

Hossein Mozdarani

**Professor of Medical Genetics, Department of Medical Genetics,
Faculty of Medical Sciences, Tarbiat Modares University**

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PERSONAL INFORMATION

Name: Hossein Mozdarani

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Qualifications:

B.Sc. (1983) Radiology Technology, Iran University of Medical Sciences, Tehran, Iran.

M.Sc. (1985) Radiation Biophysics, St. Andrews University, St. Andrews, Scotland, UK.

Ph.D. (1989) Medical Genetics/ Radiobiology, St. Andrews University, St. Andrews, Scotland, UK.

Title of thesis: Kinetics of X-ray induced chromatid aberrations in irradiated G2 normal and ataxia telangiectasia cells and the influence of DNA repair inhibitors.

Scientific activities

- **Head of Medical Genetics Department.**
- **Faculty member of Faculty of Medical Science of Tarbiat Modares University Since 1989. (Assistant Professor 1989-1994, Associate Professor 1994-1999, Full professor 2000-Present).**
- **Head of Radiology Department, School of Medical Sciences, Tarbiat Modares University (1990-2000)**
- **Vice-Dean for Research Affair, School of Medical Sciences, Tarbiat Modares University (1990-1995).**
- **Founder of the Department of Medical Genetics of Tarbiat Modares University.**
- **Founder Member of Shahid Beheshti Genomic Research Center.**
- **Founder of Infertility Genetics Department and Cytogenetics and PGD labs of the Royan Institute.**

- **Founder of Cytogenetic lab of the Pasteur Institute cell bank.**
- **Founder editor and Editor-in-Chief, International Journal of Radiation Research, 2003-Present.**
- **Board Member of Medical Genetics, Ministry of health and Medical education; 1397-present.**
- **Scientific committee member of IOMP 2018-2021 (International organization for Medical Physics)**
- **Scientific committee member of IOMP 2015-2018 (International organization for Medical Physics)**
- **Scientific committee member of IOMP 2012-2015 (International organization for Medical Physics)**
- **Scientific committee member of IOMP 2009-2012 (International organization for Medical Physics)**
- **Scientific committee member of AFOMP 2009-2012 (Asian Federation of Medical Physics)**
- **Board member of Iranian Association of Medical Physics since 2001-now.**
- **Past president of Iranian Association of Medical Physics (2008-2011)**
- **Vice president Iranian Association of Medical Physics (2 terms) (2011-2018)**
- **Vice President of Iranian Association of Medical Genetics (2011-2014)**
- **Treasurer of Iranian Association of Medical Physics (2018-2020)**
- **Organizer of an international workshop on “Radiogenomics and Precision Radiotherapy” at Tarbiat Modares University, Tehran, Iran, 2019.**
- **Invited organizer and lecturer of AFOMP school webinar on “From classical Radiobiology to Radiogenomics and personalized radiotherapy: AFOMP 2021**
- **Invited speaker for AFOMP international monthly webinar on “Biological Paradigms Affecting Radiotherapy Outcome; AFOMP 2021**
- **Invited Speaker for AFOMP school webinar on “Biological Basis of Radiotherapy Effectiveness; From Radium to Particle therapy; AFOMP 2023.**
- **Proposer and leading member of establishment of M.Sc. course in Radiobiology and Radiation Protection, in Iran.**
- **Scientific secretary of 11th international congress of lab and clinic; Tehran University of Medical Sciences, (2018).**
- **Scientific Secretary and organizer of the first Clinical Radiobiology Seminar held at Tehran, Shahid Beheshti University of Medical Sciences (2017).**
- **Scientific Secretary and organizer of 2nd Clinical Radiobiology Seminar in conjunction with third international congress of clinical oncology. Tehran, (2018)**
- **Scientific Secretary of Clinical Radiobiology congress in conjunction with third international congress of clinical oncology. Tehran, (2019).**
- **Scientific Secretary of Clinical Radiobiology congress in conjunction with 5th international congress of clinical oncology. Tehran, (2021).**
- **Scientific secretary of clinical radiobiology section of the 7th International congress of Clinical Oncology, Tehran, 2022.**
- **Editorial Board member of Iranian Journal of Medical Physics, since its establishment.**
 - **Editorial Board member of Iranian Journal of Radiology.**
 - **Editorial Board member of International Journal of Radiation Research.**
 - **Editorial Board member of Journal of Nuclear Medicine and Environmental Radioactivity.**
- **Invited speakers at Emergency and medical preparedness in nuclear accidents, Organized by IAEA in Lebanon (2003);**
- **Invited speakers at Emergency and medical preparedness in nuclear accidents, Organized by IAEA in Tehran (2005);**
- **Invited speakers at Emergency and medical preparedness in nuclear accidents, Organized by Several Medical Sciences Universities in Iran (2004-2010);**

