



دانشگاه علوم پزشکی و خدمات بهداشتی درمانی استان همدان
دانشکده دندانپزشکی



نام و نام خانوادگی: سوسن ایرانی

آخرین مدرک تحصیلی: *PhD* از دانشگاه گریفیت استرالیا در رشته پزشکی مولکولی و
دکترای تخصصی در رشته پاتولوژی دهان و فک و صورت از دانشگاه علوم پزشکی شهید بهشتی

تاریخ تولد: ۱۳۳۸ رتبه علمی: دانشیار

گروه آموزشی: آسیب‌شناسی دهان و فک و صورت

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آدرس محل کار: همدان، خیابان شهید فهمیده، روبروی پارک مردم، دانشکده دندانپزشکی

تلفن محل کار: ۳۸۳۸۱۰۵۹ دورنگار: ۳۸۳۸۱۰۸۵

سوابق تحصیلات دانشگاهی:

۱- اخذ مدرک دکترای دندانپزشکی از دانشگاه فردوسی مشهد در سال ۱۳۶۴

عنوان پایان نامه: بررسی نمای رادیوگرافی ۱۰۰ مورد ژانت سل گرانولوما

۲- اخذ مدرک دکترای تخصصی در رشته پاتولوژی دهان و فک و صورت از دانشگاه شهید بهشتی در سال ۱۳۸۱

عنوان پایان نامه: بررسی قدرت تشخیصی رنگ آمیزی H&E در تشخیص سارکومهای اندیفرانسیه ناحیه سر و گردن

۳- اخذ دیپلم در رشته Tropical Medicine & Public Health از دانشگاه هامبولت آلمان

۴- اخذ مدرک PhD از دانشگاه گریفیت استرالیا

The Endothelin Axis and Angiogenesis in Papillary Thyroid Carcinoma

عنوان پایان نامه:

سوابق آموزشی:

۱. تدریس دروس بافت شناسی و جنین شناسی دهان و فک و صورت ، پاتولوژی دهان و فک و صورت نظری و عملی، بیولوژی دهان به دانشجویان از سال ۱۳۸۱ تا کنون
۲. تدریس بافت شناسی و جنین شناسی دهان و فک و صورت ، پاتولوژی دهان و فک و صورت نظری و عملی به رزیدنتهای گروههای مختلف و پاتولوژی دهان و فک و صورت
۳. تدریس پاتولوژی دهان و فک و صورت نظری و عملی به دانشجویان دندانپزشکی در دانشگاه گریفیت استرالیا
۴. تدریس پاتولوژی عمومی نظری و عملی از سال ۱۳۹۳ تاکنون
۵. تدریس پاتولوژی عمومی نظری و عملی به دانشجویان خارجی
۶. تدریس کلیه دروس بر اساس کوریکولوم

سوابق اجرایی:

- (۱) نماینده دانشکده در جلسات شورای تحصیلات تکمیلی ۱۳۸۲-۱۳۸۳
- (۲) مسئول سمینارهای علمی داخل دانشکده ۱۳۸۶- ۱۳۸۲
- (۳) راه اندازی بخش و آزمایشگاه پاتولوژی دهان و فک و صورت ۱۳۸۱
- (۴) مدیر گروه بخش پاتولوژی دهان و فک و صورت ۱۳۸۸- ۱۳۸۶
- (۵) مسئول کمیته ارزیابی آزمونهای دانشکده ۱۳۸۹- ۱۳۸۶
- (۶) همکاری جهت اخذ موافقت راه اندازی دوره آموزش رزیدنت پاتولوژی دهان و فک و صورت ۱۳۸۸-۱۳۸۶
- (۷) راه اندازی وب سایت انگلیسی ۱۳۸۷-۱۳۸۶
- (۸) همکاری جهت راه اندازی مجله انگلیسی زبان دانشکده دندانپزشکی ۱۳۸۸ تا کنون
- (۹) عضو هیئت تحریریه مجله دانشکده دندانپزشکی Avicenna Journal of Dental Research از سال ۱۳۸۸

