

MAJID REZAEI-TAVIRANI

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Occupation

Associate Professor, Department of Surgery, Faculty of Medicine, Iran University of Medical Sciences, Tehran Iran

Researcher, Proteomics Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

Surgeon, Firoozabadi hospital, Iran University of Medical Sciences, Tehran, Iran

Postal Code: **1548934319**

Tel (Office): (+98 21)55934141

EDUCATION

2011 **General surgeon**, Hamedan University of Medical Sciences, IRAN

Thesis title: *Investigating the effect of laparoscopic orchiopexy on testicular descent in patients with non-palpable testicles referred to the surgery department of Ba'ath Hospital, Hamedan, and comparing it with open surgery.*

1999 **General Physician**, Isfahan University of Medical Sciences, IRAN

Thesis title: *Biophysical chemistry study of pigeon hemoglobin-several anionic and cationic detergents reciprocal effect*

RESEARCH INTERESTS

Clinical Proteomics, Sugary, Bioinformatics

EXPERIENCE

Teaching experience:

- Supervision and monitoring of graduate students during their thesis research
- Biophysics course for none-science majors
- Advanced Biophysics course for graduate students
- Cell culture course for graduate students
- Cellular and Molecular Biology for undergraduate students □ Bioinformatics for graduate students

Academic and administrative experience

- Research manager of Shahid Beheshti University of Medical Sciences (2011 - present)
- Head of Proteomics Research Center of Shahid Beheshti University of Medical Sciences (2011 - present)
- Head of Department of Basic Science of Faculty of Paramedical Sciences of Shahid Beheshti University of Medical Sciences (2009-present).
- Professor of Biophysics (2014- present)

PUBLICATIONS

Books in Persian language

- **Prevention of Skin Diseases**

Mostafa Rezaei-Tavirani, Fatemeh Torkashvand, and Majid Rezaei-Tavirani .(2008)

HONORS AND AWARDS

Shahid Beheshti University of Medical Sciences Outstanding Researcher Award (2011)
Top Faculty member of Shahid Beheshti University of Medical Sciences (2009)
Health Ministry of IRAN Outstanding Researcher Award (2004)
Health Ministry of IRAN Outstanding Researcher Award (2003)
Top National Ph.D. student (2001)

CONFERENCES ATTENDED (SELECTED)

ARTICLES

Introducing critical common dysregulated proteins in esophageal, gastric, and intestinal cancers

Arjmand, B., Razzaghi, M., Tavirani, M.R., ...Tavirani, M.R., Vafae, R.

Gastroenterology and Hepatology from Bed to Bench, 2022, 15(1), pp. 87–92

Histopathologic Changes of Appendicitis Stage During the COVID-19 Pandemic

Khaleghian, M., Tizmaghz, A., Rezaei-Tavirani, M., ...Tayebi, A., Olamaeian, F.

Medical Journal of the Islamic Republic of Iran, 2022, 36(1), 140

Effect of COVID-19 pandemic lockdowns on planned cancer surgery for 15 tumour types in 61 countries: an international, prospective, cohort study

Glasbey, J., Ademuyiwa, A., Adisa, A., ...Aldawbali, M., Sen, C.

The Lancet Oncology, 2021, 22(11), pp. 1507–1517

C-reactive protein as a possible marker for severity and mortality of COVID-19 infection

Tahery, N., Khodadost, M., Sherafat, S.J., ...Tavirani, M.R., Naderi, N.

Gastroenterology and Hepatology from Bed to Bench, 2021, 14, pp. S118–S122

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Early outcomes and complications following cardiac surgery in patients testing positive for coronavirus disease 2019: An international cohort study

Akowuah, E., Benson, R.A., Caruana, E.J., ...Gwini, G.P., Mazingi, D.

Journal of Thoracic and Cardiovascular Surgery, 2021, 162(2), pp. e355–e372

Obsessive-compulsive disorder interactome profile analysis: A perspective from molecular mechanism

Zamanian-Azodi, M., Rezaei-Tavirani, M., Tavirani, M.R.

Basic and Clinical Neuroscience, 2021, 12(2), pp. 187–198

Assessment of Post-Radiation Time Effect on Gene Expression Profiles of *Saccharomyces cerevisiae* Samples After Applying a UV Laser

Arjmand, B., Safari-Alighiarloo, N., Razzaghi, M., ...Nejad, M.R., Tavirani, M.R.

Journal of Lasers in Medical Sciences, 2021, 12(1), e91

Effect of UV Laser Radiation on “Positive Regulation of Telomere Maintenance” in *Saccharomyces cerevisiae*

Arjmand, B., Safari-Alighiarloo, N., Razzaghi, M., ...Mansouri, V., Vafae, R.