- Scientific committee member of all Medical Physics congress held at Iran (11 times).
 - Invited Speaker at All Medical Physics congress and several Nuclear Medicine and Radiology congresses held In Iran.
 - Honorary Chairman of the international congress of “Human, Life and Radiation” held at Rafsanjan University and Invited Speaker (2006)
 - Scientific committee member and invited speaker at 1st MEFOMP congress held at Shiraz University of Medical Sciences, 2011.
 - Board member of examiners of radiotherapy physics qualifications held by IAMP and IOAE since 2017.
 - Member of Editorial Board of Modares Journal of Pathobiology.
 - Member of Editorial Board of World Journal of Stem cells.
 - Member of Editorial Board of Asia-Pacific Journal of infertility. Chair and co-chair Practical Preimplantation Genetic Workshop, Royan institute, Tehran, Iran, 2001 and 2003.
 - Invited speakers at Emergency and medical preparedness in nuclear accidents, Lebanon (2003); and several universities in Iran since, 2004-2010.
- Membership in scientific societies and journal editorial Board:**
- Member of Genetic society of Iran
- Member of Iranian Society of Medical genetics, *1 term vice president of the society.*
- Member of Iranian Society for Reproductive Medicine.
- Member of Editorial Board of Journal of Genetic Novin.
- AND scientific committee member of several scientific congresses since 1991 up to 2023.

Teaching activities:

- Teaching radiobiology from elementary to advanced level for under graduate and post-graduate students.
- Teaching use of radioisotopes and Radioactivity in Medicine for post graduate students.
- Teaching Biological Dosimetry, at post-graduate level.
- Teaching Medical cytogenetic at MSc and PhD level.
- Teaching Cancer Genetics at PhD level.
- Teaching Medical Ethics at MSc level.

Topics of the Main research projects performed (Reports available):

- Cancer genetics and epigenetics
- Genetics of infertility
- Stem cell enrichment, differentiation and homing.
- Study of chromosomal variations in human gametes, pre-embryos and transgenerational genomic instability after ART procedures (IVF or ICSI).
- Chromosomal radio sensitivity of lymphocytes at G0 and G2 phases of the cell cycle as a predictor of cancer susceptibility.
- Cytogenetic biomonitoring of individuals' occupationally exposed to low doses of physical and chemical agents.
- Chemical radioprotection.
- Biological Dosimetry (cytogenetics, molecular).
- Radioadaptation
- Chromosomal radio sensitivity of lymphocytes at G0 and G2 phases of the cell cycle as a predictor of cancer susceptibility.
- Radiogenomics and radiotoxicity.