تاکنون

- (۱۰) عضو شورای پژوهشی و پایان نامه ۱۳۸۸-۱۳۸۹
- (۱۱) سرپرست تخصصی از سال ۱۳۹۴ تا کنون
- (۱۲) عضو مرکز تحقیقات دانشکده دندانپزشکی از سال ۱۳۹۴ تاکنون
- (۱۳) نماینده گروه پاتولوژی دهان و فک و صورت در کوریکولوم آموزشی در سال ۹۵-۹۴
- (۱۴) عضو کمیته ارزیابی درونی ۱۳۹۶
- (۱۵) عضو کمیته آموزش مجازی از ۱۳۹۹
- (۱۶) نماینده بخش پاتولوژی دهان و فک و صورت در پرونده الکترونیک از سال ۱۳۹۸
- (۱۷) استاد مشاور انجمن علمی دانشجویی سلولهای بنیادی و پزشکی بازساختی

- (۱۸) عضو کمیته آموزش بالینی از ۱۳۹۹
- (۱۹) نماینده دانشکده در مرکز تحقیقات دانشجویی
- (۲۰) نماینده گروه در شورای پژوهشی از سال ۱۴۰۱

جوایز و تقدیر نامه ها

- ۱- انتخاب به عنوان پژوهشگر برتر در سال ۱۳۸۴
- ۲- اخذ عنوان سخنران ارشد از دانشگاه گریفیت استرالیا از سال ۲۰۱۴ تاکنون
- ۳- انتخاب به عنوان پژوهشگر برتر در سال ۱۳۹۵
- ۴- انتخاب به عنوان استاد نمونه در سال ۱۴۰۰
- ۵- انتخاب به عنوان پژوهشگر برتر در سال ۱۴۰۰
- ۶- تجلیل از طرف ریاست و معاونت تخصصی دانشکده جهت تعلیم رزیدنت و اخذ رتبه دوم کشوری توسط رزیدنت
- ۷- انتخاب به عنوان استاد برتر در سال ۱۴۰۱

سوابق پژوهشی: مقالات

- 1) **Irani S**, Alimohammadi S, Keyhan Shookoh S. The Role of Amelogenin Protein in the Development of Human Primary Teeth. *Iranian Journal of Neonatology*. 2023; 14(3):20-27.
- 2) **Irani S**, Miresmaeili A, Shahidi Hamadani H. Web design software to record the characteristics of children with cleft palate/cleft lip. *Dent Res J (Isfahan)*. 2023 Mar 28; 20:42.
- 3) **Irani S**, Khamverdi Z, Soltanian A, Bagheri O. Academic Dishonesty in the Dental Faculty: Relations Among Students' Behavior, Attitudes, and Interpretation. *Avicenna J Dent Res*. In press.
- 4) **Irani S**, Dehghan A, Kalvandi Z. Correlation of Demographic and Clinicopathological Features of Salivary Pleomorphic Adenoma. *Journal of Dentistry*. In press.
- 5) **Irani S**, Alimohammadi S, Najafian T. Immunohistochemical localization of Endothelin- 1 and Endothelin A receptor in human primary tooth enamel organ. *Journal of dentistry*. September 2023; 24(3): 328-334

- 6) **Irani S.** Diagnostic strategies for early detection of oral squamous cell carcinoma: A review article. *Avicenna J Dent Res.* In press.
- 7) **Irani S,** Jamshidi S, Amini E, Vaziriamjad S, Atapour P. Giant Cell Fibroma: A Report of Seven Cases. *Avicenna J Dent Res,* 2022; 14(2):89-91.
- 8) Behzad Fazli, **Irani S,** Hassan Bardania, Mahdih-Sadat Moosavi, Bita Rohani. Prophylactic effect of topical (slow-release) and systemic curcumin nano-niosome antioxidant on oral cancer in rat. *BMC Complementary Medicine and Therapies.* 2022; 22(1): 1-10
- 9) **Irani S.** Immune responses in SARS-CoV-2, SARS-CoV and MERS-CoV infections: A Comparative Review. *International Journal of Preventive Medicine.* 2022 Mar 12; 13:45.
- 10) **Irani S,** Alimohammadi S, Najafian T. Evaluation of the Expression Levels of Endothelin-1 and its Receptor (ETAR) in Dental Lamina during Different Stages of Development of Human Fetal Teeth. *Avicenna Journal of Clinical Medicine.* 2021;28(2):79-86.
- 11) Mollabashi V, **Irani S,** Kazemisaleh A, Gharagozlou S, Seyedtabib M. Comparison of Casein Phosphopeptide Amorphous Calcium Phosphate Fluoride and Fluoride Varnish on Remineralization of Early Caries Lesions Around Orthodontic Brackets. *Indian Journal of Forensic Medicine & Toxicology.*2021;15 (2): 3732-3738.
- 12) **Irani S.** MicroRNAs Contribute to Metastasis by Regulating Autophagy: Recent Concepts. *Middle East Journal of Cancer.* 2021.
- 13) **Irani S.** New Insights into Oral Cancer—Risk Factors and Prevention: A Review of Literature. *International Journal of Preventive Medicine.* 2020; 11: 202.
- 14) **Irani S,** Rafizadeh M. *BRCA1/2* Expression Patterns in Different Grades of Oral Squamous Cell Carcinoma. *Middle East Journal of Cancer.* 2020; 11 (4), 390-398
- 15) **Irani S,** Barati I, Badiei M. Periodontitis and oral cancer-current concepts of the etiopathogenesis. *Oncol Rev.* 2020 Feb 18; 14(1): 465. doi: 10.4081/oncol.2020.465.
- 16) **Irani S,** Amiri N. Endocan Expression Profile in Different Grades of Oral Squamous Cell Carcinoma. *Int J Cancer Manag.* 2019; 12(9): e82413. doi: 10.5812/ijcm.82413.
- 17) **Irani S.** Emerging insights into the biology of metastasis: A review article. *Iran J Basic Med Sci.* 2019; 22, (8): 833-847
- 18) **Irani S,** Shokri G. The Role of miR-143, miR-145, and miR-590 in Expression Levels of CD44 and Vascular Endothelial Cadherin in Oral Squamous Cell Carcinoma. *Middle East Journal of Cancer;* 2018; 9(4): 288-294