Journal of Lasers in Medical Sciences, 2021, 12(1), e87

Low-Level Laser Therapy Effects on Rat Blood Hemostasis Via Significant Alteration in Fibrinogen and Plasminogen Expression Level

Arjmand, B., Khodadost, M., Sherafat, S.J., ...Okhovatian, F., Tavirani, M.R.

Journal of Lasers in Medical Sciences, 2021, 12(1), e59

Machine learning risk prediction of mortality for patients undergoing surgery with perioperative SARS-CoV-2: The COVIDSurg mortality score

Bravo, L., Nepogodiev, D., Glasbey, J.C., ...Aldawbali, M., Gwini, G.P.

British Journal of Surgery, 2021, 19(4), znanb183

Bioinformatics identification of green tea anticancer properties: A network-based approach

Zamanian-Azodi, M., Rezaei-Tavirani, M., Esmaeili, S., Tavirani, M.R.

Research Journal of Pharmacognosy, 2021, 8(2), pp. 17–25

Bioinformatics investigation and contribution of other chromosomes besides chromosome 21 in the risk of down syndrome development

Azodi, M.Z., Tavirani, M.R., Tavirani, M.R., Nejad, M.R.

Basic and Clinical Neuroscience, 2021, 12(1), pp. 79–88

Evaluation of laser effects on the human body after laser therapy

Khalkhal, E., Razzaghi, M., Rostami-Nejad, M., ...Heidari Beigvand, H., Rezaei Tavirani, M.

Journal of Lasers in Medical Sciences, 2020, 11(1), pp. 91–97

Evaluation of preoperative liver function test efficacy in patients with symptomatic cholelithiasis

Tavirani, M.R., Abbasi, M.A., Bagaee, M., Tizmaghz, A., Khavanin-Zadeh, M.

Gastroenterology and Hepatology from Bed to Bench, 2020, 13(3), pp. 254–257

Neuroprotective properties of photobiomodulation in retinal regeneration in rats: Perspectives from interaction levels

Mansouri, V., Razzaghi, M., Rostami-Nejad, M., ...Zali, A., Hamdieh, M.

Journal of Lasers in Medical Sciences, 2020, 11(3), pp. 280–286

Evaluation of CXCR1 as a possible diagnostic biomarker in acute appendicitis

Khalkhal, E., Razzaghi, Z., Baghban, A.A., ...Rezaei-Tavirani, M., Rezaei-Tavirani, M.

Gastroenterology and Hepatology from Bed to Bench, 2020, 13, pp. S106–S112

Highlighted role of “IL17 signaling pathway” in gastroesophageal reflux disease

Azodi, M.Z., Razzaghi, M., Malekpour, H., ...Heidari, M.H., Rezaei-Tavirani, M.

Gastroenterology and Hepatology from Bed to Bench, 2020, 13, pp. S68–S74

Investigating the effects of ibuprofen on the gene expression profile in hippocampus of mice model of alzheimer's disease through bioinformatics analysis

Zamanian-Azodi, M., Rezaei-Tavirani, M., Rezaei-Tavirani, M.

Iranian Journal of Pharmaceutical Research, 2020, 19(2), pp. 352–359

A review on the management of trauma after injury in pediatrics emergency care

Tavirani, M.R., Rezaei-Tavirani, M., Gharab, S.G., Beigvand, H.H.

Journal of Critical Reviews, 2020, 7(7), pp. 1120–1128

Assessment of dysregulation of HERC6 and essential biological processes in response to laser therapy of human arm skin

Safari, S., Rostami-Nejad, M., Rezaei-Tavirani, M., ...Razzaghi, Z., Rezaei-Tavirani, M.

Assessment of laser effects on skin rejuvenation

Beigvand, H.H., Razzaghi, M., Rostami-Nejad, M., ...Mansouri, V., Heidari, M.H.

Journal of Lasers in Medical Sciences, 2020, 11(2), pp. 212–219, 35

A review of various methods of management of risk in the field of emergency medicine

Tavirani, M.R., Beigvand, H.H.

Open Access Macedonian Journal of Medical Sciences, 2019, 7(23), pp. 4179–4187

Gestational diabetes mellitus regulatory network identifies hsa-mir-145-5p and hsa-mir-875-5p as potential biomarkers

Azodi, M.Z., Rezaei-Tavirani, M., Rezaei-Tavirani, M., Robati, R.M.

International Journal of Endocrinology and Metabolism, 2019, 17(3), e86640

Interaction network prediction and analysis of anorexia nervosa

Rezaei Tavirani, M., Rezaei Tavirani, M., Vafae, R.

Iranian Journal of Child Neurology, 2019, 13(3), pp. 45–54

Protein interaction mapping related to to becker muscular dystrophy

Peyvandi, A.A., Okhovatian, F., Rezaei Tavirani, M., Zamanian Azodi, M., Rezaei Tavirani, M.