Number of Ph.D theses supervised: 35
Number of MSc Thesis supervised: 137

AWARDS and Honors

Occasion	Subject and Rank	Presented By	Country	Year
Outstanding Professor recognized by Asia-Oceana federation of Medical physics	Outstanding Medical Physicist in AFOMP Region	President of AFOMP	Asia-Oceana member countries (17)	2020
Laureate of the 10th Royan International Festival, National Winners	Reduction of Genetic damage by antioxidants	Deputy of Research, Ministry of Health and President of Royan Institute	Iran	2013
Laureate of the 24th Khwarizmi International Award	3rd Laureate for Applied Research	The president of I.R. Iran	Iran	2011
Accompanied with Certificate of Appreciation from the Economic Cooperation Organization		Representative of ECO	Iran	2011
Laureate of the 10th Royan International Festival, National Winners	Impact of Radiation induced damage on fertilization and embryo	Deputy of Research, Ministry of Health and President of Royan Institute	Iran	2009
Certificate of Appreciation By Scientific and Jury members of 22th Khwarizmi International Award	Transgenerational genomic instability	Scientific committee of 22th KIA	Iran	2009
Laureate of the 12th RAZI Medical Award (RAZI Festival) Ministry of Health, Treatment and Education	3rd Laureate for Research on Basic Medical Sciences	The president of I.R. Iran	Iran	2006
Laureate of the 2nd Academic Year book for writing and editing a book	Biological Dosimetry	Chancellor, Tarbiat Modares University	Iran	2005
Outstanding researcher of the university	Tarbiat Modares University	University Chancellor,	Iran	2004
Laureate of the 12th Academic Year book for translation a book into Persian	Radiobiology for the Radiologist	Chancellor, Tehran University	Iran	2003
Outstanding Professor of the University	Tarbiat Modares University	University Chancellor,	Iran	2003
Outstanding researcher of the university	Tarbiat Modares University	University Chancellor,	Iran	2002
Outstanding researcher of the university	Tarbiat Modares University	University Chancellor,	Iran	2001
Outstanding researcher of the university	Tarbiat Modares University	University Chancellor,	Iran	2000
Laureate of the 9th Academic Year book for translation a book into Persian	Practical Radiation Protection and Applied Radiobiology	Chancellor, Tehran University	Iran	2000
Outstanding Professor of the National Universities	Ministry of Science, Research and Technology	Minister of Science, Research and Technology	Iran	2000

Laureate of the 5 th RAZI Medical Award (RAZI Festival) Ministry of Health, Treatment and Education	2 nd Laureate for Research on Basic Medical Sciences	The president of I.R. Iran	Iran	1999
Outstanding Professor of the University	Tarbiat Modares University	University Chancellor,	Iran	1999
Outstanding Professor of the University	Tarbiat Modares University	University Chancellor,	Iran	1993
Scholarship for MSc and PhD degree	Ministry of Science, Research and Technology		Iran	1983

List of Publications:

1- Books:

A: Books authored:

- 1- Mozdarani H. (2022) **Bioindicators for Biological Dosimetry in the events of nuclear accidents.** Bareshe Danesh Press, Tehran, Iran.
- 2- Hossein Mozdarani (2021) **Military service ended at 1978.** Bareshe Danesh Press, Tehran, Iran.
- 3- Mozdarani H. (2016) **Clinical Cytogenetics, Principles and Methods;** Bareshe Danesh Press, Tehran, Iran.
- 4- Mozdarani H. (2010) **Essentials of Clinical Cytogenetics;** Bareshe Danesh Press, Tehran, Iran.
- 5- Mozdarani H. (2009) **A Dictionary of Radiobiology.** Bareshe Danesh Press, Tehran, Iran.
- 6- Mozdarani H, Samiee F, Foroghizade M (2004) **Amifostine; A chemo-radio protector.** Maleke Ashtar University Press. Tehran, Iran.
- 7- Mozdarani H. (2003) **Biological Dosimetry, Bioindicators and Methods.** Tebe Novin Press, Tehran, Iran.
- 8- Mozdarani H and Saberi AH (1992) **Development of Medical Imaging since rontgen till now (2000).** Tarbiat Modares University Press, Tehran, Iran.