- 19) **Irani S**, Mohsenifar Z. Endocan, ET-1, and ETAR Expression Profiles in Unicystic Ameloblastoma, Multicystic Ameloblastoma, and Ameloblastic Carcinoma. *Middle East Journal of Cancer*. 2019; 10(3), 167-174
- 20) Maroof H, **Irani S**, Ariana A, Vider J, Gopalan V, Lam AK. Interactions of vascular endothelial growth factor and p53 with miR-195 in thyroid carcinoma: possible therapeutic targets in aggressive thyroid cancers. *Curr Cancer Drug Targets*. 2019;19(7):561-570. doi: 10.2174/1568009618666180628154727.
- 21) **Irani S**, Dehghan A. The Expression and Functional Significance of VE-cadherin, CD44 and vimentin in Oral Squamous Cell Carcinoma *Journal of International Society of Preventive & Community Dentistry* 2018 Mar-Apr;8(2):110-117. doi: 10.4103/jispcd.JISPCD_408_17.
- 22) **Irani S**, Jafari B. Expression of vimentin and CD44 in Mucoepidermoid Carcinoma: A role in tumor growth *Indian Journal of Dental research* 2018 May-Jun;29(3):333-340. doi: 10.4103/ijdr.IJDR_184_17.
- 23) **Irani S**, Dehghan A. Expression of vascular endothelial-cadherin in mucoepidermoid carcinoma: Role in cancer development *Journal of International Society of Preventive & Community Dentistry* 2017 ;7:301-307
- 24) **Irani S**. Orofacial bacterial infectious diseases: An update. *J Int Soc Prev Community Dent*. 2017 Oct;7(Suppl 2): S61-S67. doi: 10.4103/jispcd.
- 25) **Irani S**, Bidari F. BRCA1/2 mutations in Salivary Pleomorphic Adenoma and Carcinoma ex Pleomorphic Adenoma. *J Int Soc Prev Community Dent*. 2017 Nov;7(Suppl 3): S155-S162. doi: 10.4103
- 26) **Irani S**, Foroughi F. Histologic Variants of Calcifying Odontogenic Cyst:A Study of 52 Cases. *J Contemp Dent Pract*. 2017 18(8):688-694.
- 27) **Irani S**. Metastasis to the Jawbones: A review of 453 cases. *J Int Soc Prev Community Dent*. 2017 Mar-Apr; 7(2): 71–81.
- 28) **Irani S**. Oral Health and Related Factors: An Update. *Journal of International Oral Health* 2016; 8(12):1140-1144
- 29) **Irani S**, Dalband M. Orthokeratinized Odontogenic Cyst: An Unusual Histopathological Presentation. *Avicenna Journal of Dental Research*. 9 (1), e26084-e26084
- 30) **Irani S**. Metastasis to the oral soft tissues: A review of 412 cases. *Int Soc Prevent Communit Dent*. 2016; 6(5) 393-401
- 31) **Irani S**. Pre-Cancerous Lesions in the Oral and Maxillofacial Region: A Literature Review with Special Focus on Etiopathogenesis. *Iranian Journal of Pathology* 2016; 11 (4), 303-322
- 32) **Irani S**. MiRNAs Signature in Head and Neck Squamous Cell Carcinoma Metastasis: A Literature Review. *Journal of dentistry*. 2016 June; 17(2): 71-83.

