

## Prof. ARZU BEKLEN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-1024-0257

Yoksis Researcher ID: 20710

### Education Information

Doctorate, University of Helsinki, Diş Hekimliği-Periodontoloji, Finland 2003 - 2010

Postgraduate, Bogazici University, Institute Of Biomedical Engineering, Turkey 1998 - 2002

Undergraduate, Ankara University, Diş Hekimliği Fakültesi, Diş Hekimliği Pr., Turkey 1992 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, CHARACTERIZATION OF CYTOKINES, MATRIX METALLOPROTEINASES AND TOLL-LIKE RECEPTORS IN HUMAN PERIODONTAL TISSUE DESTRUCTION, University of Helsinki, Diş Hekimliği-Periodontoloji, 2010

Postgraduate, Comparison of surface structures of tooth prepared by high speed rotary burs and air abrasion, Bogazici University, Biyomedikal Mühendisliği Enstitüsü, 2002

### Research Areas

Health Sciences, Dentistry, Clinical Sciences, Periodontology

### Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, DİŞ HEKİMLİĞİ FAKÜLTESİ, KLİNİK BİLİMLER BÖLÜMÜ, 2017 - Continues

Assistant Professor, Eskisehir Osmangazi University, DİŞ HEKİMLİĞİ FAKÜLTESİ, KLİNİK BİLİMLER BÖLÜMÜ, 2012 - Continues

### Academic and Administrative Experience

Eskisehir Osmangazi University, DİŞ HEKİMLİĞİ FAKÜLTESİ, KLİNİK BİLİMLER BÖLÜMÜ, 2017 - Continues

Eskisehir Osmangazi University, DİŞ HEKİMLİĞİ FAKÜLTESİ, KLİNİK BİLİMLER BÖLÜMÜ, 2012 - 2014

Eskisehir Osmangazi University, DİŞ HEKİMLİĞİ FAKÜLTESİ, KLİNİK BİLİMLER BÖLÜMÜ, 2012 - 2014

## Courses

PERİODONTOLOJİ STAJI (4.SINIF), Undergraduate, 2017 - 2018, 2016 - 2017

PERİODONTOLOJİ STAJI (5.SINIF), Undergraduate, 2017 - 2018, 2016 - 2017

PERİODONTOLOJİ, Undergraduate, 2017 - 2018, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluation of removal efficiency of capping materials used in pulp revascularization in vitro**  
Cebeci G. Y., Almaz M. E., ORHAN E. O., BEKLEN A.  
BMC Oral Health, vol.23, no.1, 2023 (SCI-Expanded)
- II. **Nickel ion release and surface analyses on instrument fragments fractured beyond the apex: a laboratory investigation**  
TOKER S. M., ORHAN E. O., BEKLEN A.  
BMC ORAL HEALTH, vol.23, no.1, 2023 (SCI-Expanded)
- III. **Severity and progression rate of periodontitis are associated with an increased risk of hypertension of patients attending a university clinic**  
Yildirim B. G., Aksit C., Mutlu M., Ainola M., Eklund K. K., Leskela J., Pussinen P., BEKLEN A.  
BMC ORAL HEALTH, vol.22, no.1, 2022 (SCI-Expanded)
- IV. **The impact of smoking on oral health and patient assessment of tobacco cessation support from Turkish dentists.**  
BEKLEN A., YILDIRIM B., MİMAROĞLU M., YAVUZ M. B.  
Tobacco induced diseases, vol.19, pp.49, 2021 (SCI-Expanded)
- V. **Electronic cigarette liquid substances propylene glycol and vegetable glycerin induce an inflammatory response in gingival epithelial cells**  
Beklen A., Uckan D.  
HUMAN & EXPERIMENTAL TOXICOLOGY, vol.40, no.1, pp.25-34, 2021 (SCI-Expanded)
- VI. **Aggregatibacter actinomycetemcomitans Biofilm Reduces Gingival Epithelial Cell Keratin Expression in an Organotypic Gingival Tissue Culture Model**  
Beklen A., Torittu A., Ihalin R., Poellaenen M.  
PATHOGENS, vol.8, no.4, 2019 (SCI-Expanded)
- VII. **The effect of smoking on the marginal bone loss around implant-supported prostheses**  
Mumcu E., Beklen A.  
TOBACCO INDUCED DISEASES, vol.17, 2019 (SCI-Expanded)
- VIII. **Impact of smoking on marginal bone loss in implant supported removable prosthesis**  
Mumcu E., Beklen A.  
TOBACCO INDUCED DISEASES, vol.16, pp.20, 2018 (SCI-Expanded)
- IX. **Effects of IL-13 on TGF-beta and MMP-1 in periodontitis**  
Beklen A.  
BIOTECHNIC & HISTOCHEMISTRY, vol.92, no.5, pp.374-380, 2017 (SCI-Expanded)
- X. **A novel intrinsically disordered outer membrane lipoprotein of Aggregatibacter actinomycetemcomitans binds various cytokines and plays a role in biofilm response to interleukin-1 beta and interleukin-8**  
Ahlstrand T., Tuominen H., Beklen A., Torittu A., Oscarsson J., Sormunen R., Pollanen M. T., Permi P., Ihalin R.  
VIRULENCE, vol.8, no.2, pp.115-134, 2017 (SCI-Expanded)
- XI. **Expression of cathepsin K in periodontitis and in gingival fibroblasts.**

