



مهدی توتونچی

دانشیار

محل خدمت: پژوهشگاه علوم سلولی (رویان)

سوابق تحصیلی

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

اطلاعات استخدامی

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

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 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, 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 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 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., Yazdani, T., Totonchi, M., Ahmadiani, A., Comprehensive somatic mutational analysis in glioblastoma: Implications for precision medicine approaches, *PLoS ONE*, 2024
- Karimpour, M., Totonchi, M., Behmanesh, M., Montazeri, H., Pathway-driven analysis of 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 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

- Exposure to Pathogenic Samples,Iranian Journal of Science and Technology - Transactions of .Electrical Engineering,2024
- Nouri ,& Keshtkar, M., Shojaei Shahrokhbabadi, M., Ghaheeri, 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
- Kolahdouzmohammadi, 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
- Sharbatoghli, 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
- Kolahdouzmohammadi, 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 ,& Mojarad, 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
- Sharbatoghli, 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
- Sharbatoghli, 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
- Abdolazadeh, H., Mohammadi, P., Ghasemi, M., (...), Aghdami, 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., (...), Motevaseli, 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 \square 30 causing mutation in KHDC3L: A genetic and
.clinical report, *Taiwanese Journal of Obstetrics and Gynecology*, 2022
- Kolahdouzmohammadi, 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 *ldlrp1* 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

Kolahdouzmohammadi, 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 .59 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 .60 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- .61 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 .62 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 .63 .treatment response in ovarian cancer: a ctDNA approach,Journal of Ovarian Research,2020

Khodaei, S., Asgari, Y., Totonchi, M., Karimi, & Jafari, M.H.,iMM1865: A New Reconstruction .64 .of Mouse Genome-Scale Metabolic Model,Scientific Reports,2020

Hosseini, V., Kalantary, & Charvadeh, A., Hasegawa, K., (...), Darabi, M., Totonchi, M.,A .65 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 .66 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 .67 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, .68 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 .69 .from Iranian related COVID-19 patients,Cell Journal,2020

Li, Y., Tahamtani, Y., Totonchi, M., (...), Gholampour, Y., Li, X.,Challenges of Iranian clinicians .70 .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 .71 missense mutation in NR5A1 causing female to male sex reversal: A case .report,Andrologia,2020

Eozenou, C., Gonen, N., Touzon, M.S., (...), Rajkovic, A., Bashamboo, A.,Testis formation in XX .72 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 .73 .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, .74 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 .75 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 .76 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., Rafeae, 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
.tumorigenicity,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.,Programing 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., Aboulkheyr, 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., Ahmadi, 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
- Barekati, 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 .130
- Seifinejad, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H., Generation of human induced pluripotent stem cells from a Bombay individual: Moving towards universal-donor red blood cells, *Biochemical and Biophysical Research Communications*, 2010 .131
- Ghodsizadeh, A., Taei, A., Totonchi, M., (...), Salekdeh, G.H., Baharvand, H., Generation of Liver Disease-Specific Induced Pluripotent Stem Cells Along with Efficient Differentiation to Functional Hepatocyte-Like Cells, *Stem Cell Reviews and Reports*, 2010 .132
- Totonchi, M., Taei, A., Seifinejad, A., (...), Hosseini, & Salekdeh, G., Baharvand, H., Feeder- and serum-free establishment and expansion of human induced pluripotent stem cells, *International Journal of Developmental Biology*, 2010 .133
- Baharvand, H., Totonchi, M., Taei, A., (...), Aghdami, N., Salekdeh, G.H., Human-induced pluripotent stem cells: derivation, propagation, and freezing in serum- and feeder layer-free culture conditions, *Methods in molecular biology (Clifton, N.J.)*, 2010 .134
- Mollamohammadi, S., Taei, A., Pakzad, M., (...), Masoudi, N., Baharvand, H., A simple and efficient cryopreservation method for feeder-free dissociated human induced pluripotent stem cells and human embryonic stem cells, *Human Reproduction*, 2009 .135
- Totonchi, M., Shahhoseini, M., Momeni Moghadam, M., Baharvand, H., Epigenetic of stem cells, *Yakhteh*, 2007 .136
- Ohadi, M., Totonchi, M., Maguire, P., (...), Keyhani, E., Najmabadi, H., Mutation analysis of the DBC2 gene in sporadic and familial breast cancer, *Acta Oncologica*, 2007 .137
- Salahshourifar, I., Gilani, M.A.S., Vosough, A., (...), Totonchi, M., Gourabi, H., De novo 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 .138
- Ghavamzadeh, A., Alimoghaddam, K., Ghaffari, S.H., (...), Totonchi, M., Aghdami, N., Treatment of acute promyelocytic leukemia with arsenic trioxide without ATRA and/or chemotherapy, *Annals of Oncology*, 2006 .139