- 33) **Irani S**, Bidari Zerehpoush F, Sabeti S. Prevalence of Pathological Entities in Neck Masses: A Study of 1208 Consecutive Cases. *Avicenna J Dent Res*. 2016 June; 8(1): e25614.
- 34) **Irani S**. Herbal Medicine and Oral Health: A Review. *Journal of International Oral Health* 2016; 8(10):989-994
- 35) **Irani S**, Monsef Esfahani A, Ghorbani A. Dysplastic change rate in cases of oral lichen planus: A retrospective study of 112 cases in an Iranian population. *J Oral Maxillofac Pathol* 2016;20:395-9
- 36) **Irani S**. Distant metastasis from oral cancer: A review and molecular biologic aspects *J Int Soc Prevent Communit Dent* 2016; 6:265-71
- 37) **Irani S**, Bidari Zerehpoush F, Sabeti S. How useful is the AgNOR Staining Method for the Diagnosis of Salivary Gland Tumors? *Avicenna J Dent Res*. 2016 September; 8(3): e25275.
- 38) Monsef Esfahani A, **Irani S**, Sabeti S, Bidari Zerehpoush F. The Possible Role of *Helicobacter pylori* in the Development of Sjogren's Syndrome and Chronic Sialadenitis. *Avicenna J Dent Res*. 2015 June; 7(1): e23212.
- 39) **Irani S**, Monsef Esfahani A, Sabeti S, Bidari Zerehpoush F. Detection of *Helicobacter pylori* in Oral Lichen Planus and Oral Lichenoid Reaction. *Avicenna J Dent Res*. 2014 December; 6(2): e23213.
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- 41) **Irani S**, Salajegheh A, Gopalan V, Smith RA, Lam A. Expression profile of endothelin 1 and its receptor endothelin receptor A in papillary thyroid carcinoma and their correlations with clinicopathologic characteristics. *Ann Diagn Pathol*. 2014 Apr;18(2):43-8.
- 42) **Irani S**, Salajegheh A, Smith RA, Lam AK. A review of the profile of endothelin axis in cancer and its management. *Crit Rev Oncol Hematol*. 2014 Feb;89(2):314-21.
- 43) **Irani S**, Monsef Esfahani A, Bidari Zerehpoush F. Detection of *Helicobacter pylori* in oral lesions. *J Dent Res Dent Clin Dent Prospects* 2013; 7(4):230-237
- 44) Monsef Esfahani F, **Irani S**. Detection of the expression level of Her2/neu in Odontogenic cysts. *Oromieh Medical J*. 2011; 5:513-520
- 45) **Irani S**. Metastasis to head and neck area: a 16-year retrospective study. *Am J Otolaryngol*. 2011 Jan-Feb;32(1):24-7
- 46) **Irani S**. Squamous Cell Carcinoma arising in Oral Lichen Planus: A case report. *Dental Journal of Hamadan* 2010;1(2):87-93.

- 47) Ahmadi Motemayel F, Abdolsamadi HR, **Irani S**, Bardal R. Orofacial Granulomatosis of the Upper Lip: A Case Report. DJH 2009; Vol.1, No.1 .37-40
- 48) **Irani S**, Meschi M, Godarzi A. Influence of Education on Oro-dental Knowledge among School Hygiene Instructors. J Dent Res Dent Clin Dent Prospects. 2009; 3 (2):56-9.
- 49) **Irani S**, Moshref M, Lotfi A. A Case report of Metastatic Gastric Adenocarcinoma of the Mandible. J Oral Oncology Extra 2004; 40:85-87.
- 50) Moshref M, **Irani S**, Karimzadeh M, Eslami B. Report of two cases of Mandibular Infected Buccal Cyst. Beheshti University Dental journal. 2003; 21(4):571-577.
- 51) Karimzadeh M, **Irani S**, Moshref M, Eslami B. Report of a case of Central Mucoepidermoid Carcinoma. Beheshti University Dental journal. 2002; 20(2):236-241.

