

مهدى توتونچى

دانشیار

محل خدمت: پژوهشگاه علوم سلوی (رویان)

سوابق تحصیلی

دانشگاه	رشته و گرایش تحصیلی	سال اخذ مدرک	مقطع تحصیلی
دانشگاه علم و فرهنگ	علوم جانوری	۱۳۹۲	دکترای تخصصی

اطلاعات استخدامی

پایه	نوع همکاری	نوع استخدام	عنوان سمت	محل خدمت
	تمام وقت	رسمی قطعی	عضو هیات علمی	پژوهشگاه رویان

سوابق اجرایی

عضو هیات علمی پژوهشگاه رویان

مقالات در نشریات

- Mirbahari, S.N., Amorim, C.A., Hassani, F., (...), valojerdi, M.R., Dalman, A., In-vitro generation of .1 follicle-like structures from human germ cell-like cells derived from theca stem cell combined .with ovarian somatic cells,Journal of Ovarian Research,2024
- Abdollahzadeh, F., Khoshdel ,& Rad, N., Bahrehbar, K., (...), Totonchi, M., Moghadasali, .2 R.,Enhancing maturity in 3D kidney micro-tissues through clonogenic cell combinations and .endothelial integration,Journal of Cellular and Molecular Medicine,2024
- Fouladvandi, R., Masoudi, A.A., Totonchi, M., Hezavehei, M., Sharafi, M.,Effects of different .3 extenders on epigenetic patterns and functional parameters of bull sperm during .cryopreservation process,Reproduction in Domestic Animals,2024
- Najafi Salehi, J., Eimani, H., Shahverdi, A., (...), Taher Mofrad, S.M.J., Tahaei, L.S.,Improvement .4 of Mouse Preantral Follicle Survival and Development following Co-Culture with Ovarian .Parenchyma Cell Suspension,International Journal of Fertility and Sterility,2024
- Azimi, P., Karimpour, M., Yazdanian, T., Totonchi, M., Ahmadiani, A.,Comprehensive somatic .5 mutational analysis in glioblastoma: Implications for precision medicine approaches,PLoS .ONE,2024
- Karimpour, M., Totonchi, M., Behmanesh, M., Montazeri, H.,Pathway-driven analysis of .6 synthetic lethal interactions in cancer using perturbation screens,Life Science Alliance,2024
- Mirbahari, S.N., Da Silva, M., Zuniga, A.I.M., (...), Totonchi, M., Azad, T.,Recent progress in .7 combination therapy of oncolytic vaccinia virus,Frontiers in Immunology,2024
- Heli, H., Sahraei, A., Asadi, R., (...), Totonchi, M., Aliakbarian, H.,A New Setup for Microwave .8