B: Translated into Persian language:

- 1- Mozdarani H (2021) **Translation of Radiobiology for Medical Physicists.** Baresh-e-Danesh Press, Tehran, Iran.
- 2- Sadafi R, Mozdarani H (2019) **Dirty Genes; Scientific Editor,** Royan Gene Pazhoh, Tehran, Iran.
- 3- Mozdarani H (2018) **Radiobiology for the Radiologist 8th edn;** Baresh e- Danesh Press, Tehran, Iran.
- 4- Piryaee F, Sarly A, Mashayekhi A, Mozdarani H (2017) **Human Genetics; From Molecule to Medicine.** Baresh Danesh Press, Tehran, Iran.
- 5- Mozdarani H, Razzaghdoust, Heidari (2013) **Essentials of Clinical radiobiology.**

- Baresh –e- Danesh Press, Tehran.
- 6- Mozdarani H (2014) Practical radiation Protection and applied radiobiology 2nd edn. Baresh –e- Danesh Press, Tehran.
 - 7- Nasiri H, Modarresi M, Mozdarani H, et al. (2007) Emery’s elements of medical genetics (translation); Kamalolmolk press, Tehran, Iran.
 - 8- Mozdarani H (2005) Preimplantation Genetic Diagnosis. Tarbiat Modares University Press, Tehran, Iran.
 - 9- Zakeri F and Mozdarani H (2004) IAEA Technical reports series: Cytogenetic analysis for dose assessment (translation). Andisheh Zohour, Tehran, Iran.
 - 10- Sabour, D., Omid S., Mozdarani H. (2002) A cartoon guide of Genetics. Tabib Press, Tehran, Iran.
 - 11- Mozdarani H (2002) Radiobiology for the Radiologist 5th edn; vol. 2. Tarbiat Modares University Press, Tehran, Iran.
 - 12- Mozdarani H (2001) Radiobiology for the Radiologist 5th edn; vol. 1. Tarbiat Modares University Press, Tehran, Iran.
 - 13- Foroghizadeh M and Mozdarani H (2002) Diagnosis and Treatment of Radiation Injuries. Tabib Press, Tehran, Iran.
 - 14- Mozdarani H (2000) Practical radiation Protection and applied radiobiology 1st edn. Tarbiat Modares University Press, Tehran, Iran.
 - 15- Mozdarani H (1996) Molecular Basis of Genetic Diseases. Tarbiat Modares University Press, Tehran, Iran.
 - 16- Mozdarani H (1995) Military Radiobiology. Imam Hossein University Press, Tehran, Iran.
 - 17- Mozdarani H (1994) Genetic Biochemistry. Mobtakeran Press. Tehran, Iran.
 - 18- Mozdarani H (1990) Radiobiology for the Radiologist 2th edn; Tarbiat Modares University Press, Tehran, Iran.
 - 19- Mozdarani H (1985) Techniques in Nuclear Medicine. Jihad-Daneshgahi, Tehran, Iran.

2- Full papers:

A: Full papers in international and national English Language Journals:

Abdollahi E., **Mozdarani H.**, Alizadeh BZ. (2023) Role of circ-FOXO3 and miR-23a in radiosensitivity of breast cancer. Breast Cancer. doi.org/10.1007/s12282-023-01463-4

Piryaei F, **Mozdarani H.**, Sadighi Gilani MA, Rajender S, Finelli R, Darestanifarrahani M, Sarli A, Mehta P, Agarwal A (2023) Global Analysis in Nonobstructive Azoospermic Testis Identifies miRNAs Critical to Spermatogenesis. Andrologia, 2023, Article ID 2074931.

Pakniyat F, **Mozdarani H**, Nedaie HA, Mahmoudzadeh A, Salimi M, Gholami S. (2023) Bystander Response Following High-Dose X-irradiation; Time-dependent Nature of GammaH2AX Foci and Cell Death Consequences. *J Biomed Phys Eng*.13(1):17-28.

Pourattar MA, Talebi M, Paydar R, **Mozdarani H**, Maziyar A (2023) Investigating the expression level of long non-coding RNAs in response to low-dose ionizing. Radiation. *Medical and Clinical Research*; 8 (4): 1-5.