Iranian Journal of Child Neurology, 2019, 13(2), pp. 125–134

Investigating therapeutic effects of retinoic acid on thyroid cancer via protein-protein interaction network analysis

Rezaei-Tavirani, M., Rezaei-Tavirani, M., Azodi, M.Z.

International Journal of Cancer Management, 2019, 12(10), pp. 1–8, e92465

The evaluation of laser application in surgery: A review article

Khalkhal, E., Rezaei-Tavirani, M., Zali, M.R., Akbari, Z.

Journal of Lasers in Medical Sciences, 2019, 10(4), pp. S104–S111

ANXA2, PRKCE, and OXT are critical differentially genes in Nonalcoholic fatty liver disease

Tavirani, M.R., Tavirani, M.R., Azodi, M.Z.

Gastroenterology and Hepatology from Bed to Bench, 2019, 12(2), pp. 131–137

Evaluation of skin response after erbium: Yttrium-aluminum-garnet laser irradiation: A network analysis approach

Rezaei-Tavirani, M., Tavirani, M.R., Azodi, M.Z., Farshi, H.M., Razzaghi, M.

Journal of Lasers in Medical Sciences, 2019, 10(3), pp. 194–199

The bioinformatics aspects of gene screening of HT-29, human colon cell line treated with caffeic acid

Rezaei-Tavirani, M., Tavirani, M.R., Azodi, M.Z.

Gastroenterology and Hepatology from Bed to Bench, 2019, 12(3), pp. 246–253

Protein-protein interaction analysis of common top genes in obsessive-compulsive disorder (OCD) and schizophrenia: Towards new drug approach obsessive-compulsive disorder (OCD) and schizophrenia comorbidity gene analysis

Mahboubi, M., Azodi, M.Z., Tavirani, M.R., ...Tavirani, M.R., Gargari, B.N.

Iranian Journal of Pharmaceutical Research, 2018, 17(Special Issue 2), pp. 173–186

Serum proteomic study of women with obsessive-compulsive disorder, washing subtype

Zamanian-Azodi, M., Rezaei-Tavirani, M., Mahboubi, M., ...Nejadi, N., Derakhshan, M.K.

Basic and Clinical Neuroscience, 2018, 9(5), pp. 337–346

Research Paper: Introducing Transthyretin as a differentially expressed protein in washing subtype of Obsessive- Compulsive Disorder

Azodi, M.Z., Tavirani, M.R., Oskouie, A.A., ...Tavirani, M.R., Tabatabaei, S.A.M.

Basic and Clinical Neuroscience, 2018, 9(3), pp. 187–194

Nasopharyngeal carcinoma protein interaction mapping analysis via proteomic approaches

Azodi, M.Z., Tavirani, M.R., Tavirani, M.R., Vafae, R., Rostami-Nejad, M.

Asian Pacific Journal of Cancer Prevention, 2018, 19(3), pp. 845–851

Barrett’s esophagus network analysis revealed that arginine, alanine, aspartate, glutamate, valine, leucine and isoleucine can be biomarkers

Zali, M.R., Zadeh-Esmaeel, M.-M., Tavirani, M.R., ...Norouzinia, M., Rezaei-Tavirani, M.

Gastroenterology and Hepatology from Bed to Bench, 2018, 11, pp. S111–S117

Metabolic analysis of acute appendicitis by using system biology approach

Zojaji, H., Tavirani, M.R., Mansouri, V., ...Robati, R.M., Lak, E.

Gastroenterology and Hepatology from Bed to Bench, 2018, 11, pp. S92–S97

Human prolactinoma: A view of protein-protein interaction pattern

Azodi, M.Z., Rezaei-Tavirani, M., Rostami Nejad, M., Rezaei-Tavirani, M.

International Journal of Endocrinology and Metabolism, 2018, 16(4), e67332

Celiac disease microarray analysis based on System Biology Approach

Tavirani, M.R., Bashash, D., Rostami, F.T., ...Tavirani, M.R., Haidary, M.H.

Gastroenterology and Hepatology from Bed to Bench, 2018, 11(3), pp. 216–224

Interpretation of tongue squamous cell carcinoma via protein-protein interaction network construction and analysis

Zamanian Azodi, M., Rezaei-Tavirani, M., Rezaei-Tavirani, M., Mansouri, V., Vafae, R.

International Journal of Cancer Management, 2018, 11(1), e62004

Protein-protein interaction network analysis for a biomarker panel related to human esophageal adenocarcinoma

Rezaei-Tavirani, M., Rezaei-Tavirani, S., Mansouri, V., Rostami-Nejad, M., Rezaei-Tavirani, M.
Asian Pacific Journal of Cancer Prevention, 2017, 18(12), pp. 3357–3363

Fluoxetine regulates ig kappa chain c region expression levels in the serum of obsessive-compulsive disorder patients: A proteomic approach

Azodi, M.Z., Tavirani, M.R., Oskouie, A.A., ...Rostami-Nejad, M., Vafae, R.