- Exposure to Pathogenic Samples,Iranian Journal of Science and Technology - Transactions of Electrical Engineering,2024
- Nouri ,& Keshtkar, M., Shojaei Shahrokhabadi, M., Ghaheri, A., (...), Tahamtani, Y., Totonchi, .9
M.,Role of gender in explaining metabolic syndrome risk factors in an Iranian rural population
.using structural equation modelling,Scientific Reports,2023
- Salehi, N., Totonchi, M,The construction of a testis transcriptional cell atlas from embryo to .10
adult reveals various somatic cells and their molecular roles,Journal of Translational
.Medicine,2023
- Kolahdouzmoammadi, M., Kolahdouz ,& Mohammadi, R., Tabatabaei, S.A., Franco, B., .11
Totonchi, M,Revisiting the Role of Autophagy in Cardiac Differentiation: A Comprehensive Review
.of Interplay with Other Signaling Pathways,Genes,2023
- Sharbatoghi, M., Zanjani, L.S., Fattahi, F., (...), Asadi ,& Lari, M., Madjd, Z.,The Association .12
Between Higher Expression of Talin-1 and the Reduced Survival Rate in Ovarian Serous
.Carcinoma Patients,Iranian Journal of Pathology,2023
- Saboori ,& Darabi, S., Carrera, P., Akbari, A., (...), Mazaheri, M., Totonchi, M.,A heterozygous .13
missense variant in DLX3 leads to uterine leiomyomas and pregnancy losses in a
.consanguineous Iranian family,Gene,2023
- Shokouhian, B., Negahdari, B., Heydari, Z., (...), Mostafavi, E., Vosough, M.,HNF4alpha is .14
possibly the missing link between epithelial-mesenchymal transition and Warburg effect during
.hepatocarcinogenesis,Cancer Science,2023
- Kolahdouzmoammadi, M., Pahlavan, S., Sotoodehnejadnematalahi, F., Tahamtani, Y., .15
Totonchi, M.,Activation of AMPK promotes cardiac differentiation by stimulating the autophagy
.pathway,Journal of Cell Communication and Signaling,2023
- Dalman, A., Adib, S., Amorim, C.A., (...), Totonchi, M., Valojerdi, M.R.,Co-culture of human .16
cryopreserved fragmented ovarian tissue with theca progenitor cells derived from theca stem
.cells,Journal of Assisted Reproduction and Genetics,2023
- Fatemi, N., Karimpour, M., Bahrami, H., (...), Nazemalhosseini ,& Mojarrad, E., Totonchi, .17
M.,Current trends and future prospects of drug repositioning in gastrointestinal
.oncology,Frontiers in Pharmacology,2023
- Fatemi, N., Tu, S. , J., Chung, C. , C., (...), Aghdaei, H.A., Chang, J. , G.,Whole exome .18
sequencing identifies MAP3K1, MSH2, and MLH1 as potential cancer-predisposing genes in
.familial early-onset colorectal cancer,Kaohsiung Journal of Medical Sciences,2023
- Rahimian, M., Askari, M., Salehi, N., (...), Almadani, N., Totonchi, M.,A novel missense variant .19
in CDK5RAP2 associated with non-obstructive azoospermia,Taiwanese Journal of Obstetrics and
.Gynecology,2023
- Fatemi, N., Tierling, S., Es, H.A., (...), Walter, J., Totonchi, M.,DNA methylation biomarkers in .20
colorectal cancer: Clinical applications for precision medicine,International Journal of
.Cancer,2022
- Sharbatoghi, M., Shamshiripour, P., Fattahi, F., (...), Madjd, Z., Saeednejad Zanjani, L.,Co- .21
expression of cancer stem cell markers, SALL4/ALDH1A1, is associated with tumor
aggressiveness and poor survival in patients with serous ovarian carcinoma,Journal of Ovarian
.Research,2022
- Moradi, M., Zhandi, M., Sharafi, M., (...), Atrabi, M.J., Totonchi, M.,Gene expression profile of .22
.placentomes and clinical parameters in the cows with retained placenta,BMC Genomics,2022
- Saraee, F., Shekari, F., Moini, A., (...), Totonchi, M., Eftekhari ,& Yazdi, P.,Human uterine fluid .23
lavage-derived extracellular vesicle isolation: a comparative study for minimally invasive
.endometrial receptivity assessment,Reproductive BioMedicine Online,2022
- Sharbatoghi, M., Fattahi, F., Aboulkheyr Es, H., (...), Totonchi, M., Madjd, Z.,Copy Number .24
Variation of Circulating Tumor DNA (ctDNA) Detected Using NIPT in Neoadjuvant Chemotherapy-
.Treated Ovarian Cancer Patients,Frontiers in Genetics,2022