- Beklen A., Al-Samadi A., Konttinen Y. T.  
Oral diseases, vol.21, no.2, pp.163-9, 2015 (SCI-Expanded)
- XII. **Interleukin-1 superfamily member, interleukin-33, in periodontal diseases.**  
Beklen A., Memet G. T.  
Biotechnic & histochemistry : official publication of the Biological Stain Commission, vol.89, no.3, pp.209-14, 2014 (SCI-Expanded)
- XIII. **Toll-like receptors 2 and 5 in human gingival epithelial cells co-operate with T-cell cytokine interleukin-17**  
Beklen A., Sorsa T., Konttinen Y. T.  
ORAL MICROBIOLOGY AND IMMUNOLOGY, vol.24, no.1, pp.38-42, 2009 (SCI-Expanded)
- XIV. **Immunohistochemical localization of Toll-like receptors 1-10 in periodontitis**  
Beklen A., Hukkanen M., Richardson R., Konttinen Y. T.  
ORAL MICROBIOLOGY AND IMMUNOLOGY, vol.23, no.5, pp.425-431, 2008 (SCI-Expanded)
- XV. **Chronic sinusitis associated with the use of unrecognized bone substitute: a case report.**  
Beklen A., Pihakari A., Rautemaa R., Hietanen J., Ali A., Konttinen Y. T.  
Quintessence international (Berlin, Germany : 1985), vol.39, pp.401-5, 2008 (SCI-Expanded)
- XVI. **Type IV collagen alpha-chain composition in synovial lining from trauma patients and patients with rheumatoid arthritis**  
Poduval P., Sillat T., Beklen A., Kouri V. P., Virtanen I., Konttinen Y. T.  
ARTHRITIS AND RHEUMATISM, vol.56, no.12, pp.3959-3967, 2007 (SCI-Expanded)
- XVII. **A possible CD1a Langerhans cell-mast cell interaction in chronic hyperplastic candidosis**  
Ali A., Rautemaa R., Hietanen J., Beklen A., Konttinen Y.  
JOURNAL OF ORAL PATHOLOGY & MEDICINE, vol.36, no.6, pp.329-336, 2007 (SCI-Expanded)
- XVIII. **MMPs, IL-1, and TNF are regulated by IL-17 in periodontitis**  
Beklen A., Ainola M., Hukkanen M., Gurgan C., Sorsa T., Konttinen Y. T.  
JOURNAL OF DENTAL RESEARCH, vol.86, no.4, pp.347-351, 2007 (SCI-Expanded)
- XIX. **Effects of two multi-step self-etch primer/adhesives on apoptosis in human gingival fibroblasts in vitro**  
Gurpinar O. A., Beklen A., Hukkanen M., Cehreli Z. C., Onur M. A., Konttinen Y. T.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, no.2, pp.435-440, 2006 (SCI-Expanded)
- XX. **Collagenases in gingival crevicular fluid in type 1 diabetes mellitus**  
Safkan-Seppala B., Sorsa T., Tervahartiala T., Beklen A., Konttinen Y. T.  
JOURNAL OF PERIODONTOLOGY, vol.77, no.2, pp.189-194, 2006 (SCI-Expanded)
- XXI. **Gingival tissue and crevicular fluid co-operation in adult periodontitis**  
Beklen A., Tuter G., Sorsa T., Hanemaaijer R., Virtanen I., Tervahartiala T., Konttinen Y.  
JOURNAL OF DENTAL RESEARCH, vol.85, no.1, pp.59-63, 2006 (SCI-Expanded)
- XXII. **Role of TNF-alpha and its receptors in pericoronitis**  
Beklen A., Laine M., Venta I., Hyrkas T., Konttinen Y.  
JOURNAL OF DENTAL RESEARCH, vol.84, no.12, pp.1178-1182, 2005 (SCI-Expanded)
- XXIII. **The microenvironment around total hip replacement prostheses**  
Konttinen Y., Zhao D., Beklen A., Ma G., Takagi M., Kivela-Rajamaki M., Ashammakhi N., Santavirta S.  
CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, no.430, pp.28-38, 2005 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Role of Electronic Cigarette on Periodontal Diseases**  
BEKLEN A.  
ADDICTA-THE TURKISH JOURNAL ON ADDICTIONS, vol.6, no.4, pp.348-358, 2019 (ESCI)
- II. **The rate of tobacco smoking among dental school students in Turkey**

