

## CURRICULUM VITAE



### ❖ General information :

Name: zohreh sanaat, MD

MALING ADDRESS: Daneshgah St, imam Reza Hospital, Shahid ghazi hemato-oncology department, Tabriz, Iran.

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Date of Birth: 23/03/1963

Place of Birth: Isfahan

Citizenship: Iranian

❖ **Languages:**farsi-English

❖ **Education:** **University** of Medical Science, Isfahan, Doctor of Medicine, 1989.

Basic science NOV 22, 1987 to Sep 22, 1989.

Medical student, Sep 23, 1989 to Sep 22, 1993.

Internship, Sep 23, 1993 to Sep 22, 1994.

Resident, Internal Medicine, University of Medical Science, Isfahan,Nov 23 1996 to Sep 22 , 1999.

Resident, Hemato-Oncology, Tabriz-Tehran University of Medical Science, sep 23, 2001 to sep 22, 2003.

❖ **Professional Employment History:**

General practitioner, Boin –Miandast, Isfahan Nov 23, 1994 to Sep 22, 1996.

Internist, Tyran City Hospital, Isfahan, Jan 2, 2000 to Agu 23, 2001.

Hemato-Oncologist, Isfahan University of Medical science May, 3, 2004 to Jul 23, 2005.

Hemato-Oncologist, Tabriz University of Medical science, Jul, 23, 2005.

**Honors and Awards:** 1-Salutatorian Board of hemato-oncology examination Iran Aug 22, 2003

❖ **Sabbatical Course in Stem cell transplantation and Molecular oncology:**

- 1- Blood and Marrow Transplantation Ward. Kansas University Medical Center ,Kansas City,Kansas,U.S.A.(2011-2012),12 months.
- 2- University of Kansas Cancer Center. Kansas University Medical Center, Kansas City,Kansas,U.S.A.(2011-2012),12 months.

❖ **Board Certification:**

Certification of Internal Medicine, Sep 22, 1999.

Certification of Hemato-oncology Sep 22, 2003

**COMMITTEES:**

Member of Iranian Society of hemato-oncology.

Member of European Society of Medical Oncology (ESMO).

Member of European Hematology Association (EHA).

American Society of Clinical Oncology (ASCO).

American Society of Hematology (ASH).

**Research Projects:**

- 1-Evaluation of arsenic trioxide effect in bone marrow angiogenesis of patients with refractory acute myeloid leukemia.
- 2-Evaluation of plasma level copper, zinc, cu/Zn, VEGF in patient with AML before and after treatment.
- 3- Evaluation of response to Arsenic Trioxide in patients with refractory Multiple Myeloma.
- 4-COX\_2 expression in patients with lymphoma.
- 5-Evaluation of torin effecting patient with lung cancer.
- 6-A study of tissue associated eosinophilia and blood eosinophils count with lymph nodes involvement, tumor size and grade of oral squamous cell carcinoma.
- 7- Effects chemotherapeutic drugs on antioxidant status in patients with acute myelogenous leukemia.
- 8-Study of the effectiveness of the low dose Ara-c (low DAC) as maintenance therapy in AML.
- 9-The effect of education on knowledge of cancer patients about cancer in Tabriz hematology &oncology center 1387-1388.
- 10-Nutritional assessment in patients with acute leukemias and their associations to the complications of chemotherapy.
- 11- Study of the protective effects of torin against methotrexate-induced toxicity in the patients suffering from osteosarcoma .

- 12- Efficacy of training progressive muscle relaxation training on Anxiety ,Depression and Quality of life in Cancer patients under Chemotherapy in Tabriz Hematology & Oncology Research Center-1388.
- 13- Evaluation of CD44, Ki-67, P53, HER-3\neu in Gastric cancer.
- 14- Angiogenesis of bone marrow and vascular endothelial growth factor level blood & bone marrow before and after treatment in acute myeloid leukemia.
- 15-Evaluation of 25 Hydroxy vitamin- D Serum Level with prognostic factor in breast cancer.
- 16-prevalence of helicobacter pylori infection and relation with gastro-intestinal bleeding in patients with hereditary bleeding disorders.
- 17- ki-67 status in patients with primary breast cancer and it's relation with other prognostic factors in Tabriz Shahid Ghazi Oncology Center in 1389-90.
- 18- Investigation of KRAS mutations Gene in Cancer Colon in North west of Iran.
- 19- Application of equity theory in family of patients with cancer who reffered to Shahid Gazi Tabataba hospital.
- 20- Evaluation of expression profile of  $\beta$ -catenin and survivin in acute myeloid leukemia (AML) patients.
- 21- The effect of education on knowledge of cancer patients about cancer in Tabriz Hematology & Oncology center 1387-88.
- 22- Efficacy of training progressive muscle relaxation training on Anxiety ,Depression and Quality of life in Cancer patients under Chemotherapy in Tabriz Hematology & Oncology Research Center-1388.
- 23- Cancer patients satisfaction with cares provided in Shahid Gazi Tabataba educational center.
- 24- Application of equity theory in family of patients with cancer who reffered to Shahid Gazi Tabataba hospital.
- 25- Hepatitis B virus reactivation in Hematologic Malignancy patients undergoing cytotoxic chemotherapy
- 26- Evaluation of expression profile of  $\beta$ -catenin and survivin in Acute myeloid leukemia(AML) patients
- 27- Measurement of plasma and whole blood concentration of Taurine in Thalassemic patients and their relation with concentration of iron and liver enzymes.
- 28- Evaluation of Diagnostic value of Different Imaging Techniques in Staging of Osteo-Arterial disorders in Patients with Hemophilia.
- 29- Prevalance of NPM1 and FLT3-(ITD)mutations and flowcytometry findings in AML patients.
- 30- Dietary Intake Of Folate, Vitamin B6 and Vitamin B12 and Risk Of Breast Cancer: a Case-Control Study.