- Farhadi, A., Totonchi, M., Nabavi, S.M., (...), Tahamtani, Y., Shahpasand, K., P38 initiates .25 degeneration of midbrain GABAergic and glutamatergic neurons in diabetes models,European .Journal of Neuroscience,2022
- Abdolahzadeh, H., Mohammadi, P., Ghasemi, M., (...), Aghdam, N., Shafieyan, S., Comparison .26 of Skin Transcriptome between Responder and Non-Responder Vitiligo Lesions to Cell .Transplantation: A Clinical Trial Study,Cell Journal,2022
- Akbari, A., Zoha Tabatabaei, S., Salehi, N., (...), Motavaseli, E., Totonchi, M., Novel STAG3 .27 variant associated with primary ovarian insufficiency and non-obstructive azoospermia in an .Iranian consanguineous family,Gene,2022
- Hesaraki, M., Bora, U., Pahlavan, S., (...), Ozhan, G., Totonchi, M., A Novel Missense Variant in .28 Actin Binding Domain of MYH7 Is Associated With Left Ventricular Noncompaction,Frontiers in .Cardiovascular Medicine,2022
- Nabi, S., Askari, M., Rezaei ,& Gazik, M., (...), Tahamtani, Y., Totonchi, M., A rare frameshift .29 mutation in SYCP1 is associated with human male infertility,Molecular Human .Reproduction,2022
- Faam, B., Ghadiri, A.A., Ghaffari, M.A., (...), Fanaei, S.A., Khorsandi, L., CpG Island Methylation .30 of the Rap1Gap Gene in Medullary Thyroid Cancer,Archives of Iranian Medicine,2022
- Rezaei , Gazik, M., Vargas, A., Amiri , Yekta, A., (...), Rousseaux, S., Totonchi, M., Direct .31 visualization of pre-protamine 2 detects protamine assembly failures and predicts ICSI .success,Molecular Human Reproduction,2022
- Hajati, F., Kashi, A.M., Totonchi, M., Valojerdi, M.R., Post-thawing and culture comparison of .32 three routine slow freezing methods for human ovarian tissue cryopreservation: Histological, .molecular, and hormonal aspects,Cryobiology,2022
- Azimi, M., Totonchi, M., Ebrahimi, M., Determining The Role of MicroRNAs in Self-Renewal, .33 Metastasis and Resistance to Drugs in Human Gastric Cancer Based on Data Mining .Approaches: A Systematic Review,Cell Journal,2022
- Hassani, S. , N., Totonchi, M., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H., Correction .34 to: Inhibition of TGFbeta Signaling Promotes Ground State Pluripotency (Stem Cell Reviews and .Reports,Stem Cell Reviews and Reports,2022
- Fatemi, N., Varkiani, M., Ramazanali, F., Almadani, N., Totonchi, M., A familial case of .35 recurrent hydatidiform mole with p.Asp108Ilefs~~30~~ causing mutation in KHDC3L: A genetic and .clinical report,Taiwanese Journal of Obstetrics and Gynecology,2022
- Kolahdouzmoammadi, M., Pahlavan, S., Tahamtani, Y., Sotoodehnejadnematalahi, F., .36 Totonchi, M., Step by Step Design of Popular and Common Vectors in Genetic Manipulation Using .CRISPR/Cas9 System,Scientific Journal of Kurdistan University of Medical Sciences,2022
- Salehi, N., Karimi , Jafari, M.H., Totonchi, M., Amiri , Yekta, A., Integration and gene co- .37 expression network analysis of scRNA-seq transcriptomes reveal heterogeneity and key .functional genes in human spermatogenesis,Scientific Reports,2021
- Hosseini, V., Kalantary ,& Charvadeh, A., Hajikarami, M., (...), Totonchi, M., Darabi, M., A small .38 molecule modulating monounsaturated fatty acids and Wnt signaling confers maintenance to induced pluripotent stem cells against endodermal differentiation,Stem Cell Research and .Therapy,2021
- Ranjbari, S., Khatibi, T., Vosough Dizaji, A., (...), Totonchi, M., Ghaffari, F., CNFE-SE: a novel .39 approach combining complex network-based feature engineering and stacked ensemble to predict the success of intrauterine insemination and ranking the features,BMC Medical .Informatics and Decision Making,2021
- Faraji, S., Rashki Ghaleno, L., Sharafi, M., (...), Shahverdi, A., Fathi, R., Gene Expression .40 Alteration of Sperm-Associated Antigens in Human Cryopreserved Sperm,Biopreservation and .Biobanking,2021
- Es, H.A., Mahdizadeh, H., Asl, A.A.H., Totonchi, M., Genomic alterations and possible .41