شرکت در کنفرانسهای مختلف و ارائه پوستر

1. Oral presentation of: A Case report of Metastatic Gastric Adenocarcinoma of the Mandible in Shiraz, Iran in Sep. 2004.
2. Oral Presentation of Oral complications of anti- neoplastic therapy (chemotherapy, radiotherapy and dental treatment protocol in these cases in the Faculty of Dentistry, Hamadan. Oct. 2005
3. Poster presentation in 13th congress on Oral Pathology and Medicine was held in Australia (Brisbane) for presenting of two posters.
 - A) Comparison of diagnostic power of H&E staining method in undifferentiated soft tissue sarcomas in head & neck region.
 - B) Is Oral Lichen Planus a pre-malignant lesion? Evidence from a case report.
4. Poster presentation in 7th conference on head and neck cancer: Neck masses: A retrospective study of 952 cases. In San Fransisco, USA, 2008.
5. Poster presentation in Dental Students Congress holding in Shiraz, Iran in Sep 2006 titled" Common Misdiagnoses in Maxillary Anterior Periapical Lesions. A case report of Nasolabial Cyst.
6. Oral Presentation in 2nd Pathology Congress in Tehran, Iran in Nov 2006
 - A) Frequency of Dysplastic Changes in Oral Lichen Planus in teaching hospitals of Hamadan City during 10 years (1996-2006).
 - B) Accuracy of Clinical and Histopathological Diagnosis of Oral & Maxillofacial Lesions in Faculty of Dentistry Hamadan University.
7. Poster presentation in 2011 Gold Coast Health and Medical Research Conference: Neck masses: A retrospective study of 1208 cases.
8. Poster presentation in 2012 Gold Coast Health and Medical Research Conference: The correlation between

ET axis, miRNA-195 expression levels in Papillary Thyroid Cancer

9. Poster presentation at 6th Australian health and Medical Conference 25-28 November 2012. Ali Salajegheh, Sahar Pakneshan, Elliot Dolan-Evans, Bruce Homan, **Soussan Irani**, Md. Atiqur Rahman, Nicole Langsford, Esther LS Kwong, Sheldon Zhang, Kais Y Kasim, Tran Lee, Tommy C Lam, Robert A Smith, Alfred KY Lam. Potential co-regulatory role of VEGF-A and VEGF-C in angiogenic event in thyroid cancer.

10. Poster presentation at 3rd Euro Congress and Expo on Dental & Oral Health, 2015: **Soussan Irani**, Alireza Monsef Esfahani, Farahnaz Bidari Zerehpoush. Detection of Helicobacter pylori in Oral Lesions.

11. Poster presentation at 3rd Euro Congress and Expo on Dental & Oral Health, 2015: **Soussan Irani**, Alireza Monsef Esfahani, Shahram Sabeti, Farahnaz Bidari Zerehpoush. Detection of Helicobacter pylori in Oral Lichen Planus and Oral Lichenoid Reaction.

12. Choosing the best scaffold for dental stem cell culture. 3rd symposium for dental stem cells and dental tissue reengineering. June 2019, Hamadan, Iran.

13. Poster presentation at Iranian Congress of Oral and Maxillofacial Pathologists, 2022. Prevalence and Characteristic of tongue lesions in the Oral and Maxillofacial Pathology department of Dental Faculty of Hamadan University of Medical Sciences from 2004-2022. Anita Lahooti, **Soussan Irani**

استاد راهنمای پایان نامه

1. Assessment of water contamination in Dental Units in Dental Private Clinics in Hamadan City, Iran in 2004.
2. The frequency of Squamous Cell Carcinoma in Head & Neck Area in teaching hospitals of Hamedan, IRAN during 6 years.
3. The prevalence of Actinic Cheilitis in teaching hospitals of Hamadan, Iran during 2 years (2003-2004).
4. Frequency of Dysplastic Changes in Oral Lichen Planus in educational hospitals of Hamadan City from 1996 to 2006.
5. Accuracy of Clinical and Histopathological Diagnosis of Oral & Maxillofacial Lesions in Faculty of Dentistry Hamadan University.
6. Awareness and Attitudes of Dental students toward Hepatitis during 2001-2005.
7. Evaluation of the level of the influence of oro-dental hygiene education on increasing the awareness of school hygiene instructors.
8. Comparative evaluation of morphologic and cytomorphometric of oral mucosa in Diabetic patients by exfoliative cytology.
9. A review study on the role of Cytokines in pathogenesis of periodontal diseases.
10. Achievement of Educational Objectives in Oral Pathology Department of Dental Faculty, the University of Hamadan of Medical Sciences, Hamadan, Iran.
11. Behavior, interpretation and attitude towards cheating Hamadan dental school students in the academic 2015-2016