- 31- The effect of multimethod education on self efficacy in patients with breast cancer and their family care givers:A randomised controlled trial.
- 32-Evaluation of IL-12p40 and Interferon- $\gamma$  gene expression level and the promoter region of related genes in Acute lymphoblastic Leukemia patients referred to oncology departments of Tabriz Imam Reza And Child Hospitals.
- 33-The association of, protein type and prebiotic food intakes with serum level of hormonal factors in patients with breast cancer: Analysis of polymorphism variants of IGF-1 and IGFBP-3 genes interference effect.
- 34- Evaluation of common polymorphism Prevalances in the promotor region of the Bax and Bcl 2 genes in patients with Acute Lymphoblastic Leukemia.
- 35- Comparson the effects of pure curcumin-chrysin and curcumin-chrysin loaded in PLGA-PEGnanoparticles on cyclin D1 gene expression in T-47D breast cancer cell line.
- 36- Evaluation of P63 expression in sputum specimen of the patient with non small cell carcinoma.
- 37- Affect of Achillea millefolium in Prophylaxis of oral mucositis induced by chemotherapy in AML patients.
- 38- Gene expression difference of caspase 3, caspase 8 and caspase 9 in normal and cancerous tissues of patients with colorectal cancer.
- 39- Medical Sciences staff awareness of cancer warning signs and implementat protective actions against it.
- 40- Evaluation of common polymorphism Prevalances in the promotor region of the Bax and Bcl 2 genes in patients with Acute Lymphoblastic Leukemia.
- 41- Evaluation of P63 expression in sputum specimen of the patient with non-small cell carcinoma.
- 42- Effect of Achillea millefolium in Prophylaxis of oral mucositis induced by chemotherapy in AML patients.
- 43-Evaluation of complete remission (CR) and medical complications with high-dose daunorubicin induction therapy in AML patients treated hospital Ghazi.
- 44-Relation of coexpression of CD117 and CD 135 and survival in patients with acute myeloid leukemia.
- 45-Relation of EZH2 and survival in patients with Colorectal carcinoma.
- 46- Relation of EZH2 and survival in patients with Breast cancer .
- 47- Relation of HER2 positive breast cancer median survival with CD44 marker expression.
- 48- Evaluating the Level of Oxidatively Modified Low-Density Lipoproteins (oxLDLs) in Patients with Hematological Malignancies and its Comparison with Control Group.
- 49- Mammographic screening to improve breast cancer stage in East Azerbaijan, Iran: a feasibility study.

- 50- The effect of ginseng on cancer related pain, and Quality of sleep in cancer survivors: a clinical trial study.
- 51- Investigation of the effect of Vitamin D on EZH2 and STAT protein expression in MCF7 breast cancer cell line.
- 52- Prophylactic effects of global decontamination with chlorhexidine and mupirocin in neutropenic fever and infection in patients with acute leukemias.
- 53- Isolation and identification of non- tuberculosis mycobacteria from sputum specimens based on the evaluation of hsp65 gene in Shahid Ghazi and Imam Reza Hospital, Tabriz Iran during 2018.
- 54- Insulin resistance and cachexia development in patients with metastatic solid tumors.
- 55- The effectiveness of Group Acceptance and Commitment Therapy (ACT) on pain related anxiety and Cognitive Emotion Regulation in breast cancer patients.

### **PUBLICATIONS:**

- 1-Ashraf Aminorroaya , M.D. , Zohreh Sanaat M.D., et al Effects of iodized salt consumption on goiter prevalence in Isfahan : the possible role of goiterogens , Endocrine Practice , 2001 Mar – Apr ; 7(2) : 95-8 .
- 2- Sanaat ,z . M.D., Eavazi J .M.D., A case of non – hemophilic idiopathic factor VIII antibody , Medical Journal of Tabriz University of Medical Science , Apr . 2002 , N53: 65-8 .
- 3- Aminorroaya A., Amini M , Mosavi A., Sanaat ,z., Increased heights & weights of Isfahani female children in Iran ., Journal of Tropical Pediatrics , Dec. 2002 , 48 (6) : 377-9 .
- 4-Evaluation of angiogenesis in the bone marrow of patient with AML.Sanaat Z,Tavangar M,Sharitabrizi A,Ali,oghaddam K,et al,Medical Journal of Tehran University of Medical Science,2004,vol62,N 4.
- 5- Alimoghaddam K,Shariftabrizi A, Tavangar M, Sanaat Z,et al;Anti-Leukemic and anti-angiogenesis efficacy of arsenic trioxide in new cases of APL.Leuk Lymphoma 2006 jan ;47(1)81-88.
- 6-Alimoghaddam K, Ghaffari H, Foroughi F, Chardouli B, Sanaat Z,et al; Effects of chimerism on graft-versus-host disease, disease recurrence, and survival after HLA-identical marrow transplantation in Iran.Arch Iran Med. 2006 Apr;9(2):99-103.
- 7-Eivazi-Ziae J,Dastgirg S,Sanaat Z;Estimation of the diagnostic value of myeloperoxidase and lactate dehydrogenase in megaloblastic anemic.jurnal of clinical and diagnostic research .2007 oct;1(5):380-384.
- 8-kermani I,Dolatkhah R,Dibavar M,Kazemi AH,Eivazai Ziae J,Sanaat z,etl;Ophthalmologic and audiologic problems in beta thalassemia patients treated with prolonged chelation therapy.jurnal of Clinical and Diagnostic Research.2008 Feb;(2)622-626.