- .druggable mutations in carcinoma of unknown primary (CUP),*Scientific Reports*,2021
Fatemi, N., Salehi, N., Pignata, L., (...), Riccio, A., Totonchi, M.,Biallelic variant in cyclin B3 is .42 associated with failure of maternal meiosis II and recurrent digynic triploidy,*Journal of Medical Genetics*,2021
Fatemi, N., Salehi, N., Pignata, L., (...), Riccio, A., Totonchi, M.,Biallelic variant in cyclin B3 is .43 associated with failure of maternal meiosis II and recurrent digynic triploidy,*Journal of Medical Genetics*,2021
Shabani, M., Totonchi, M., Rezaeimirghaed, O., (...), Abedheydari, E., Sahraei, Z.,Evaluation of .44 the prophylactic effect of hydroxychloroquine on people in close-contact with patients with COVID-19,*Pulmonary Pharmacology and Therapeutics*,2021
Nikasa, P., Rabbani, B., Hejazi, M.S., (...), Totonchi, M., Mahdieh, N.,A case of autosomal .45 recessive hypercholesterolemia with a novel mutation in the *Idlrp1* gene,*Clinical Pediatric Endocrinology*,2021
Zidoune, H., Martinerie, L., Tan, D.S., (...), Bashamboo, A., McElreavey, K.,Expanding DSD .46 Phenotypes Associated with Variants in the DEAH-Box RNA Helicase DHX37,*Sexual Development*,2021
Faam, B., Ghaffari, M.A., Khorsandi, L., (...), Shahbazian, H.B., Hashemi Tabar, M.,RAP1GAP .47 functions as a tumor suppressor gene and is regulated by DNA methylation in differentiated thyroid cancer,*Cytogenetic and Genome Research*,2021
Ghodsizadeh, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Correction to: .48 Generation of Liver Disease-Specific Induced Pluripotent Stem Cells along with Efficient Differentiation to Functional Hepatocyte-like Cells (*Stem Cell Reviews and Reports*,*Stem Cell Reviews and Reports*,2021
Nikasa, P., Tricot, T., Mahdieh, N., (...), Hejazi, M.S., Verfaillie, C.M.,Patient-Specific Induced .49 Pluripotent Stem Cell-Derived Hepatocyte-Like Cells as a Model to Study Autosomal Recessive Hypercholesterolemia,*Stem Cells and Development*,2021
Nouri ,& Keshtkar, M., Taghizadeh, S., Farhadi, A., (...), Bellusci, S., Tahamtani, Y.,Potential .50 Impact of Diabetes and Obesity on Alveolar Type 2 (AT2)-Lipofibroblast (LIF) Interactions After COVID-19 Infection,*Frontiers in Cell and Developmental Biology*,2021
Alizad ,& Rahvar, A.R., Vafadar, S., Totonchi, M., Sadeghi, M.,False Negative Mitigation in .51 Group Testing for COVID-19 Screening,*Frontiers in Medicine*,2021
Hadi, F., Akrami, H., Totonchi, M., (...), Nabavi, S.M., Shahpasand, K.,alpha-synuclein .52 abnormalities trigger focal tau pathology, spreading to various brain areas in Parkinson disease,*Journal of Neurochemistry*,2021
Akbari, A., Padidar, K., Salehi, N., (...), McElreavey, K., Totonchi, M.,Rare missense variant in .53 MSH4 associated with primary gonadal failure in both 46, XX and 46, XY individuals,*Human Reproduction*,2021
Kolahdouzmoammadi, M., Totonchi, M., Pahlavan, S.,The Role of iPSC Modeling Toward .54 Projection of Autophagy Pathway in Disease Pathogenesis: Leader or Follower,*Stem Cell Reviews and Reports*,2021
Fatemi, N., Ray, P.F., Ramezanali, F., (...), Biglari, A., Totonchi, M.,KH domain containing 3 like .55 (KHDC3L) frame-shift mutation causes both recurrent pregnancy loss and hydatidiform mole,*European Journal of Obstetrics and Gynecology and Reproductive Biology*,2021
Khatibi, T., Rezaei, N., Ataei Fashtami, L., Totonchi, M.,Proposing a novel unsupervised stack .56 ensemble of deep and conventional image segmentation (SEDCIS) method for localizing vitiligo lesions in skin images,*Skin Research and Technology*,2021
Totonchi, M., Najafi, H., Valojerdi, M.R., (...), Mashayekhi, M., Madani, T.,Preimplantation .57 genetic screening and the success rate of in vitro fertilization: A three-years study on Iranian population,*Cell Journal*,2021
Nedaei, K., Hesaraki, M., Mazloomzadeh, S., Totonchi, M., Biglari, A.R.,Lentiviral Mediated .58