GÜRLEK Ö., BAŞER Ü., BEKLEN A., GÜNCÜ G. N., HAKKI S., HAYTAÇ M. C., KURU L., LÜTFİOĞLU M., MERİÇ P., OLGUN H. E., et al.  
Ege Üniversitesi Diş Hekimliği Fakültesi, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. İkinci Basamak İmplant Cerrahisi

DEMİREL K., KESKİNER İ., BEKLEN A., GÖKMENOĞLU C., GÜZELDEMİR AKÇAKANAT E., GÜNCÜ M. B., GÜNCÜ G. N., HAYTAÇ M. C., İNANÇ B., KASNAK G., et al.

in: Estetik Bölgede İmplant Uygulamaları, Prof.Dr. Korkud Demirel, Editor, Quintessence Publishing, pp.593-616, 2018

### II. Radyasyondan Korunma, Sistemik Hastalıklar, Ağız Patolojileri, Muayene-Teşhis ve Tedavi Planının Hazırlanması, Radyolojik İşlemler, Özel Durumu Olan Hastalara Yaklaşım

Kılıçarslan M. A., Yazıcıoğlu D., Yeşilova E., Yaman B. C., Dağsuyu İ. M., Tüloğlu N., Beklen A., Mumcu E.

in: Dört Elli Diş Hekimliğinde Yardımcı Personel ve Klinik Yöntemi, Mehmet Ali Kılıçarslan, Editor, Palme Yayın Dağıtım, Ankara, pp.32-351, 2013

## Refereed Congress / Symposium Publications in Proceedings

### I. AN ALTERNATIVE THERAPHY FROM GREEN TEA IN PERIODONTAL DISEASE

BEKLEN A.

Uluslararası 4. Tıbbi ve Aromatik Bitkiler Sempozyumu, 2 - 04 October 2018

### II. The common mistakes of dentists and risk management

BEKLEN A.

9th International Congress on Healthcare Management, 19 - 22 December 2018

### III. 'Multidisciplinary Approach to the Treatment of Extensive Periapical Lesions

YILDIRIM B. G., Mimaroglu M., Mobaraki B., BEKLEN A.

24th TDA International Dental Congress, 27 - 30 September 2018

### IV. 'Regeneration Treatment with T-PRF: Case Report'

YILDIRIM B. G., mobaraki b., BEKLEN A.

FDI 2018 World Dental Congress, Buenos Aires / Argentina, 5 - 08 August 2018

### V. Oral Hygiene Practices In Patients With Rheumatoid Arthritis'

YILDIRIM B. G., BEKLEN A.