- 9-Sanaat Z,Pezeskian M,Esmaili H;Malignant Peripheral Nerve Sheath Tumor of the heart. Medical Journal of Tabriz University of Medical Science.2008 Nov;30(3):143-144 .
- 10-Sanaat Z,Mohammady G,Esmaili H,Emrani M,Doltkhah R;Osteosarcoma of the Larynx.Arch Iranian Med.2009 :12(5);503-506.
- 11- Doltkhah R,Kermani i.a,Sanaat Z,Seifi S,et al;clinical use of Haemate-P in inherited Von Willebrands disease:a patient with type 3 VWD and recurrent menometrorrhagi.Hemophilia.2010:1-2.
- 12- Sanaat Z ,Mahtab Rezazadeh M, Vaez Gharamaleki J, Eivazi Ziae J , Esfahani A, Ghojzadeh M; Evaluation of response to arsenic trioxide in patients with refractory multiple myeloma. Tehran University Medical Journal; Vol. 67, No. 12, Mar 2010: 843-848.
- 13- Sanaat Z , Amizadeh Y, Movasagpour Akbari A, Dolatkah R. The Relationship between Immunological Markers, Disease Free Survival and Overall Survival in Acute Myeloid Leukemia in North-West of Iran.IJHOSCR ,2010 ;4(4): 25-28.
- 14- Esfahani A , Ghoreishi Z, Alireza Nikanfar , Sanaat Z , Ghorbanihaghjo A, Rashtchizadeh N. Assessment of oxidative stress in acute myeloid leukemia. Tehran University Medical Journal; Vol. 68, No. 11, Feb 2011: 649-655.
- 15-Tayyebikhosroshahi H, Sanaat Z, Farhoudi M, Keyani S, Khoshjoo F, Tayyebikhosroshahi M. Warfarin maintenance dose in Iranian patients. A cross sectional study in 5 cities of Iran. Neurosciences (Riyadh). 2011 Apr;16(2):125-8.
- 16- Aliasgarzadeh A, Sanaat Z, Karimi Avval S, Niafar M1, Agamohammadzadeh N. Thyroid Autoimmunity in Patients with Breast Cancer. Iranian Journal of Endocrinology and Metabolism , 2011; 13 (2 ):190-196.
- 17- Asvadi Kermani I,Taghavi K,Vaez Gharamaleki J,Sanaat Z,Evazi Ziaei J,et al.Association of Serum Level of 25 Hydroxy-Vitamin D With Prognosis Factors of Breast Cancer. Asian Pacific Journal of Cancer Prevention. 2011, 12: 1-4.
- 18-Sanaat Z, Nouri M, Hajipour B, Dolatkah R, Asvadi I, Vaez J, Eivazi J, Nikanfar A, Esfahani A, Chavoshi SH, Biorani H. Evaluation of Copper, Zinc, Cu/Zn, and VEGF in Patients with AML in Iran. Iran J Cancer Prev 2011; 4:151-153.
- 19- Sanaat Z , Rezazadeh M, Vaez Gharamaleki J, Eivazi Ziae , Esfahani A. Arsenic Trioxide in Patients with Refractory Multiple Myeloma: A Prospective, Phase II, Single-Arm Study.Acta Medica Iranica. 2011; 49(8):504-508.
- 20- Asvadi I ,Gahremanfard F,Sanaat Z, Dolatkah R. Is arsenic trioxide useful for the treatment of acute non promyelocytic leukemia. JCDR. 2011 November (Suppl-2), Vol-5(7): 1402-1405

- 21- Sanaat Z, Najafi A . Low-dose Cytosine arabinoside; disease free survival and overall survival in the elderly patients with Acute Myeloid Leukemia Pak J Med Sci 2011; 27 (5); 1211-1213.
- 22- Moosavi M.A, Moasses Ghafary S, Asvadi-Kermani I, Hamzeiy H, Rahmati M, Ahmadi A.H, Nikanfar A, Sanaat Z, Asadi-Khiavi M. Carbenoxolone induces apoptosis and inhibits survivin and survivin-ΔEx3 genes expression in human leukemia K562 cells. DARU, 2011; Vol. 19(6); 455-461.
- 23- Eivazi-Ziaei J , Dastgiri S , Asvadi Kermani I , Nikanfar A , Esfahani A , Sanaat Z , Sadeghi-Bazargani H, Vaez J . Age pattern of the occurrence of breast cancer in the northwest of Iran. Indian Journal of Cancer, October-December 2011; Vol; 48; Issue 4.406-409.
- 24- Esfahani A, Ghoreishi Z, Nikanfar A, Sanaat Z, Ghorbanihaghjo A. Influence of chemotherapy on the lipid peroxidation and antioxidant status in patients with acute myeloid leukemia. Acta Med Iran. 2012;50(7):454-8.
- 25- Herizchi S, Asvadi I, Piri I, Golchin M, Shabanlui R, Sanaat Z. Efficacy of Progressive Muscle Relaxation Training on Anxiety, Depression and Quality of Life in Cancer Patients Undergoing Chemotherapy at Tabriz Hematology and Oncology Research Center, Iran in 2010. Middle East Journal of Cancer :2012; 3 (1): 9-13.
- 26- Dolatkhah R, Bazavar MR, Poureisa M, Asvadi Kermani I, Vaez Gharamaleki J, Sanaat Z, Eivazi Ziaei J, Nikanfar A, Esfahani A, Chavoshi SH. Successful management of total knee replacement in a high responder hemophilia patient with a history of inhibitor. Iran Red Crescent Med J. 2013 Jan;15(1):18-20. doi: 10.5812/ircmj.3406. Epub 2013 Jan 5.
- 27- Ziaei JE, Sanaat Z, Asvadi I, Dastgiri S, Pourzand A, Vaez J. Survival analysis of breast cancer patients in northwest Iran. Asian Pac J Cancer Prev. 2013;14(1):39-42.
- 28- Dolatkhah R, Esfahani A, Torabi SE, Kermani IA, Sanaat Z, Ziaei JE, Nikanfar A, Chavoshi SH, Ghoreishi Z, Kermani AA. Delayed hemolytic transfusion reaction with multiple alloantibody (Anti S, N, K) and a monospecific autoanti-JK(b) in intermediate β-thalassemia patient in Tabriz. Asian J Transfus Sci. 2013 Jul;7(2):149-50. doi: 10.4103/0973-6247.115580.
- 29- Esfahani A, Ghoreishi Z, Abedi Miran M, Sanaat Z, Ostadrahimi A, Eivazi Ziaei J, Ghayour Nahand M, Asghari Jafarabadi M, Sorousheh Y, Esmaili H. Nutritional assessment of patients with acute leukemia during Induction chemotherapy: association with hospital outcomes. Leuk Lymphoma. 2013 Oct 15. [Epub ahead of print]
- 30- Sanaat Z, Tavangar SM, Vaez Gharamaleki J, Asvadi Kermani I, Eivazi Ziae J, Nikanfar AR, Esfahani A, Chavoshi SH, Bevrani H, Akbari F. Cyclooxygenase-2 Expression in Lymphoma in North-West of Iran. IJHOSCR . 2013; 7(1) :1-4.
- 31- Sanaat Z, Halimi M, Ghojzadeh M, Pirovi AH, Vaez Gharamaleki J, Esfahani A, Eivazi Ziae J, Asvadi Kermani I. Immunohistochemical Analysis of p53, Ki-67, CD44, HER-2/neu Expression Patterns in Gastric Cancer, and Their Association with One Year Survival in North-West of Iran. IJHOSCR .2013; 7(3):14-19.

