

## Doç. Dr. BERDAN AYDIN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAS-1902-2020

Yoksis Araştırmacı ID: 238835

### Eğitim Bilgileri

Doktora, Ege Üniversitesi, Türkiye 2001 - 2007

Lisans, Ege Üniversitesi, Türkiye 1996 - 2001

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, RACKODS , College of Dental Sciences, 2019 - 2020

Dr. Öğr. Üyesi, University of Illinois at Chicago, College of Dentistry, 2015 - 2017

Öğretim Görevlisi Dr., University of Illinois at Chicago, College of Dentistry, 2010 - 2012

Araştırma Görevlisi, University of Illinois at Chicago, Faculty of Science, Biyoanalitik Kimya, 2007 - 2010

### Verdiği Dersler

ENDODONTİ 2.sınıf, Lisans, 2022 - 2023

yüksek lisans, Yüksek Lisans, 2022 - 2023

applied biostatistics, Lisans, 2019 - 2020

GERİATRİK ENDODONTİ 5. SINIF, Lisans, 2019 - 2020

### Jüri Üyelikleri

Tez Savunma (Tıpta Uzmanlık), Tez Savunma (Tıpta Uzmanlık), Aydın Adnan Menderes Üniversitesi, Ağustos, 2024

Tez Savunma (Tıpta Uzmanlık), Tez Savunma (Tıpta Uzmanlık), Aydın Adnan Menderes Üniversitesi, Ocak, 2024

Tez Savunma (Tıpta Uzmanlık), Tez Savunma (Tıpta Uzmanlık), Aydın Adnan Menderes Üniversitesi, Ekim, 2023

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. The incidence and intensity of postoperative pain and Flare-up following the use of three different

**intracanal medicaments in teeth with posttreatment apical periodontitis: a randomized clinical trial**

Angin A. E., Özkan H. D., Saral İ. P., AYDIN B.

Clinical Oral Investigations, cilt.28, sa.7, 2024 (SCI-Expanded)