23rd Congress of the Balkan Stomatological Society, 10 - 12 May 2018

### VI. Inhibition of cathepsinK

BEKLEN A.

3rd world congress on dental and oral health, 24 - 25 August 2017

### VII. In vitro effect of smokeless tobacco on gingival epithelial cells

BEKLEN A., Dirihan r., Mutluay A.

European Network for Smoking and tobacco prevention, 24 - 26 May 2017

### VIII. Possible use of epigallocatechin-3-gallate from green tea as prevention of periodontal disease.

BEKLEN A.

1st international congress on medical and aromatic plants, 9 - 12 May 2017

### IX. Cathepsin K in Periodontitis

BEKLEN A.

2nd World Congress on Dental Research, 14 - 16 December 2016

### X. IL13 mediated response in periodontal disease

BEKLEN A., Fatma B., Arik D.

International Finnish Dental Meeting, 24 - 26 November 2015

- XI. **İkinci El Sigara İçiminin Periodontitise Etkisi**  
BEKLEN A.  
Turk periodontoloji Dernegi, Turkey, 12 - 14 November 2015
- XII. **Interleukin 13 Mediated Response in Periodontitis**  
BEKLEN TANZER A., Boke F., Arik D.  
93rd General Session Exhibition of the IADR, Boston 2015, 11 - 14 March 2015
- XIII. **Aa biofilm decreases keratin 19 expression in an oral mucosa culture model**  
BEKLEN A., Ahlstrand T., İhali R., Pallonen M.  
Europerio, 3 - 06 July 2015
- XIV. **Periodontal disease of secondhand smoking patients**  
BEKLEN TANZER A., Uckan D., Tsaous Memet G.  
11th Annual conference of the International Society for the Prevention of Tobacco Induced Diseases, ISPTID, Atina, 2014, 9 - 11 December 2013
- XV. **Role of IL 33 in Gingival Fibroblasts**  
BEKLEN TANZER A., Tsaous Memet G.  
FDI, Istanbul, 2013, 28 - 31 August 2013
- XVI. **The Role of Salivary Bacteria at Diabetes Management**  
Cinar B., BEKLEN TANZER A., Oktay I., Schou L.  
FDI, Istanbul, 2013, 28 - 31 August 2013
- XVII. **TLR2 in Periodontitis**  
BEKLEN TANZER A.  
Türk Periodontoloji Derneği, Ankara, 2009, Turkey, 01 January 2009
- XVIII. **Immunohistochemical localization of toll like receptors**  
BEKLEN TANZER A.  
30th Asia Pacific Dental Congress, Bangkok, 2008, 6 - 10 May 2008
- XIX. **Role of TLRs on Epithelial Cells after Stimulation with IL 17**  
BEKLEN TANZER A.  
American Microbiology Society, San Diego, 2008, 01 January 2008
- XX. **Toll like receptors in periodontitis**  
BEKLEN TANZER A., Richardson R., Konttinen Y.  
42nd Annual IADR-CED ID Meeting, Selanik, 2007, 26 - 29 September 2007
- XXI. **MMP 1 and 3 are regulated by IL 1beta TNF alpha and IL 17**  
BEKLEN TANZER A.  
29th Asia Pacific Dental Congress, Jakarta, 2007, 26 - 28 May 2007

## Supported Projects

BEKLEN A., Project Supported by Higher Education Institutions, Eskişehir İlindeki Diyabet ve Hipertansiyon Tanılı Hastaların, Sigara İçme Alışkanlığının Dış Fırçalama Sıklığı ve İnteraoral Periodontal Şikayetlere Etkisinin Değerlendirilmesi: 5 Yıllık Retrospektif Kesitsel Çalışma, 2020 - 2021

## Metrics

Publication: 58

Citation (WoS): 525

Citation (Scopus): 573

H-Index (WoS): 10

H-Index (Scopus): 10

## **Non Academic Experience**

Helsinki Universitesi

Helsinki Üniversitesi

Turku Üniversitesi

Turku Üniversitesi

Turku Universitesi

Boğaziçi Üniversitesi