- 32- Aliparasti MR, Almasi S, Sanaat Z, Aliakbar Movasaghpoor A, Khalili-Dizaji R, Sadeghi-Bazargani H. Gene Expression of VEGF-A and VEGF-C in Peripheral Blood Mononuclear Cells of Iranian Patients with Acute Myeloid Leukemia. *Turk J Hematol* 2013;30:137-143.
- 33-Kochaki nejad Z, Mohajjel Aghdam, Hassankhani H, sanaat Z. A brief review on patient care giver studies in Iran. *Intl Res J Appl Basic Sci*:2013; 5 (8), 999-1001.
- 34-Mohajjel Aghdam A, Sanaat Z, Hassankhani H, Kochaki Nejad Z. Self-efficacy in breast cancer patients: A systematic review. *Intl Res J Appl Basic Sci*:2013; 4 (5), 1007-1013.
- 35-Mohajjel Aghdam A, Sanaat Z, Hassankhani H, Kochaki Nejad Z. Self-efficacy in breast cancer patients: A systematic review. *Intl. Res. J. Appl. Basic. Sci*: 2013; 4 (5), 1007-1013.
- 36- Aghbali A, Vosough Hosseini S, Taghavi Zenouz A, Halimi M, Sanaat Z, Fattahi S, Khlafizadeh S. Tumor-associated Tissue and Blood Eosinophils in Oral Squamous Cell Carcinoma. *J Clin Res Gov*; 2013;2, 57- 60.
- 37- Dolatkah R, Ghojzadeh M, Asvadi-Kermani I, Sanaat Z, Tavassoli N, Gholchin M. Utilization evaluation of factor concentration and frequency of bleeds among patients with haemophilia "A" and haemophilia "B" in northwest Iran. *JRACM*:2013:1(2),63-67.
- 38-Esfahani A, Ghoreishi Z, Abedi Miran M, Sanaat Z, Ostadrahimi A, Eivazi Ziaei J, Ghayour Nahand M, Asghari Jafarabadi M, Sorusheh Y, Esmaili H. Nutritional assessment of patients with acute leukemia during induction chemotherapy: association with hospital outcomes. *Leuk Lymphoma*. 2014 Aug;55(8):1743-50. doi: 10.3109/10428194.2013.853766. Epub 2013 Nov 14.
- 39-Jahedi M, Shamsasenjan K, Sanaat Z, Aliparasti M, Almasi S, Mohamadian M, Nejati B, Kamalifar A, Movassaghpoor AA. Aberrant phenotype in Iranian patients with acute myeloid leukemia. *Adv Pharm Bull*. 2014;4(1):43-7. doi: 10.5681/apb.2014.007. Epub 2013 Dec 23.
- 40-Aghdam AM, Rahmani A, Nejad ZK, Ferguson C, Mohammadpoorasl A, Sanaat Z. Fear of Cancer Recurrence and its Predictive Factors among Iranian Cancer Patients. *Indian J Palliat Care*. 2014 May;20(2):128-33. doi: 10.4103/0973-1075.132632.
- 41 - Sanaat Z, Khalili R, Almasi S, Aliparasti MR, Tavangar SM, Movasaghpoor AK, Kazemi F, Davani A. Does Chemotherapy Change Expression of VEGF A&C and MVD in Acute Myeloid Leukemia?. *IJHOSCR* :2014; 8(3), 24-24.
- 42-Islambulchilar M, Asvadi I, Sanaat Z, Esfahani A, Sattari MR. Effect of Taurine on Febrile Episodes in Acute Lymphoblastic Leukemia, *Adv Pharm Bull*, 2015,5(x),1-6.
- 43- Islambulchilar M, Asvadi I, Sanaat Z, Esfahani A, Sattari M. Taurine attenuates chemotherapy-induced nausea and vomiting in acute lymphoblastic leukemia. *Adv Pharm Bull*, 2015, 5(x), 1-6.
- 44- Islambulchilar M, Asvadi I, Sanaat Z, Esfahani A, Sattari M. Effect of taurine on attenuating chemotherapy-induced adverse effects in acute lymphoblastic leukemia. *J Cancer Res Ther*. 2015 Apr-Jun;11(2):426-32. doi: 10.4103/0973-1482.151933.