- II. **In vitro Study of the Role of Human Neutrophil Enzymes on Root Caries Progression**  
Zamperini C. A., Aydin B., Sroussi H. Y., Bedran-Russo A. K.  
CARIES RESEARCH, cilt.55, sa.2, ss.99-107, 2021 (SCI-Expanded)
- III. **Dimeric Proanthocyanidins on the Stability of Dentin and Adhesive Biointerfaces**  
Leme-Kraus A. A., Phansalkar R. S., dos Reis M. C., Aydin B., Sousa A. B. S., Alania Y., McAlpine J., Chen S. N., Pauli G. F., Bedran-Russo A. K.  
JOURNAL OF DENTAL RESEARCH, cilt.99, sa.2, ss.175-181, 2020 (SCI-Expanded)
- IV. **Evidence to the role of interflavan linkages and galloylation of proanthocyanidins at sustaining long-term dentin biomodification**  
Aydin B., Leme-Kraus A. A., Vidal C. M. P., Aguiar T. R., Phansalkar R. S., Nam J., McAlpine J. B., Chen S., Pauli G. F., Bedran-Russo A. K.  
DENTAL MATERIALS, cilt.35, sa.2, ss.328-334, 2019 (SCI-Expanded)
- V. **Long-term evaluation of the stability of dentin matrix following treatments with aqueous solutions of titanium tetrafluoride at different concentrations**  
Bridi E. C., Leme-Kraus A. A., Aydin B., Basting R. T., Bedran-Russo A. K.  
ARCHIVES OF ORAL BIOLOGY, cilt.91, ss.51-56, 2018 (SCI-Expanded)
- VI. **Centrifugal partition chromatography enables selective enrichment of trimeric and tetrameric proanthocyanidins for biomaterial development**  
Phansalkar R. S., Nam J., Chen S., McAlpine J. B., Leme A. A., Aydin B., Bedran-Russo A., Pauli G. F.  
JOURNAL OF CHROMATOGRAPHY A, cilt.1535, ss.55-62, 2018 (SCI-Expanded)
- VII. **The effect of ultrasonically activated irrigation and laser based root canal irrigation methods on debris removal**  
Kamaci A., Aydin B., Erdilek N.  
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, cilt.41, sa.2, ss.71-75, 2018 (SCI-Expanded)
- VIII. **Encapsulation of grape seed extract in polylactide microcapsules for sustained bioactivity and time-dependent release in dental material applications**  
Yourdkhani M., Leme-Kraus A. A., Aydin B., Bedran-Russo A. K., White S. R.  
DENTAL MATERIALS, cilt.33, sa.6, ss.630-636, 2017 (SCI-Expanded)
- IX. **Biostability of the Proanthocyanidins-Dentin Complex and Adhesion Studies**  
Leme-Kraus A. A., Aydin B., Vidal C. M. P., Phansalkar R. M., Nam J. W., McAlpine J., Pauli G. F., Chen S., Bedran-Russo A. K.  
JOURNAL OF DENTAL RESEARCH, cilt.96, sa.4, ss.430-436, 2017 (SCI-Expanded)
- X. **Collagen-collagen interactions mediated by plant-derived proanthocyanidins: A spectroscopic and atomic force microscopy study**  
Vidal C. M. P., Zhu W., Manohar S., Aydin B., Keiderling T. A., Messersmith P. B., Bedran-Russo A. K.  
ACTA BIOMATERIALIA, cilt.41, ss.110-118, 2016 (SCI-Expanded)
- XI. **Assessing Collagen and Micro-permeability at the Proanthocyanidin-treated Resin-Dentin Interface**  
Aydin B., Hassan L. S., Viana G., Bedran-Russo A. K.  
JOURNAL OF ADHESIVE DENTISTRY, cilt.18, sa.6, ss.529-534, 2016 (SCI-Expanded)
- XII. **Time-dependent effectiveness of the intracanal medicaments used for pulp revascularization on the dislocation resistance of MTA**  
Turk T., Ozisik B., Aydin B.  
BMC ORAL HEALTH, cilt.15, 2015 (SCI-Expanded)
- XIII. **Quantification of Antibiotic in Biofilm-Inhibiting Multilayers by 7.87 eV Laser Desorption Postionization MS Imaging**  
Blaze M. M. T., Akhmetov A., Aydin B., Edirisinghe P. D., Uygur G., Hanley L.  
ANALYTICAL CHEMISTRY, cilt.84, sa.21, ss.9410-9415, 2012 (SCI-Expanded)
- XIV. **Identification and imaging of peptides and proteins on Enterococcus faecalis biofilms by matrix**

#### **assisted laser desorption ionization mass spectrometry**

Blaze M. M. T., Aydın B., Carlson R. P., Hanley L.

ANALYST, cilt.137, sa.21, ss.5018-5025, 2012 (SCI-Expanded)

#### **XV. Antibacterial activity of dental composites containing zinc oxide nanoparticles**

Sevinc B., Hanley L.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, cilt.94B, sa.1, ss.22-31, 2010 (SCI-Expanded)

#### **XVI. Apical microleakage of root-end cavities prepared by Er, Cr: YSGG laser**

Caliskan M. K., Parlar N. K., Orucoglu H., Aydın B.

LASERS IN MEDICAL SCIENCE, cilt.25, sa.1, ss.145-150, 2010 (SCI-Expanded)

#### **XVII. Effectiveness of HERO 642 versus Hedstrom files for removing gutta-percha fillings in curved root canals: an ex vivo study**

Aydın B., Kose T., Caliskan M. K.

INTERNATIONAL ENDODONTIC JOURNAL, cilt.42, sa.11, ss.1050-1056, 2009 (SCI-Expanded)

#### **XVIII. The effect of spreader size on fracture resistance of maxillary incisor roots**

Piskin B., Aydın B., Sarikanat M.

INTERNATIONAL ENDODONTIC JOURNAL, cilt.41, sa.1, ss.54-59, 2008 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

#### **I. Evaluation of different irrigation techniques on dentin erosion and smear layer removal: A scanning electron microscopy study**

Akçay A., Görduysus M., Aydın B., Görduysus M. Ö.

JOURNAL OF CONSERVATIVE DENTISTRY, sa.3, ss.311-316, 2022 (Scopus)

#### **II. Oligomeric proanthocyanidins inhibit endogenous enzymatic activity of deciduous carious dentin**

Aydın B., Compton A., Phansalkar R. S., