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Educational Background

1-Observership program in molecular pathology and hematopathology-USA-Harvard University-MGH-2017 AND 2018

2-Fellowship in Molecular Pathology and Cytogenetic-Shiraz University Of Medical Sciences-Iran-2010.

3- Specialist in Anatomical & Clinical Pathology-Mashhad University of Medical Sciences-Mashhad-Iran-2004

4- MD-Mashhad university of Medical Sciences-IRAN-1994

Research Interests

Cancer molecular pathologyand cytogenetic in solid tumor and leukemia and lymphoma

1. Rahmati, A., Goudarzi, S., Sheikhi, M, Ferns, G.A., **Ayatollahi, H** .The Emerging Roles of Aldehyde Dehydrogenase in Acute Myeloid Leukemia and Its Therapeutic Potential.Anticancer Agents Med Chem,2022, 23(3), pp. 246-255Online ahead of print.
2. Zafari, Z., **Ayatollahi, H.**, Sohrabi, T., Esmaeili, H., Keramati, M.R.BMI-1 Gene Expression in Patients with Acute and Chronic Myeloid Leukemia in the Northeast of Iran. Middle East J Cancer. 2023;14(1):41- 8.
3. Arbab Jafari P, **Ayatollahi H**, Sadeghi R, Sheikhi M, Asghari A .Prognostic significance of SRSF2 mutations in myelodysplastic syndromes and chronic myelomonocytic leukemia: a meta-analysis..Hematology. 2018 Dec;23(10):778-784
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12. Chehrehghani Z, Sadeghian MH, **Ayatollahi H**, Bagheri P, Zafari Z, Rezazadeh O, Arbab Jafari P.Detection of TET2 Mutation in Patients with De Novo Acute Myeloid Leukemia: A Mutation Analysis of 51 Iranian Patients.Asian Pac J Cancer Prev. 2022 Mar 1;23(3):803-806.
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Presentations

1. **Hossein Ayatollahi**, EsmaeilRostami, Mohammad Hadi Sadeghian, Mohammad Reza Keramati, ElaheZeinali. **Expression Level of the PPP2R5C Gene in Patients With Acute Myeloid Leukemia and Chronic Myeloid Leukemia.** J Biomed 2016; 1(1): e5334.
2. Samadi, A, Lari, SM, Attaran, D, Shadkam, O , Asadi, A, Ghayour-Mobarhan, M, **Ayatollahi, H**, Khajehdaloei, **metabolic syndrome a significant comorbidity in mustard lung patients?** EUROPEAN RESPIRATORY JOURNAL Volume: 42 Supplement: 57 Meeting Abstract: 421 Published: SEP 1 2013.
3. **Ayatollahi, H**,Homaee, F, Ghazvini, K, Sadeghian, MH, Akbarin, MM, Hasanzadeh, M, Bagheri, M. **MOLECULAR DETECTION OF EPSTEIN-BARR VIRUS IN CERVICAL SQUAMOUS CELL CARCINOMA IN NORTHEAST OF IRAN.** IUBMB Life. 2009; 61(3): 351-351.
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5. Ayatollahi H , Rafatpanah H, Khayyami ME, Sayyadpoor D, Ravarian M, Sadeghian MH, Izadi N, Khoob MK. Association between ABO and Rhesus blood group systems among confirmed Human T Lymphotropic Virus-1-infected patients in northeast Iran. Virchows Arch 2008; 452: S62-S63.
6. Sharifi, N, Ayatollahi H , Ghaffarzadegan, K , Ghiasi, MT, Farahmand, MJ, Jafarian, AH. Quickscore assessment in Bcl-2 and Bax protein expression in invasive ductal carcinoma of breast and relation with other molecular Markers. Virchows Arch 2008; 452: S131-S132
7. Haghighi S, Hasanzadeh M, Vahidroodsari F, Ayati S, Sima H, Ayatollahi H , Shakeri MT, Helicobacter pylori infection in hyperemesis gravidarum and normal pregnant women: a comparative study.
8. Diagnostic value of agnoring in neoplastic and non neoplastic lesion of thyroid. The 9 th Annual Congress of Iranian Pathology Tehran – Iran- Jun 2005
9. Diagnostic value of agnoring in serous and mucinous epithelial tumors of ovary. The 9 th Annual Congress of Iranian Pathology Tehran – Iran- Jun 2005.
10. Telecytology Interobserver and Interobserver reproducibility in the diagnosis of pleural effusion smear. The 7th Annual Congress of Iranian Pathology Tehran-Iran. Jan 2006
11. Telecytology in Diagnostic Pleural Cytology A Feasibility Study between Mashhad University of Medical Sciences, Iran, and the University of Miami, USA The 8th Annual Congress of Iranian Pathology & the 2nd Congress of Iranian Cancer Association Tehran-Iran- Nov.6.2006. <u>Speaker</u>
12. Interobserver and intraobserver reproducibility of diagnostic in pleural effusion smear. The 8th Annual Congress of Iranian Pathology & the 2nd Congress of Iranian Cancer Association .Tehran-Iran. Nov.6.2006
13. Whether the use of routine laboratory tests for plasma Heparinase Clinical Bio-chemistry is right? Congress on clinical and laboratory .Tehran-Iran. Jan.13.2007 – <u>Poster</u>
14. Study of therapeutic effect of silymarin in acute Hepatotoxicity of ccl4 in Rats. Iranian Journal of Biochemistry and Molecular Biology Tehran-Iran .
15. Evaluation of angiogenesis in acute leukemia and comparing with normal bone marrow tissue. The 9th Annual Congress of Iranian Pathology & the 3rd Congress of Iranian Cancer Association .Tehran-Iran 2007
16. Preventive effect of N-buthanol fraction of Nigella sativa on renal stone in the rat 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran 2007- <u>Poster</u>
17. Subject: Preventive effect of total extract and ethyl-acetate fraction of Nigella sativa on renal stone in the rat 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran. 2007- <u>Poster</u>
18. The effect of aqueous-ethanolic extracts of cynodon dactylon on calcium oxalate kidney stones in rat 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran. 2007- <u>Poster</u>
19. Antibacterial effect of essential oil of lavandula angustifolia on enteric and urinary infection agents. 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran. 2007- <u>Poster</u>
20. Antibacterial effects and photochemical analysis of extracts of Trichodesma Incanum. 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran. 2007- <u>Poster</u>
21. Protective effect of hydro-alcoholic extract of Mangifera indica and Vimang against gentamicin-induced nephrotoxicity 18th Iranian congress of Physiology & Pharmacology Mashhad-Iran. 2007- <u>Poster</u>
22. The 9th Iranian congress of Biochemistry & the 2nd international congress of Biochemistry and molecular biology Iran- Shiraz. 2007- <u>Poster</u>

23. Ratio of free to total prostate specific antigen and total prostate specific antigen level to protein concentration in saliva and the comparison with serum levels in healthy men & Subject: Serum level of high sensitive C-reactive protein in normal and preeclamptic pregnancies The 9th Annual Congress of Iranian Pathology & the 3rd Congress of Iranian Cancer Association. Iran-Tehran 2007 - <u>Speaker</u>
24. Quick score assessment in Bcl- 2 and Bax protein expression in invasive ductal carcinoma of breast and relation with other molecular Markers. The 9th Annual Congress of Iranian Pathology & the 3rd Congress of Iranian Cancer Association. Iran-Tehran 2007 - <u>Poster</u>
25. Serum level of vascular cell adhesion molecule-1 (sVCAM-1) in sera of normal and preeclamptic pregnancies The 9th Annual Congress of Iranian Pathology & the 3rd Congress of Iranian Cancer Association) Iran-Tehran. 2007. <u>Poster</u> .
26. Association between ABO and Rhesus Blood Group Systems among Confirmed Human T Lymph tropic Virus Type 1-Infected Patients in Northeast Iran. 3rd international congress of pathology. Barcelona. May 17-22, 2008. <u>Poster</u>
27. Chlamydia Trachomatis, Herpes simplex virus type- 2, cytomegalovirus and human Papilloima viruses' with SCC of cervix in Northeast of Iran. BIT 1th Annual congress and expo of Molecular diagnostics. Beijing-China. Oct. 24-28. 2008. <u>Speaker</u>
29. Evaluation of instrumental analytical precision by frozen control material and quality assurance in biochemistry laboratory.?
30. Comparison of instrumental precision in Technicon RA-1000 And Liasys autoanalysers in order to improve quality assurance in biochemistry laboratory. 7th Iranian congress of Physiology. <u>Poster</u>
31. Comparison of Multiplex PCR, Acid fast and Auramine-Rhodamine staining for detection of Mycobacterium tuberculosis and nontuberculosis Mycobacterium tuberculosis and nontuberculosis Mycobacterium in Paraffin-Embedded pleural and bronchial tissues with granulomatous inflammation and caseous necrosis. The 10th Annual Congress of Iranian Pathology- Iran-Tehran
32. Hydatidiform mole with the relationship between P57 positive Marker immunohistochemistry. The 10th Annual Congress of Iranian Pathology- Iran-Tehran
Honors & Awards
1- Second rank in national Iranian Board exam in Pathology, 2004
2- The Best researcher of Mashhad University of Medical Sciences-2009.
3- The Best young researcher of Iranian ministry of health and medical education-2009.
4- The best poster in annual congress of pathology, Tehran-IRAN ,2004(Poster subject: Diagnostic value of AGNOR stain neoplastic and non neoplastic lesion of thyroid)
5- The best poster in annual congress of pathology-Tehran-IRAN-2004.(poster subject: Diagnostic value of AGNOR stain Epithelial tumors of Ovary.)
6- Letter of commendation from professor of the department of pathology ,Ohio State University, Keyhani-Rofagha telecytology collaboration.(2006)
7- Letter of commendation from professor of the department of pathology ,Miami University, Nadji M for telecytology collaboration.(2006)
8- Letter of commendation from dean of faculty of medicine-MUMS for establishment of new quality control methods and urine electrophoresis in MUMS.(2005)
9- Letter of commendation from vice chancellor for research(MUMS) for collaboration in clinical research committee as (2007).
10- Letter of commendation from chancellor of MUMS for collaboration in Mashhad University publication committee(2007)
Books
1- Protein Blotting Methods-2007(Author). Published by MUMS Publication.
2- Tumor Markers-2008(Author). Published by MUMS publication.
3- Lymphoma and Lymphatic Tissue Lesions-2011(Translator) Published by MUMS publication.
4- Clinical cancer Genetic Guideline-2014 (Author). Published by CMP (Cancer Molecular pathology).

5- Diagnostic Techniques in Hematological Malignancies-2014 (Translator) Published by MUMS publication.
6- Molecular Pathology and Cytogenetic in Hematologic Malignancy-2016(Author)
8-Cancer Molecular Pathology-2017(Author)
9-Cytogenetic Application in Modern Pathology-2017(Author)
Membership
Iranian association of Pathology
Administrative Responsibilities
1- Head of Cancer Molecular Pathology Research Center (2010-present)
2- Supervisor of pathology residents at Department of Biochemistry-Ghaem Hospital-MUMS(2004-2008)
Other Skills