- 45- Tajaddini A, Pourzand A, Sanaat Z, Pirouzpanah S. Dietary resistant starch contained foods and breast cancer risk: a case-control study in northwest of Iran. *Asian Pac J Cancer Prev.* 2015;16(10):4185-92.
- 46- Fakhrou A, Zohoori A, Ghafari MR, Mirzaaghazadeh M, Sanaat Z. P63 expression in sputum specimen of the patient with non-small cell carcinoma. *Int.J.Curr.Res.Aca.Rev.* 2015; 3(5): 384-394
- 47- Kochaki Nejad Z, Mohajjel Aghdam A, Hassankhani H, Sanaat Z. The Effects of a Patient-Caregiver Education and Follow-Up Program on the Breast Cancer Caregiver Strain Index. *Iran Red Crescent Med J.* 2016 Mar 28;18(3):e21627. doi: 10.5812/ircmj.21627.
- 48- Pourzand A, Tajaddini A, Pirouzpanah S, Asghari-Jafarabadi M, Samadi N, Ostadrahimi AR, Sanaat Z. Associations between Dietary *Allium* Vegetables and Risk of Breast Cancer: A Hospital-Based Matched Case-Control Study. *J Breast Cancer.* 2016 Sep;19(3):292-300.
- 49- Montazeri V , Jafarpour Sadegh F , Hosseinpour S , Mirzaei HR , Akbari E ,Ehsanin M , Akbari S , Asadi N , Mahmoudinezhad M , Mirtaheri E , Sanaat Z ,Pirouzpanah S . Reproductive Risk Factors of Breast Cancer among Women in Tehran and Northwest of Iran: A Case- Control Study. *Iranian Journal of Epidemiology.* 2016; 12(1): 1-9.
- 50- KochakiNejad Z, MohajjelAghdam A, Hassankhani H , Sanaat Z. FACTORS INFLUENCING FAMILY CAREGIVER STRAIN INDEX OF BREAST CANCER PATIENTS UNDERGOING CHEMOTHERAPY. *The Journal of Urmia Nursing and Midwifery Faculty.* 2015; Vol 13(3).
- 51- Morteza Mohammadpour, Jamal Eyvazi-Ziaei, Amin Bateni, Zohreh Sanaat, Fatheme Ghatreh-Samani, Laya Farzadi1, Mohammad Adibpour, Reza Shabanlouei. Changes of Ovarian Ultrasound Findings and Serum Anti-Mullerian Hormone Levels in Premenopausal Breast Cancer Patients before and after Chemotherapy. *Depiction of Health* 2017; 8(1): 28-33.
- 52-Toufan M, Pourafkari L, Ghahremani Nasab L, Esfahani A, Sanaat Z, Nikanfar A, Nader ND. Two-dimensional strain echocardiography for detection of cardiotoxicity in breast cancer patients undergoing chemotherapy. *J Cardiovasc Thorac Res.* 2017;9(1):29-34. doi: 10.15171/jcvtr.2017.04. Epub 2017 Mar 13.
- 53-Moghadam AR, Patrad E, Tafsiri E, Peng W, Fangman B, Pluard TJ, Accurso A, Salacz M, Shah K, Ricke B, Bi D, Kimura K, Graves L, Najad MK, Dolatkah R, Sanaat Z, Yazdi M, Tavakolinia N, Mazani M, Amani M, Ghavami S, Gartell R, Reilly C, Naima Z, Esfandyari T, Farassati F. Ral signaling pathway in health and cancer. *Cancer Med.* 2017 Dec;6(12):2998-3013. doi: 10.1002/cam4.1105. Epub 2017 Oct 18. Review.
- 54-Bagheri R, Sanaat Z, Zarghami N. Synergistic Effect of Free and Nano-encapsulated Chrysin-Curcumin on Inhibition of hTERT Gene Expression in SW480 Colorectal Cancer Cell Line. *Drug Res (Stuttg).* 2018 Jan 2. doi: 10.1055/s-0043-121338.

- 55-Boostani F, Dolatkah R, Fakhrjou A, Farassati F, Sanaat Z. Association of clinicopathologic characteristics and outcomes with *EZH2* expression in patients with breast cancer in East Azerbaijan, Iran. *Onco Targets Ther.* 2018 Jan 19;11:449-457. doi: 10.2147/OTT.S149210. eCollection 2018.
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- 58-Fathi E, Farahzadi R, Valipour B, Sanaat Z. Cytokines secreted from bone marrow derived mesenchymal stem cells promote apoptosis and change cell cycle distribution of K562 cell line as clinical agent in cell transplantation. *PLoS One.* 2019 Apr 22; 14(4):e0215678. doi: 10.1371/journal.pone.0215678. eCollection 2019.
- 59-Fathi E, Charoudeh HN, Sanaat Z, Farahzadi R. Telomere shortening as a hallmark of stem cell senescence. *Stem Cell Investig.* 2019 Mar 6;6:7. doi: 10.21037/sci.2019.02.04. eCollection 2019. Review.
- 60-Hassankhani H, Rahmani A, Taleghani F, Sanaat Z, Dehghannezhad J. Palliative Care Models for Cancer Patients: Learning for Planning in Nursing. *J Cancer Educ.* 2019 Apr 24. doi: 10.1007/s13187-019-01532-3.
- 61-Sanaat Z, Fakhrjou A, Farassati F, Dolatkah R. The Prognostic Value of Different Molecular Subtypes of Breast Cancer in Relation to Enhancer-of-Zeste Homologue 2 Expression. *JCDR.* 2019 Jul, Vol-13(7):1-6.
- 62-Dolatkah R, Dastgiri S, Asvadi Kermani I, Eivazi Ziaei J, Nikanfar AR, Sanaat Z, Eftekharsadat AT, Somi MH. KRAS, NRAS, and BRAF Mutation Pattern in Metastatic Colorectal Cancer: A Study from Northwest Iran. *JCDR.* 2019 Aug, Vol-13(8):9-13.
- 63-Dolatkah R, Irani Jam E, Nikanfar AR, Esfahani A, Chavooshi SH, Nejati B, Sanaat Z. Outcome analysis of acute myeloid leukemia patients treated with high dose daunorubicin. *Biomedical Research and Therapy.* 2019 Sep, 6(9):3347- 3351
- 64-Raeisi M, Ali Reza Nikhanfar AR, Nejati B, Movassaghpour Akbari AA, Dolatkah R, Roosta Y, Sanaat Z. Role of *CD135/CD117* on Prognosis and Overall Survival of Acute Myeloid Leukemia. *Asian Pac J Cancer Prev.* 2019 Sep 1; 20(9):2625-2631.