- Expression of Soluble Neuropilin 1 Inhibits Semaphorin 3A-mediated Collapse Activity in .*Vitro*,Basic and Clinical Neuroscience,2021
- Azimi, M., Totonchi, M., Rahimi, M., (...), Kamali, F., Ebrahimi, M., An integrated analysis to predict micro-RNAs targeting both stemness and metastasis in human gastric cancer,*Journal of Gastroenterology and Hepatology (Australia)*,2021
- Faam, B., Ghadiri, A.A., Ghaffari, M.A., Totonchi, M., Khorsandi, L., Comparing oxidative stress status among iranian males and females with malignant and non-malignant thyroid nodules,*International Journal of Endocrinology and Metabolism*,2021
- Sadeghi, H., Kamal, A., Ahmadi, M., (...), Lashkari, M., Totonchi, M., A novel panel of blood-based microRNAs capable of discrimination between benign breast disease and breast cancer at early stages,*RNA Biology*,2021
- Fatemi, N., Varkiani, M., Ramezanali, F., (...), Biglari, A., Totonchi, M., Risk Factors Associated with Recurrent Pregnancy Loss and Outcome of Pre-Implantation Genetic Screening of Affected Couples,*International Journal of Fertility and Sterility*,2021
- Sharbatoghli, M., Vafaei, S., Aboulkheyr Es, H., (...), Totonchi, M., Madjd, Z., Prediction of the treatment response in ovarian cancer: a ctDNA approach,*Journal of Ovarian Research*,2020
- Khodaee, S., Asgari, Y., Totonchi, M., Karimi , & Jafari, M.H., iMM1865: A New Reconstruction of Mouse Genome-Scale Metabolic Model,*Scientific Reports*,2020
- Hosseini, V., Kalantary ,& Charvadeh, A., Hasegawa, K., (...), Darabi, M., Totonchi, M., A mechanical non-enzymatic method for isolation of mouse embryonic fibroblasts,*Molecular Biology Reports*,,2020
- Rahimmanesh, I., Totonchi, M., Khanahmad, H., The challenging nature of primary T lymphocytes for transfection: Effect of protamine sulfate on the transfection efficiency of chemical transfection reagents,*Research in Pharmaceutical Sciences*,2020
- Curry, J.N., Saurette, M., Askari, M., (...), Yu, A.S., Atala, A., Re: Claudin-2 Deficiency Associates with Hypercalciuria in Mice and Human Kidney Stone Disease,*Journal of Urology*,2020
- Khosravizadeh, Z., Hassanzadeh, G., Tavakkoly Bazzaz, J., (...), Hosseini, S.R., Abolhassani, F., The effect of cryopreservation on DNA methylation patterns of the chromosome 15q11-q13 region in human spermatozoa,*Cell and Tissue Banking*,2020
- Salehi, N., Amiri ,& Yekta, A., Totonchi, M., Profiling of initial available SARS-CoV-2 sequences from iranian related COVID-19 patients,*Cell Journal*,2020
- Li, Y., Tahamtani, Y., Totonchi, M., (...), Gholampour, Y., Li, X., Challenges of Iranian clinicians in dealing with COVID-19: Taking advantages of the experiences in Wenzhou,*Cell Journal*,2020
- Askari, M., Rastari, M., Seresht , Ahmadi, M., (...), Razzaghy , Azar, M., Totonchi, M., A missense mutation in NR5A1 causing female to male sex reversal: A case report,*Andrologia*,2020
- Ezenou, C., Gonen, N., Touzon, M.S., (...), Rajkovic, A., Bashamboo, A., Testis formation in XX individuals resulting from novel pathogenic variants in Wilms' tumor 1 (WT1) gene,*Proceedings of the National Academy of Sciences of the United States of America*,2020
- Najafi, H., Totonchi, M., Sadeghizadeh, M., Predicted Cellular and Molecular Actions of Lithium in the Treatment of Bipolar Disorder: An In Silico Study,*CNS Drugs*,2020
- Alimohammadi, F., Ebrahimi Nasab, M., Rafaei, A., (...), Sadighi Gilani, M.A., Sabbaghian, M., Corrigendum to: Deletion of dpy-19 like 2 (DPY19L2) gene is associated with total but not partial globozoospermia,*Reproduction, fertility, and development*,2020
- Curry, J.N., Saurette, M., Askari, M., (...), Matsuda, K., Yu, A.S.L., Claudin-2 deficiency associates with hypercalciuria in mice and human kidney stone disease,*Journal of Clinical Investigation*,2020
- Saedi, S., Jafarzadeh Shirazi, M.R., Totonchi, M., Zamiri, M.J., Derakhshanfar, A., Effect of Prepubertal Exposure to CdCl₂ on the Liver, Hematological, and Biochemical Parameters in