Nasirpour MH, Salimi M, Majidi F, Minucmehr Z, Mozdarani H (2023) Study of DACH1 Expression and its Epigenetic Regulators as Possible Breast Cancer-Related Biomarkers. *Avicenna J Med Biotech*;15(2):108-117.

Shokouhian M, Mozdarani H, Soleimani M, Safa M, Rezvany MR (2023) Evaluation of DNA Damage and Repair In *In Vitro* Expanded Cord Blood CD 34 Positive Hematopoietic Stem Cell. *International Journal of Medical Laboratory*, 10(1): 46-56.

Mozdarani H. (2023) After 20 years! Experiences of 20 years publication in the field of radiological sciences. The need for continued researches and global contributions. *Int J Radiat Res.*, 21 (1): 1-5.

Sheikh-Hosseini, M., Salimi, M., **Mozdarani, H**. (2022) A-Kinase anchor protein 4 (AKAP4) may be considered as a potential early diagnostic breast cancer marker detectable in blood *Gene Reports*, 29, 101663.

Parvanehvar, S., Tehranian, N., Kazemnejad, A., **Mozdarani, H.**, Hedayati, M. (2022)Maternal serum adiponectin and leptin levels and their gene expression, postpartum body mass index, and breastfeeding duration based on mode of delivery: A prospective study .*Journal of Obstetrics and Gynaecology Research*, 48(7):1768–1774.

Rajabi, F., **Mozdarani, H**. (2022) Expression level of miR-155, miR-15a and miR-19a in peripheral blood of ductal carcinoma breast cancer patients: Possible bioindicators for cellular inherent radiosensitivity. *Experimental and Molecular Pathology*, 126: 104758

Reza Ramazani Khorshiddoust, Saleh Ramazani Khorshiddoust, Tahereh Hosseinabadi, Faezeh Mottaghitalab, Farzad Mokhtari, Fatemeh Azadinia, **Hossein Mozdarani**, Mohammad Shabani, et al. (2022) Efficacy of a multiple-indication antiviral herbal drug (Saliravira®) for COVID-19 outpatients: A pre-clinical and randomized clinical trial study. *Biomedicine & Pharmacotherapy*, 149 (2022) 112729.

H. Mozdarani*, R. Rahbar Parvaneh, S. Mozdarani, M. Lashkari. (2022) Evaluation of the types and frequency of unstable chromosomal aberrations induced in lymphocytes of breast cancer patients before and after radiotherapy. *Int. J. Radiat. Res*; 20(2): 353-360

Somayyeh Babaloui, Masoud Najafi, **Hossein Mozdarani**, Samira Borhani, Ramin Jaber, Mahdi Aghili (2022) Radiosensitization of Glioma Cells by Temozolomide (TMZ): A Colony Formation Assay. *J Biomed Phys Eng*; 12(1): 43-50

Fatemeh Pakniyat, Hassan Ali Nedaie, **Hossein Mozdarani**, Aziz Mahmoudzadeh4, Somayeh Gholami (2022) Evaluation of Capability and Relationship of Different Radiobiological Endpoints for Radiosensitivity Prediction in Human Tumor Cell Lines Compared with Clonogenic Survival. *J Biomed Phys Eng*; 12(2): 127-136.

Andia Seyedi Moghaddam, Mahdiah Salimi, Najmeh Ranji, **Hossein Mozdarani** (2021) Upregulation of miR-21 and miR-106b in Plasma and Tissues as a Possible Prognostic Marker in Aggressive Breast Cancer. *Iran Red Crescent Med J*; 23(10): e547

Moeinian, P., Alizadeh, R., Hakim Shooshtari, M., ..**Mozdarani H.**, .Mortazavi, Z., Akouchekian, M. (2021) Assessment of Peripheral Blood Lymphocytes in Parents of Autistic Children by Cytokinesis Block Micronucleus Assay. *NeuroMolecular Medicine*, 23(4), pp. 466–470.