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- 66- Abedpor N, Movassaghpour Akbari AK, Sanaat Z. Lipid profile and oxidized lipoprotein levels in patients with acute myeloid leukemia. *Tehran Univ Med J. 2019 Oct 77(7):423-7.*
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## ABSTRACTS:

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- 2- Eavazi J., Nikanfar a., Sanaat z., Vaez J., et al., IHOP protocol in refractory ALL, Abstract book of 3<sup>th</sup> Iranian Congress of Hematology & Oncology Society, Tabriz., Iran, 12, Oct. 17-19, 2001.
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- 5- Ghaffari H,Alimoghaddam K,Foroughi F, Sanaat Z,et al, Assessment of chimerism after allogeneic marrow transplantation in iran.9<sup>th</sup> Asian pacific Bone marrow transplantation congress ,Tehran,Iran,Nov 2004.
- 6- Alimoghaddam K Ghaffari H, ,Foroughi F, Sanaat Z,et al, Effect of mixed chimerism on graft-versus-host disease,disease recurrence and survival after HLA identical marrow transplantation in iran.9<sup>th</sup> Asian pacific Bone marrow transplantation congress ,Tehran,Iran,Nov 2004.
- 7- Foroughi F Alimoghaddam K Ghaffari H, , Sanaat Z,et al, - Effect of mixed chimerism on graft-versus-host disease,disease recurrence and survival after HLA identical marrow transplantation in thalassemia.9<sup>th</sup> Asian pacific Bone marrow transplantation congress ,Tehran,Iran,Nov 2004.
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- 9-Sanaat Z,Esthad E.Enaluation effects of personal character in incidence of Acute Leukemia(AML,ALL).APCC ,Tehran,Iran, Nov 2007.
- 10-Sanaat Z,Dlatkhah R,Soleimani m,eivazi Zeiaei J,et al.Immunophenotyping of Acute Lymphoblastic Leukemia in tabriz hematology and oncology reaserch center in recent 10 years.8 th Iranian congress of Hematology and oncology ,Urmia,Iran, 9-11 oct 2008.
- 11- Sanaat Z,Dlatkhah R,Soleimani m,eivazi Zeiaei J,et al. Acute Lymphoblastic Leukemia in tabriz hematology and oncology reaserch center.8 th Iranian congress of Hematology and oncology ,Urmia,Iran, 9-11 oct 2008.
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- 14-Ghahremanfard F,Asvadi Kermani I,Sanaat Z,Dolatkhah R.Is arsenic trioxide useful fot the threatment of acute non promyelocytic leukemia?.the 5th Annual congress of iranian cancer association,20-22 oct 2009,Tehran,Iran .
- 15- Eivazi\_Ziaei J,Asvadi Kermani I,Nikanfar A,Esfahani A,Sanaat Z,et al.Age pattern of the occurrence of breast cancer in the northwest of iran.the 5th Annual congress of iranian cancer association,20-22 oct 2009,Tehran,Iran .

- 16- Sanaat Z ,Amizadeh Y,Movasagpour AA,Asnadi Kermani I,et al.The relationship between immunological markers ,disease free survival and overall survival in acute myeloid leukemia in north-west of iran.the 20<sup>th</sup> Asian Pacific Cancer Conference,12-14 nov 2009,Tsukuba,Japan.
17. Sanaat Z, Tayyebi Khosroshahi H, Farhoudi M , Keyani SJ, Khosbin F,Tayyebi Khosroshahi M.Determination of warfarin dose requirment in thrombotic and embolic disorders in iran.the 20<sup>th</sup> Asian Pacific Cancer Conference,12-14 nov 2009,Tsukuba,Japan.
- 18- Eivazi\_Ziaei J,Dastgiri S,Vaez J,Asvadi Kermani I,Nikanfar A,Esfahani A,Sanaat Z,et al.Age pattern of the occurrence of breast cancer in the north-west of iran. the 20<sup>th</sup> Asian Pacific Cancer Conference,12-14 nov 2009,Tsukuba,Japan.
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- 22- Sanaat Z,Rezazadeh M,Vaez j,Eivazi ziaei J,Esfahani A. Evaluation of Response to Arsenic Trioxide in patients with Refractory Multiple Myeloma. The 9<sup>th</sup> international cingress of medical oncology &hematology of iran.26-28 nov 2009,tehran,iran.
- 23- Doltkhah R,Kermani i.a,Sanaat Z,Seifi S,et al;clinical use of Haemate-P in inherited Von Willebrands disease:a patient with type 3 VWD and recurrent menometrorrhagi.XXIXth international Congress of the World Federation of Hemophilia.July 10-14,2010,Buenous Aires,Argentina.
- 24- Sanaat Z,M Nouri, Doltkhah R,Kermani i.a, Vaez j,Eivazi ziaei J, Nikanfar A, Esfahani A, Chsvoshi SH.Evaluation of plasma level copper , zn , cu/zn , VEGF in patient with AML before and after treatment.15 th Congress of the EHA .June 10-13, 2010,Baecelona,Spain.
- 25- Sanaat Z,Rezazadeh M,Vaez j,Eivazi ziaei J,Esfahani A. Evaluation of Response to Arsenic Trioxide in patients with Refractory Multiple Myeloma. 15 th Congress of the EHA .June 10-13, 2010,Baecelona,Spain.
- 26- Sanaat Z,Akbari F,Tavanghar SM, Vaez j,et al. Evaluation of cyclooxygenase-2 expressin in lymphoma. 12 th Congress of the Pathology .Nov 10-12 ,2010,Tehran,Iran.
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- 31- Mohajjel Aghdam A, Sanaat Z, Hassankhani H, Kochaki Nejad Z. Self-efficacy in breast cancer patients: A systematic review. Cancer Research Center. Shahid Behesti University, Tehran, Iran, Feb 2013.
- 32- Liu, Zhengian, Sanaat, Zohreh, Dolatkah, Roya, Kimura, Kyle, Ellipeddi, Pavani, Esfandyari, Tuba, Farassati, Faris. THERAPEUTIC TARGETING OF EZH2 AS A CANCER STEM CELL SPECIFIC ONCOGENE.
- 33- Ricke B, Shah K, Sclacz M, Camarata P, Lovick D, Peng W, Sanaat Z, et al. Ezh2, a novel target treatment of medulloblastoma. 3<sup>rd</sup> Biennial Pediatric Neuro-Oncology Basic and Translational Research Conference (May 7-8th, San Diego).
- 34- Ricke B, Shah K, Sclacz M, Camarata P, Lovick D, Peng W, Sanaat Z, et al. Ral A in biology therapy of MPNST in correlation to cancer stem cells. 3<sup>rd</sup> Biennial Pediatric Neuro-Oncology Basic and Translational Research Conference (May 7-8th, 2016; San Diego).
- 35- Effect of patient care giver education on cancer related self-efficacy. Kochaki Nejad Z, Mohajjel Aghdam A, Hassankhani H, Sanaat Z. the 3<sup>rd</sup> international and 6<sup>th</sup> national congress on Hematopoiesis Stem Cell Transplantation. Jan 14-16 26. Tehran. Iran
- 36- Sanaat Z, Bostane F, Fakhrjou A, Dolatkah R, Ghojzadeh M, Farassati F. Association of Polycomb Group Protein EZH2 expression with clinico-pathologic aspect of Breast Cancer. INTERNATIONAL CONGRESS CANCER PREVENTION & EARLY DETECTION INTEGRATION OF RESEARCH & ACTION. Tehran, I.R of Iran – 28\_30 January 2017.
- 37- Sanaat Z, Dolatkah R, Fakhrjou A, Farassati F. The prognostic value of different molecular subtypes of breast cancer in relation to Enhancer-of-zeste homologue 2 expression. ESMO 2018, Munche, Germany, 19-23 Oct 2018.
- 38- S pashaei, R Dolatkah, Z Sanaat, P Jabbaripour, G H de Bock. Breast cancer survival analysis in East Azarbaijan: Five year cancer registry data in Iran. ESMO 2018, Munche, Germany, 19-23 Oct 2018.
- 40- Z Sanaat, R Dolatkah, N Gholami. Prognostic value of high EZH2 expression in patients with