Iranian Journal of Pharmaceutical Research, 2017, 16(3), pp. 1268–1275, 43

Common and differential genetically pathways between ulcerative colitis and colon adenocarcinoma

Akbari, S., Hosseini, M., Rezaei-Tavirani, M., ...Vaseghi-Maghvan, P., Jahani-Sherafat, S.

Gastroenterology and Hepatology from Bed to Bench, 2017, 10, pp. S93–S101

Duchenne muscular dystrophy (DMD) protein-protein interaction mapping

Rezaei Tavirani, M., Okhovatian, F., Zamanian Azodi, M., Rezaei Tavirani, M.

Iranian Journal of Child Neurology, 2017, 11(4), pp. 7–14

Serum proteomic profiling of obsessive-compulsive disorder, washing subtype: A preliminary study

Zamanian-Azodi, M., Rezaei-Tavirani, M., Nejadi, N., ...Amouzandeh-Nobaveh, A., Okhovatian, F.

Basic and Clinical Neuroscience, 2017, 8(4), pp. 307–316

Oral squamous cell cancer protein-protein interaction network interpretation in comparison to esophageal adenocarcinoma

Khayer, N., Zamanian-azodi, M., Mansouri, V., ...Heidari, M.H., Tavirani, M.R.

Gastroenterology and Hepatology from Bed to Bench, 2017, 10(2), pp. 118–124

Introducing crucial protein panel of gastric adenocarcinoma disease

Rezaei-Tavirani, M., Rezaei-Tavirani, M., Mansouri, V., ...Rostami-Nejad, M., Zali, M.R.

Gastroenterology and Hepatology from Bed to Bench, 2017, 10(1), pp. 21–28

Ethanol and cancer induce similar changes on protein expression pattern of human fibroblast cell

Zamanian-Azodi, M., Rezaei-Tavirani, M., Rahmati-Rad, S., Tavirani, M.R.

Iranian Journal of Pharmaceutical Research, 2016, 15, pp. 175–184

Protein-protein interaction network analysis of human fibroblast cells treated with ethanol

Zamanian-Azodi, M., Rezaei-Tavirani, M., Peyvandi, M., ...Okhovatian, F., Safakhah, H.A.

Koomesh, 2016, 18(1), pp. 35–41

Pathophysiology, genetics, types, and treatments in obsessive compulsive disorder

Zamanian-Azodi, M., Rezaei-Tavirani, M., Kermani-Ranjbar, T., ...Rahmatirad, S., Asl, N.S.

Koomesh, 2015, 16(4), pp. 475–487

Protein-protein interaction network could reveal the relationship between the breast and colon cancer

Zamanian-Azodi, M., Rezaei-Tavirani, M., Rahmati-Rad, S., ...Tavirani, M.R., Seyyedi, S.S.

Gastroenterology and Hepatology from Bed to Bench, 2015, 8(3), pp. 215–224

Ethanol-induced chromosomal abnormalities in human fibroblast cells

Aminigram, P., Tavirani, M.R., Zamanian-Azodi, M., ...Nasr, R., Reza Akbari Eidgahi, M.

Koomesh, 2014, 16(2), pp. 254–259

Epidemiology and etiology of Alzheimer's disease

Hakimeh, Z., Sadat, S.S., Pour, A.R., Tavirani, M.R.

Koomesh, 2014, 16(2), pp. 119–127

Functionalization of MWNT-COOH by one-step reaction with (3-oxoindolin-2-ylidene) urea and in vitro antitumor study on gastric cancer

Heidari-Keshel, S., Entezari, M., Rezaei-Tavirani, M., Ebrahimi, M., Rezaei-Tavirani, M.

Gastroenterology and Hepatology from Bed to Bench, 2013, 6(SUPPL.)

Gastric cardia adenocarcinoma pathway analysis

Zali, H., Rezaei-Tavirani, M., Vafae, R., Rezaei-Tavirani, M.

Gastroenterology and Hepatology from Bed to Bench, 2013, 6(SUPPL.)

Effect of essential oil of rosa damascena on human colon cancer cell line SW742

Rezaie-Tavirani, M., Fayazfar, S., Heydari-Keshel, S., ...Rezaei-Tavirani, M., Khodarahmi, R.
Gastroenterology and Hepatology from Bed to Bench, 2013, 6(1), pp. 25–31

WORKS IN PROGRESS

1- Immunological assessment of bio-compatible collagen based wound dressing
for repair of skin lesions: A clinical trial project.

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

a) Member of Iranian Medical Proteomics Society.

Google Scholar profile

[https://scholar.google.com/citations?hl=en&user=PLsdGgIAAAAJ&view_o
p=list_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=PLsdGgIAAAAJ&view_op=list_works&sortby=pubdate)