Samei E, **Mozdarani H**, Samiei F, Javadi Gh (2021) Modulating Effect Of Combined Melatonin And Famotidine Treatment On Radiation Induced Apoptosis In Peripheral Blood Leukocytes Of Breast Cancer Patients And Normal Individuals. *Cell Journal*; 23(5), pp. 562–567.

Jalali AH, **Mozdarani H**, Ghanaati H (2021) The Effect Of Contrast Enhanced Abdominopelvic Magnetic Resonance Imaging On Expression And Methylation Level Of ATM And AKT Genes. *Cell Journal*; 23(3), pp. 335–340.

Mozdarani, H., Pakniyat, F., Mozdarani, S., Nosrati, H., Mozdarani, S. (2021) Effects of saffron extract on the frequency of radiation induced chromosomal aberration in G2-lymphocytes of normal individuals and breast cancer patients. *International Journal of Radiation Research*, 19(3), pp. 711–717.

Dizaj, K.A., Monfared, A.S., **Mozdarani, H.**,...Niksirat, F., Borzoueisileh, S. (2021) Combined effect of oral famotidine and cimetidine on the survival of lethally irradiated mice: An in vivo study. *Journal of Cancer Research and Therapeutics*, 17(4), pp. 865–869.

Amirifar P, **Mozdarani H**, Yazdani R, Kiaei F, Moeini Shad T, Shahkarami S et al. (2021) Effect of Class Switch Recombination Defect on the Phenotype of Ataxia-Telangiectasia Patients. *Immunological investigation*, 50(2-3), pp. 201–215.

Mozdarani, H., Azadbakht, O., Klachai, S.G., ...Nosrati, H., Mozdarani, S. Modulating effects of famotidine and melatonin on high dose radiation induced cell lethality in normal human and cancer cell lines. *International Journal of Radiation Research*, 2021, 19(2), pp. 457–463.

Bakhtari N, **Mozdarani H**, Salimi M, Omranipour R (2021) Association study of miR-22 and miR-335 expression levels and G2 assay related inherent radiosensitivity in peripheral blood of ductal carcinoma breast cancer patients. *Neoplasma*; 68(1), pp. 190–199.

Fekrvand S, **Mozdarani H**, Delavari S, Sohani M, Nazari F, Kiaee F, et al. (2020) Evaluation of Radiation Sensitivity in Patients with Hyper IgM Syndrome. *Immunological Investigations*; doi.org/10.1080/08820139.2020.1779288.

Jalali AH, **Mozdarani H**, Ghanaati H (2020) The genotoxic effects of contrast enhanced abdominopelvic 3-tesla magnetic resonance imaging on human circulating leucocytes. *European Journal of Radiology*. 129, 109037.

Heidarizadi A, Salimi M, **Mozdarani H** (2020) Study of DOK4 gene expression and promoter methylation in sporadic breast cancer. *Neoplasma*; doi: 10.4149/neo_2020_190811N747.

Hashemi M-S, **Mozdarani H**, Ghaedi K, Nasr-Esfahani MH (2020) Could analysis of testis-specific genes, as biomarkers in seminal plasma, predict presence of focal spermatogenesis in non-obstructive azoospermia? *Andrologia*, 52(2), e13483.

Samei E., **Mozdarani H**, Samei F., Javadi G. (2020) Radiosensitizing effects of melatonin on radiation induced chromosomal aberration in G2-lymphocytes of breast cancer patients. *International Journal of Radiation Research*, 18(4), pp. 657–662.

Mozdarani H, Ezzatizadeh V, Rahbar PR (2020) The emerging role of the long non-coding RNA *HOTAIR* in breast cancer development and treatment. *J Transl Med*; 18:152.

Taghavi SM, Shadboorestan A, Sabzevari S, Gholami M, Keshavarz-maleki R, **Mozdarani H**, Ostad SN, Sabzevari O (2020) Protective role of EGCG against malathion induced genotoxicity using human lymphocytes. *Drug research*, 70: 360-366.