12. Evaluation of quantitative and qualitative exfoliative cytology of buccal mucosal in smokers in comparison to non-smokers
13. Web based software design and registration of infants with cleft palate /cleft lip since the first semester 1395-1396 until October 1397
14. Effect of mixture of aminoacids, nanosilver and adcortyl on oral wound healing in rats: a randomized experimental study
15. Relationship between histopathologic and radiographic features of bone after diode low level laser therapy in osteoporotic rats
16. Assesment of histological variants of pleomorphic adenoma in Besat hospital from 1385 to 1396
17. Evaluation of expression levels of AMELX during different stages of development of teeth by using Immunohistochemistry
18. Evaluation of expression levels of DSPP during different stages of development of embryonic teeth by using Immunohistochemistry
19. Evaluation of expression levels of Endothelin-1 and its receptor (ETAR) during different stages of development of embryonic teeth by using Immunohistochemistry
20. Comparative Evaluation of Fluoride Varnish & Casein Phosphopeptide Amorphos Calcium Phosphate Fluoride in Remineralization of White Spot Lesion Around Orthodontic Brackets
21. Evaluation of the Prophylactic Effect of topical (slow-release) and systemic Curcumin Anti-Oxidant in Induced Oral Cancer in Rat.
22. Evaluation of Endocan proteoglycan staining levels in pleomorphic adenoma and its correlation with clinical features using immunohistochemistry technique.
23. Assessment of dysplastic changes rate in actinic cheilitis samples available in the archive of the Pathology Department of Sina Hospital in Hamadan from 2009 to 2019.
24. Assessment of dysplastic changes rate in oral lichen planus samples available in the archive of the Pathology Department of Sina Hospital in Hamadan from 2009 to 2019
25. Preparation and charachterization of chitosan/alginate/hydroxyapatite composite scaffold for bone tissue engineering.
26. Evaluation of the effectiveness of liquorice paste on oral ulcers healing in rat: an animal study
27. Evaluation of the correlation of radiographic evidence with clinical and histological observations in the presence of retromolar canal
28. Clinical and pathological assessment of basal cell carcinoma (BCC) in head and neck area in the Pathology Department of Be'sat Hospital in Hamadan from 2011 to 2021
29. Investigating the key genes, upstream regulators, and signaling pathways involved in the process of development of human teeth at the 12th week of gestation: A bioinformatic study
30. Evaluation of the correlation of radiographic evidence with clinical and histological observations in the presence of retromolar canal
31. Evaluation of the effectiveness of amplified honey and adhesive mucous gel containing licorice extract on the healing of oral ulcers in rats: An animal study

32. Investigating the effectiveness of fortified honey and adhesive mucus gel containing licorice extract on the healing of oral ulcers in rats: an animal study.

کتاب چاپ شده

Bone Pathology in Oral and Maxillofacial region in Farsi.

لاین تحقیقاتی

1. Biology of metastasis
2. Angiogenesis and lymphangiogenesis in cancers
3. Stem cells
4. cancer stem cells
5. odontogenesis

۴. پروژه‌های خاتمه یافته

1. Assessment of Standardized AgNOR staining as a diagnostic measure in salivary gland tumors in Iran.
2. Detection of H Pylori in some Oral Lesions.
3. Detection of overexpression of HER2/neu in some Jaws Lesions.
4. Evaluation of expression levels of CD44, Vimentin and VE-Cadherin in different grades of Oral Squamous Cell Carcinoma.
5. Evaluation of expression levels of CD44, Vimentin and VE-Cadherin in different grades of Mucoepidermoid Carcinoma.
6. Web based softwere design and registration of infants with cleft palate /cleft lip since the first semester 1395-1396 until October 1397.
7. Assesment of histological variants of pleomorphic adenoma in Besat hospital from 1385 to 1396.
8. Evaluation of expression levels of Endothelin-1 and its receptor (ETAR) , DSPP, AMELX during different stages of development of teeth by using Immunohistochemistry.
9. Preparation and charachterization of chitosan/alginate/hydroxyapatite composite scaffold for bone tissue engineering