- .Female Rats; an Experimental Study,Biological Trace Element Research,2020
Saedi, S., Shirazi, M.R.J., Zamiri, M.J., (...), Dadpasand, M., Sedaghati, F.,Impaired follicular .77
development and endocrine disorders in female rats by prepubertal exposure to toxic doses of
.cadmium,Toxicology and Industrial Health,2020
- Shahriari, F., Satarian, L., Moradi, S., (...), Braun, T., Baharvand, H.,MicroRNA profiling reveals .78
important functions of miR-125b and let-7a during human retinal pigment epithelial cell
.differentiation,Experimental Eye Research,2020
- Rezaei, Z., Ebrahimpour ,& Komleh, H., Eslami, B., Chavoshinejad, R., Totonchi, M.,Adverse .79
.drug reaction detection in social media by deep learning methods,Cell Journal,2020
- Alimohammadi, F., Nasab, M.E., Rafaee, A., (...), Gilani, M.A.S., Sabbaghian, M.,Deletion of .80
dpy-19 like 2 (DPY19L2) gene is associated with total but not partial
.globozoospermia,Reproduction, Fertility and Development,2020
- Askari, M., Tamandani, D.M.K., Almadani, N., Totonchi, M.,Strategies for whole-exome .81
sequencing analysis in a case series study of familial male infertility,International Journal of
.Reproductive BioMedicine,2020
- Askari, M., Karamzadeh, R., Ansari ,& Pour, N., (...), McElreavey, K., Totonchi, M.,Identification .82
.of a missense variant in CLDN2 in obstructive azoospermia,Journal of Human Genetics,2019
- Yarahmadi, E., Borjian Boroujeni, P., Totonchi, M., Gourabi, H.,Genotyping of the EIF1AY Gene .83
.in Iranian Patients with Non-Obstructive Azoospermia,Current Urology,2019
- Khoshchehreh, R., Totonchi, M., Carlos Ramirez, J., (...), Ebrahimi, M., Heeschen, .84
C.,Epigenetic reprogramming of primary pancreatic cancer cells counteracts their in vivo
.tumourigenicity,Oncogene,2019
- Magharehabed, M., Almadani, N., Askari, M., (...), Masoudi, N. ,& S., Totonchi, M.,Rare case of .85
.an oligospermic male with 46,XX/46,XY tetragametic chimerism,Andrologia,2019
- Mansoori ,& Moghadam, Z., Totonchi, M., Hesaraki, M., (...), Baharvand, H., Moghadasali, .86
R.,Programming of ES cells and reprogramming of fibroblasts into renal lineage-like
.cells,Experimental Cell Research,2019
- Akbari, A., Pipitone, G.B., Anvar, Z., (...), Carrera, P., Totonchi, M.,ADCY10 frameshift variant .87
leading to severe recessive asthenozoospermia and segregating with absorptive
.hypercalciuria,Human Reproduction,2019
- Najafi, H., Naseri, M., Zahiri, J., Totonchi, M., Sadeghizadeh, M.,Identification of the Molecular .88
Events Involved in the Development of Prefrontal Cortex Through the Analysis of RNA-Seq Data
.From BrainSpan,ASN Neuro,2019
- Askari, M., Kordi ,& Tamandani, D.M., Almadani, N., McElreavey, K., Totonchi, M.,Identification .89
.of a homozygous GFPT2 variant in a family with asthenozoospermia,Gene,2019
- Farhangi, S., Dehghan, S., Totonchi, M., Javan, M.,In vivo conversion of astrocytes to .90
oligodendrocyte lineage cells in adult mice demyelinated brains by Sox2,Multiple Sclerosis and
.Related Disorders,2019
- Jannesari, M., Habibzadeh, M., Abulkheyr, H., (...), Totonchi, M., Hajirasouliha, I.,Breast .91
Cancer Histopathological Image Classification: A Deep Learning Approach,Proceedings - 2018
.IEEE International Conference on Bioinformatics and Biomedicine, BIBM 2018,2019
- Dalman, A., Totonchi, M., Valojerdi, M.R.,Human ovarian theca-derived multipotent stem cells .92
.have the potential to differentiate into oocyte-like cells in vitro,Cell Journal,2019
- Dalman, A., Totonchi, M., Valojerdi, M.R.,Establishment and characterization of human theca .93
stem cells and their differentiation into theca progenitor cells,Journal of Cellular
.Biochemistry,2018
- Jafari, N., Giehr, P., Hesaraki, M., (...), Baharvand, H., Totonchi, M.,Genomic integrity of .94
.ground-state pluripotency,Journal of Cellular Biochemistry,2018
- Monsef, L., Borjian Boroujeni, P., Totonchi, M., Sabbaghian, M., Mohseni Meybodi, A.,Gene .95
alterations and expression spectrum of SPATA33 in nonobstructive azoospermic Iranian