Welsh J, Bevelacqua J, **Mozdarani H**, Mortazavi S, Mortazavi S. (2020) Why can COVID-19 fatality in space be significantly higher than on Earth?. *Int J Radiat Res*; 18 (3) :421-426.

Pakniyat F, Gholami S, Nedaie H, **Mozdarani H**, Mahmoudzadeh A, Salimi M. (2020) Demonstration of bystander response in high dose technique of grid using theoretical calculation by linear quadratic model along with experimental investigations. *Int J Radiat Res*; 18 (3) :495-504.

Nadi S, Banaei A, **Mozdarani H**, Shabestani Monfared A, Ataei G, Abedi-Firoozjah R. (2020) Evaluating the radioprotective effect of arbutin on mice exposed to megavoltage X-rays based on hematological parameters and lymphocytes micronucleus assay. *Int J Radiat Res*; 18 (2) :275-282.

Parvanehvar S, Tehranian N, Kazemnejad A, **Mozdarani H** (2020) Maternal omentin-1 level, quality of life and marital satisfaction in relation to mode of delivery: a prospective cohort study. *BMC Pregnancy and Childbirth*; 20:136.

Zarei S, Tajbakhsh S, Taheri M, **Mozdarani H**, Jafarzadeh A, Nouri F, et al . (2020) A pre-exposure to RF-EMF can enhance the immune responses of mice following *Salmonella Typhimurium* and *Klebsiella pneumoniae* infections. *Int J Radiat Res*; 18 (2) :333-342.

Ghorbanian Kelachayeh S, Sangtarash M, **Mozdarani H**. (2020)The effects of melatonin on the frequency of micronuclei induced by ionizing radiation in cancerous and normal cell lines. *Int J Radiat Res*; 18 (1) :57-64.

Zangeneh M, Nedaie H A, **Mozdarani H**, Mahmoudzadeh A, Kharrazi Sh, Salimi M. The role and mechanisms of zinc oxide nanoparticles in the improvement of the radiosensitivity of lung cancer cells in clinically relevant megavoltage radiation energies in-vitro. *Nanomed J*. 2019; 6(4): 276-290.

Mozdarani H, Kiaee F, Fekrvand S, Azizi Gh, Yazdani R, Zaki-Dizaji M, Mozdarani Sa, Mozdarani So, Nosrati H, Abolhassani H, Aghamohammadi A (2019) G2-lymphocyte chromosomal radiosensitivity in patients with LPS responsive beige-like anchor protein (LRBA) deficiency, *International Journal of Radiation Biology*, 95:6, 680-690

Ezzatizadeh V, **Mozdarani H** (2019) Does *HOTAIR* expression level in the peripheral blood have veritably predictive/prognostic impact on breast cancer patients? *J Transl Med*, 17:404

Taheri P, Rajabi H, Johari Daha F, Yavari K, Batiar MT, **Mozdarani H** (2019) Cellular dosimetry of beta emitting radionuclides-antibody conjugates for radioimmunotherapy. *Iran J Nucl Med*;27(2):130-138

Zangeneh M.; Nedaei H. A.; **Mozdarani H.**; Mahmoudzadeh A.; Kharrazi S.; Salimi M. (2019) The role and mechanisms of zinc oxide nanoparticles in the improvement of the radiosensitivity of lung cancer cells in clinically relevant megavoltage radiation energies in-vitro. Nano medicine; published.

Sarli, A., **Mozdarani, H.**, Rakhshani, N., Mozdarani, S. (2019)Relationship study of the verified human epidermal growth factor receptor 2 amplification with other tumor markers and clinicohistopathological characteristics in patients with invasive breast cancer, using chromogenic in situ hybridization .Cell Journal, 21(3), 322-330.