colorectal cancer in East Azarbaijan,Iran. ESMO ASIAN 2018, SINGAPORE, 23-25 Nov 2018.

41- Z Sanaat,R Dolatkah,A- R Nikhanfar,Y Roosta,A Fakhrjou. Clinicopathological Analysis of CD44 Expression in HER2 Positive Invasive Breast Cancer.16<sup>th</sup> St Gallen International Breast cancer Conference,Vienna,Austria,20-23 Mar 2019.

42-Jabbaripour, P; Sanaat, Z; Dolatkah, R; Somi, MH. Epidemiologic profile of gastric cancer in East Azerbaijan, Iran: 2 years population-based cancer registry results. European-Society-for-Medical-Oncology (ESMO) Asia Congress Location: Singapore, SINGAPORE Date: NOV 22-24, 2019.

#### **LECTURES , SPEECHES AT PROFESSIONAL CONFERENCE/MEETINGS:**

1-Thalassemia oral presentation in course of thalassemia ,Tabriz University of Medicine science ,Jun ,2001.

2-A case of nonhemophilic idiopathic antibody factor VIII 3th Iranian Congress of Hematology –Oncology Society ,oct,17-19,2001.

3- 3<sup>th</sup> Iranian hemato-oncology congress, tabriz,iran ,Tabriz university of Medical Science, oct ,2001.

4- Breast cancer .tehran university of Medical Science, apr ,2002.

5-4<sup>th</sup> Iranian hemato-oncology congress, mashad,iran,mashad university of Medical Science, jun 2004.

6-2<sup>th</sup> international congress on advanced in hematology and oncology and bone marrow transplantation ,Tehran ,iran, tehran university of Medical Science,sep,2002.

7-9<sup>th</sup> Asian pacific Bone marrow transplantation congress ,Tehran,Iran, tehran university of Medical Science,nov 2004.

8- Evaluation of angiogenesis in the bone marrow of patient with AML.4<sup>th</sup> Congress of Hematology & Oncology Society ,Mashad, July 2004.

Diagnosis and treatment of gastic cancer , Tehran,Iran, tehran university of Medical Science,feb,2005.

9-New dignosis and treatment NHL, Tehran,Iran, tehran university of Medical Science,jul,2005.

10-Head and neck tumor.tabriz ,iran, tabriz university of Medical Science,jan,2006.

11-Drug therapy in special malignat group, Tabriz university of Medical Science ,Jan ,2006.

12-New chemotherapy protocol in Head and Neck cancer , Tabriz university of Medical Science ,Jan 2006.

Role of endocrine therapy in breast cancer, Tehran,Iran, tehran university of Medical Science,jul,2006.

13-European Society of Medical oncology,31<sup>th</sup> ,Istanbul.Turkey 29sep-30oct 2006.

14-Inhibito Symposium for Iranian opinion Leader in hemophilia . kish Islsnd ,Iran ,23 nov 2006.