- .men,Molecular Reproduction and Development,2018
Shokraii, F., Moharrami, M., Motamed, N., (...), Khosravani, P., Ebrahimi, M., Histone .96
modification marks strongly regulate Cdh1 promoter in prostospheres as a model of prostate
.cancer stem like cells,Cell Journal,2018
Moazenchi, M., Totonchi, M., Salman Yazdi, R., (...), Chehrazi, M., Mohseni Meybodi, A., The .97
impact of Chlamydia trachomatis infection on sperm parameters and male fertility: A
.comprehensive study,International Journal of STD and AIDS,2018
Ghezelayagh, Z., Totonchi, M., Zarei , Moradi, S., (...), Gourabi, H., Mohseni , Meybodi, A., The .98
impact of genetic variation and gene expression level of the follicle-stimulating hormone
.receptor on ovarian reserve,Cell Journal,2018
Amerion, M., Valojerdi, M.R., Abroun, S., Totonchi, M., Long term culture and differentiation of .99
.endothelial progenitor like cells from rat adipose derived stem cells,Cytotechnology,2018
Habibzadeh, M., Jannesari, M., Rezaei, Z., Baharvand, H., Totonchi, M., Automatic white .100
blood cell classification using pre-trained deep learning models: ResNet and
.Inception,Proceedings of SPIE - The International Society for Optical Engineering,2018
Boroujeni, P.B., Sabbaghian, M., Totonchi, M., (...), Sadighi ,& Gilani, M.A., Gourabi, .101
H.,Expression analysis of genes encoding TEX11, TEX12, TEX14 and TEX15 in testis tissues of
.men with non-obstructive azoospermia,Jornal Brasileiro de Reproducao Assistida,2018
Samadian, A., Hesaraki, M., Mollamohammadi, S., (...), Totonchi, M., Baharvand, .102
H.,Temporal gene expression and DNA methylation during embryonic stem cell derivation,Cell
.Journal,2018
Lotfipanah, M., Azadeh, F., Totonchi, M., Omani ,& Samani, R.,Attitude of a sample of iranian .103
.researchers toward the future of stem cell research,Cell Journal,2018
Sharifi , Zarchi, A., Gerovska, D., Adachi, K., (...), Baharvand, H., Arauzo , Bravo, M.J.,DNA .104
methylation regulates discrimination of enhancers from promoters through a H3K4me1-
.H3K4me3 seesaw mechanism,BMC Genomics,2017
Dalman, A., Deheshkar Gooneh Farahani, N.S., Totonchi, M., (...), Ebrahimi, B., Rezazadeh .105
Valojerdi,...,Slow freezing versus vitrification technique for human ovarian tissue
cryopreservation: An evaluation of histological changes, WNT signaling pathway and apoptotic
.genes expression,Cryobiology,2017
Totonchi, M., Hassani, S. , N., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H.,Blockage .106
of the Epithelial-to-Mesenchymal Transition Is Required for Embryonic Stem Cell Derivation,Stem
.Cell Reports,2017
Mohammadpour Lashkari, F., Totonchi, M., Zamanian, M.R., (...), Sabbaghian, M., Mohseni .107
Meybodi, A.,46,XX males: a case series based on clinical and genetics
.evaluation,Andrologia,2017
Motamed, M., Sadr, Z., Valojerdi, M.R., (...), Taghiabadi, E., Fathi, R.,Tissue Engineered .108
Human Amniotic Membrane Application in Mouse Ovarian Follicular Culture,Annals of
.Biomedical Engineering,2017
Eslami, A., Farahmand, K., Totonchi, M., (...), Gourabi, H., Mohseni ,& Meybodi, A.,FMR1 .109
premutation: not only important in premature ovarian failure but also in diminished ovarian
.reserve,Human Fertility,2017
Farahmand, K., Totonchi, M., Hashemi, M., (...), Gourabi, H., Meybodi, A.M.,Thrombophilic .110
genes alterations as risk factor for recurrent pregnancy loss,Journal of Maternal-Fetal and
.Neonatal Medicine,2016
Hosseinifar, H., Yazdanikhah, S., Modarresi, T., (...), Sadighi Gilani, M.A., Sabbaghian, .111
M.,Correlation between sperm DNA fragmentation index and CMA3 positive spermatozoa in
.globozoospermic patients,Andrology,2015
Sharifi ,& Zarchi, A., Totonchi, M., Khaloughi, K., (...), Chitsaz, H., Sadeghi, M.,Increased .112
robustness of early embryogenesis through collective decision-making by key transcription

