** and Rezazadeh M. Embryo Cryopreservation, The effect of thawing rate. *5th international Congress in Gynaecology & Infertility; Tehran, Iran 1996.*

3/**Nematollahi N.**, Rezazadeh M., Hosseini A. The effect of Vero cell on pronuclear & 2-cell mouse embryo. *Middle East Fertility Society Journal 1996;1(suppl 1): 22.*

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5/**Nematollahi N.** Human embryo cryopreservation. *1st seminar on advanced techniques in treatment of infertility. Tehran, Iran 1996.*

6/**Nematollahi N.**, Rezazadeh M., Hosseini A., Mozdarani H. Development of Frozen -thawed 2-cell mouse embryos in 1,2 propandiol is enhanced by coculturing with Vero cells. *J.Assist. Reprod. Genet.* 1997; 14(suppl): 184s.

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success of cryopreservation. *Hum.Reprod.*1997; 12(*Abstr 1*) 229.

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11/Nematollahi N., Saito H., Hiroi M. In vitro maturation of ovarian follicles in presence of hyaluronic acid. *Fertil. Steril.*1999; 72 (3) *suppl. 1*: s200 p-345.

12/Nematollahi N. Human gamet cryopreservation; benefits and complications. *4th seminar on advanced techniques in treatment of infertility. Tehran, Iran 1999.*

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14/ Rohani R. and Nematollahi N. The effect of pH on sperm parameters. *8th fertility and infertility meeting. Tehran, Iran 2000.*

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Development of murine embryos in co-culture systems after exposure to room temperature.
Middle East fertility Society Journal

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Cultivation of mouse embryos to isolate embryonic stem cells. *Middle East fertility Society Journal*

23/ Danaii M., Assaran M., Sheibani V., Kalantaripour T., Nematollahi N.. Effects of morphine dependency on sexual activities, pregnancy outcome and offspring disorders. *6th Iranian congress on anatomical sciences. Shiraz, Iran, 2004.*

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26/ Labibi F., Shahidzadeh ZH., Habibzadeh V., Mehri-Mahani I., Kamyabi Z., Nematollahi-mahani SN. Effect of seasonal changes on Semen and sperm parameters. *17th Phisilogy and Pharmacology congress (students section). Kerman, Iran, 2005.*

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31/ Nematollahi-mahani SN., Rezazadeh-Kermani M., Mehrabani M., Nakhaei N. Novel cytotoxic effects of Fumaria Parviflora on established cell lines. *First students Meeting on Biothechnology, Tehran, Iran, 2005*

32/ Afshar MS., **Nematollahi-mahani SN.**, Rezazadehkermani M., Asadi A., Malekpour R., Shahesmaeili A. Stem cells may improve anal sphincter function. **2006, Hong kong.**

33/ **Nematollahi-mahani SN.**, Rezazadeh-Kermani M., Mehrabani M., Nakhaei N. Effect of ethanol extract of Teucrium Polium on cell proliferation and colony formation of established cell lines. *The 7th Iranian congress of Iranian medical science students, Tehran, Iran 2006 (prized abstract)*

34/ **Nematollahi-mahani SN**, Amini S, Imami meibodi MA, Eftekhari vaghefi SH, Nabipour F. Effects of morphine on mouse folliculogenesis and IVM-IVF following induction of ovulation. *13th world congress on In vitro Fertilization & 3rd world congress on In Vitro Maturation, 2007, Montreal, Canada.*

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