- 6<sup>th</sup> Iranian Medical Oncology congress, Shahid Beheshti University of Medical Science, Tehran, Iran, 25-27 Oct 2006.
- 15-Colorectal cancer conference, Tabriz University of Medical Science, Tabriz, Iran, 30 Nov 2006.
- 16-Chemotherapy in Kidney cancer, Tabriz university of Medical Science, Feb 2006.
- 17-Anemia, Tabriz university of Medical Science, Apr, 2006.
- 18-Lung cancer, Tabriz university of Medical Science, 8 Mar 2007.
- 19-Non Hodgkin Lymphoma, Tabriz university of Medical Science, 13 Apr, 2007.
- 20-laryngeal tumor, Tabriz university of Medical Science, 24 May, 2007.
- 21-thalassemia, Tabriz university of Medical Science, 12 Jul, 2007.
- 22-European Cancer conference, ECCO 14, Barcelona, Spain, 23-27 Sep 2007.
- 23-6<sup>th</sup> Middle East Oncology Conference, Muscat, Oman, 7-8 Feb 2008.
- 24-10<sup>th</sup> world congress on gastro-intestinal cancer, Barcelona, Spain, 25-28 June 2008.
- 25-Anemia, Tabriz university of Medical Science, Tabriz, Iran, 15 May 2008.
- 26-Lymphoma, Tabriz university of Medical Science, Tabriz, Iran, 12 June 2008.
- 27-Breast cancer, Tabriz university of Medical Science, Tabriz, Iran, 6 Nov 2008.
- 28-New therapy in Lymphoma, Tehran University Of Medical Science, Tehran, Iran, 1 Jun 2009.
- 29-Chemotherapy in colorectal cancer. Iranian association of surgeons. Tabriz university of Medical Science, Tabriz, Iran, 22 Aug 2009.
- 30-New treatment in prostate cancer. Tabriz university of Medical Science, Tabriz, Iran, 30 Aug 2009.
- 31- Sanaat Z, Rezazadeh M, Vaez j, Eivazi ziaei J, Esfahani A. Evaluation of Response to Arsenic Trioxide in patients with Refractory Multiple Myeloma. The 9<sup>th</sup> international congress of medical oncology & hematology of Iran. 26-28 Nov 2009, Tehran, Iran.
- 32- New treatment in breast cancer. Tabriz university of Medical Science, Tabriz, Iran, 17 Dec 2009.
- 33- bisphosphonate in cancer. Tabriz university of Medical Science, Tabriz, Iran, 25 Feb 2010.
- 32-CEMAI Oncology Conference. Istanbul, Turkey, 9-10 Apr 2010.
- 33-Breast Cancer. Tabriz university of Medical Science, Tabriz, Iran, 1 Jul 2010.
- 34 –ovarian cancer. Tabriz university of Medical Science, Tabriz, Iran, 2 Dec 2010.
- 35-ESMO. Milan, Italy, 8-12 Oct 2010.
- 36-ECCO. Stockholm, Sweden, 22-27, Sep 2011.
- 37- CEMAI Oncology Conference. Istanbul, Turkey, 13-14 Apr 2012.
- 38-EJG. Tabriz university of Medical Science, Tabriz, Iran, 16 Mar 2014.
- 39-Anemia. Tabriz university of Medical Science, Tabriz, Iran, 2 June 2014.
- 40-Breast cancer. Tabriz university of Medical Science, Tabriz, Iran, 18 Dec 2014.
- 41-Colon cancer. Tabriz university of Medical Science, Tabriz, Iran, 8 Jan 2014.



- 42-Ovarian cancer.Tabriz university of Medical Science,Tabriz ,Iran,22 Jan 2014.
- 43-Lung cancer.Tabriz university of Medical Science,Tabriz ,Iran,5 Feb 2014.
- 44-Gastric cancer. Tabriz university of Medical Science,Tabriz ,Iran,13 Jul 2015.
- 45- Breast cancer.Tabriz university of Medical Science,Tabriz ,Iran,18 Dec 2016.
- 46- Breast cancer.Tabriz university of Medical Science,Tabriz ,Iran,18 Dec 2017.
- 47- NET.Tabriz university of Medical Science,Tabriz ,Iran,18 Dec 2018.
- 48- Breast cancer.Tabriz university of Medical Science,Tabriz ,Iran,31 Jan 2018.
- 49- Gastric cancer, Tabriz university of Medical Science,Tabriz ,Iran,2 May 2019.
- 50-CLL, Tabriz university of Medical Science,Tabriz ,Iran,25 Jul 2019.
- 51-IDA, Tabriz university of Medical Science,Tabriz ,Iran,8 Agu 2019.
- 52-Prostate cancer, Tabriz university of Medical Science,Tabriz ,Iran,10 Oct 2019.

### **Participation in Workshops:**

- 1-Family planning, isfahan university of medical science,sep, 1994.
- 2-New nutrition and prevention in cardiac disease, isfahan university of medical science,sep, 1998.
- 3-Education seminar on rehabilitation of cardiac patient, , isfahan university of medical science,nov, 1998.
- 4-Endocrine problem in internal medicint, , isfahan university of medical science,apr,1999.
- 5-Gastro-intestinal disease, , isfahan university of medical science,apr,1999.
- 6- Gastro-intestinal and hepatic disease, shiraz university of medical science,nov 1999.
- 7-Practice for writing article , Tabriz university of Medical Science, jun 2001.
- 8-MCQS, tabriz ,iran, tabriz university of Medical Science,apr,2006.
- 9-workshop on:polymerase chain reaction (PCR)principles & Applications,biothechnology Reasearch center ,Tabriz University of Medical Science , Tabriz,Iran ,6-8 feb 2006.
- 10- workshop on:Clinical Trials,Tehran ,Iran,19-20 Apr 2007.
- 11- workshop on:Data Base,Tabriz,Tabriz university of Medical Science ,Iran,15 jan 2009.
- 12- workshop on:ISI, Tabriz,Tabriz university of Medical Science ,Iran,22 jan 2009.
- 13- workshop on:scholarship of teaching, Tabriz,Tabriz university of Medical Science ,Iran,22 Feb 2009.
- 14- workshop on:GCP, Tabriz,Tabriz university of Medical Science ,Iran,5 Mar 2009.
- 15-principal of spss ,Tabriz,Tabriz university of Medical Science ,Iran,21Dec 2009-4 Jun 2010.
- 16- Practice for writing article , Tabriz university of Medical Science, March 2014.

### **Medical & Extra medical Interests:**

BREAST CANCER.  
SPORT, SWIMMING