Saghaei H, **Mozdarani H**, Mahmoudzadeh A. (2019) Sperm DNA damage in mice irradiated with various doses of X-rays alone or in combination with actinomycin D or bleomycin sulfate: an in vivo study. Int J Radiat Res. 17 (2):317-323

Kargar Shouroki, F., Neghab, M., **Mozdarani, H**, Alipour, H, Yousefinejad, S, Fardid, R. (2019) Genotoxicity of inhalational anesthetics and its relationship with the polymorphisms of GSTT1, GSTM1, and GSTP1 genes. Environmental Science and Pollution Research, 26, (4); 3530-3541.

Masoumeh Zangeneh, Hassan Ali Nedaei, **Hossein Mozdarani***, Aziz Mahmoudzadeh, Mahdieh Salimi (2019) Enhanced cytotoxic and genotoxic effects of Gadolinium-doped ZnO nanoparticles on irradiated lung cancer cells at megavoltage radiation energies. Materials Science & Engineering C; doi.org/10.1016/j.msec.2019.109739.

Samanian S, **Mozdarani H**, Behmanesh M, Nasli-esfahani E (2019) association of intrinsic and induced genomic instability in peripheral blood lymphocytes of type 2 diabetes patients with expression level of genes prkcb and sp1) and micrnas (mir-126 and mir-15a-3p). Acta Medica Mediterranea, 35: 777.

Hashemi M-S, **Mozdarani H**, Ghaedi K, Nasr-Esfahani MH (2018) Among seven testis-specific molecular markers, SPEM1 appears to have a significant clinical value for prediction of sperm retrieval in azoospermic men. Andrology; doi: 10.1111/andr.12528.

Hashemi M-S., **Mozdarani H.**, Ghaedi K., Nasr-Esfahani M.H. (2018) Expression of ZMYND15 in Testes of Azoospermic Men and Association with Sperm Retrieval. **Urology**, doi.org/10.1016/j.urology.2017.12.023

Nguyen N.M.P., Khawajkie Y., Mechtouf N., Rezaei M., Breguet M., Kurvinen E., Jagadeesh S., Solmaz A.E., Aguinaga M., Hemida R., Harma M.I., Rittore C., Rahimi K., Arseneau J., Hovanes K., Clisham R., Lenzi T., Scurry B., Addor M-C., Bagga R., Nendaz G.G., Finci V., Poke G., Grimes L., Gregersen N., York K., Bolze P-A., Patel C., **Mozdarani H.**, Puechberty J., Scotchie J., Fardaei M., Harma M., Gardner R.J.M., Sahoo T., Dudding-Byth T., Srinivasan R., Sauthier P., Slim R. (2018) The genetics of recurrent hydatidiform moles: new insights and lessons from a comprehensive analysis of 113 patients. **Modern Pathology** (2018) doi:10.1038/s41379-018-0031-9.

Zarei H., **Mozdarani H.***, Mahmoudzadeh A., Salimi M., Eyni H., Bakhshandeh M. (2018) Quantitative evaluation of abscopal effect based on biological effective dose in breast cancer tumors in mice. **Int. J. Radiat. Res.**, 16 (1).

Bagheri H., Rezapour S., Najafi M., Motevaseli E., Shekarchi B., Cheki M., Mozdarani H.* (2018) Protection Against Radiation-Induced Micronuclei in Rat Bone Marrow Erythrocytes by Curcumin and Selenium L-Methionine. **Iranian Journal of Medical Sciences, accepted, in press.**

Zarei H., **Mozdarani H. ***, Mahmoudzadeh A., Bakhshandeh M., Nayeri N.D. (2017) The probability

of influence of the abscopal effect on reduction of similar far away 4T1 cell line tumors by irradiation of main tumor. *Journal of Paramedical Sciences (JPS)*, 8(3), 22-28.

Moghbelinejad S, Mozdarani H., Ghoraieian P., Asadi R. (2017) A review of basic and clinical genetic studies on male infertility in Iran; An experience during the years 2000-2016. IJRM, Published.

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