- .factors,BMC Systems Biology,2015
Dorri, F., Mahini, H., Sharifi ,& Zarchi, A., (...), Pezeshk, H., Sadeghi, M.,Natural biased coin .113
.encoded in the genome determines cell strategy,PLoS ONE,2014
Sarkardeh, H., Totonchi, M., Asadpour, O., (...), Borjian Boroujeni, P., Gourabi, H.,Association .114
of MOV10L1 gene polymorphisms and male infertility in azoospermic men with complete
.maturation arrest,Journal of Assisted Reproduction and Genetics,2014
Kalantari, H., Asia, S., Totonchi, M., (...), Gourabi, H., Mohseni Meybodi, A.,Delineating the .115
association between isodicentric chromosome y and infertility: A retrospective study,Fertility and
.Sterility,2014
Hassani, S. , N., Totonchi, M., Sharifi , Zarchi, A., (...), Scholer, H.R., Baharvand, H.,Inhibition .116
.of TGFbeta Signaling Promotes Ground State Pluripotency,Stem Cell Reviews and Reports,2014
Hassani, S. ,& N., Totonchi, M., Gourabi, H., Scholer, H.R., Baharvand, H.,Signaling roadmap .117
.modulating naive and primed pluripotency,Stem Cells and Development,2014
Fattahi, F., Asgari, S., Pournasr, B., (...), Salekdeh, G.H., Baharvand, H.,Disease-corrected .118
hepatocyte-like cells from familial hypercholesterolemia- induced pluripotent stem
.cells,Molecular Biotechnology,2013
Asadpor, U., Totonchi, M., Sabbaghian, M., (...), Gourabi, H., Mohseni Meybodi, A.,Ubiquitin- .119
specific protease (USP26) gene alterations associated with male infertility and recurrent
pregnancy loss (RPL) in Iranian infertile patients,Journal of Assisted Reproduction and
.Genetics,2013
Rajabpour , Niknam, M., Totonchi, M., Shahhosseini, M., (...), Alipour, H., Eftekhari , Yazdi, .120
P.,Quantitative expression of developmental genes, Pou5f1 (Oct4) and mest (Peg1), in vitrified
.mouse embryos,International Journal of Reproductive BioMedicine,2013
Zahabi, A., Shahbazi, E., Ahmadieh, H., (...), Salekdeh, G.H., Baharvand, H.,A new efficient .121
protocol for directed differentiation of retinal pigmented epithelial cells from normal and retinal
.disease induced pluripotent stem cells,Stem Cells and Development,2012
Totonchi, M., Mohseni Meybodi, A., Borjian Boroujeni, P., (...), Almadani, N., Gourabi, .122
H.,Clinical data for 185 infertile Iranian men with Y-chromosome microdeletion,Journal of
.Assisted Reproduction and Genetics,2012
Hassani, S. ,& N., Totonchi, M., Farrokhi, A., (...), Gourabi, H., Baharvand, H.,Simultaneous .123
Suppression of TGF-beta and ERK Signaling Contributes to the Highly Efficient and Reproducible
Generation of Mouse Embryonic Stem Cells from Previously Considered Refractory and Non-
.permissive Strains,Stem Cell Reviews and Reports,2012
Barekat, Z., Golkar ,& Narenji, A., Totonchi, M., Radpour, R., Gourabi, H.,Effects of amifostine .124
in combination with cyclophosphamide on female reproductive system,Reproductive
.Sciences,2012
Pournasr, B., Khaloughi, K., Salekdeh, G.H., (...), Shahbazi, E., Baharvand, H.,Concise review: .125
Alchemy of biology: Generating desired cell types from abundant and accessible cells,Stem
.Cells,2011
Larijani, M.R., Seifinejad, A., Pournasr, B., (...), Salekdeh, G.H., Baharvand, H.,Long-term .126
maintenance of undifferentiated human embryonic and induced pluripotent stem cells in
.suspension,Stem cells and development,2011
Piltan, A., Totonchi, M., Rezazadeh, M., (...), Eslaminejad, M.B., Yazdi, P.E.,Quantitative .127
expression of BAG1, BAX and BCL-2 genes in human embryos with different fragmentation
.grades derived from ART,Yakhteh,2010
Taei, A., Gourabi, H., Seifinejad, A., (...), Karimian, L., Baharvand, H.,Derivation of new human .128
embryonic stem cell lines from preimplantation genetic screening and diagnosis-analyzed
.embryos,In Vitro Cellular and Developmental Biology - Animal,2010
Pakzad, M., Totonchi, M., Taei, A., (...), Hassani, S.N., Baharvand, H.,Presence of a ROCK .129
inhibitor in extracellular matrix supports more undifferentiated growth of feeder-free human

- embryonic and induced pluripotent stem cells upon passaging,Stem Cell Reviews and Reports,2010
- Seifinejad, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Generation of human .130 induced pluripotent stem cells from a Bombay individual: Moving towards universal-donor red blood cells,Biochemical and Biophysical Research Communications,2010
- Ghodsizadeh, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H.,Generation of .131 Liver Disease-Specific Induced Pluripotent Stem Cells Along with Efficient Differentiation to Functional Hepatocyte-Like Cells,Stem Cell Reviews and Reports,2010
- Totonchi, M., Taei, A., Seifinejad, A., (...), Hosseini ,& Salekdeh, G., Baharvand, H.,Feeder- .132 and serum-free establishment and expansion of human induced pluripotent stem cells,International Journal of Developmental Biology,2010
- Baharvand, H., Totonchi, M., Taei, A., (...), Aghdami, N., Salekdeh, G.H.,Human-induced .133 pluripotent stem cells: derivation, propagation, and freezing in serum- and feeder layer-free culture conditions,Methods in molecular biology (Clifton, N.J.),2010
- Mollamohammadi, S., Taei, A., Pakzad, M., (...), Masoudi, N., Baharvand, H.,A simple and .134 efficient cryopreservation method for feeder-free dissociated human induced pluripotent stem cells and human embryonic stem cells,Human Reproduction,2009
- Totonchi, M., Shahhoseini, M., Momeni Moghadam, M., Baharvand, H.,Epigenetic of stem .135 cells,Yakhteh,2007
- Ohadi, M., Totonchi, M., Maguire, P., (...), Keyhani, E., Najmabadi, H.,Mutation analysis of the .136 DBC2 gene in sporadic and familial breast cancer,Acta Oncologica,2007
- Salahshourifar, I., Gilani, M.A.S., Vosough, A., (...), Totonchi, M., Gourabi, H.,De novo .137 complex chromosomal rearrangement of 46, XY, t (3; 16; 8) (p26; q13; q21.2) in a non-obstructive azoospermic male,Journal of Applied Genetics,2007
- Ghavamzadeh, A., Alimoghaddam, K., Ghaffari, S.H., (...), Totonchi, M., Aghdami, .138 N.,Treatment of acute promyelocytic leukemia with arsenic trioxide without ATRA and/or chemotherapy,Annals of Oncology,2006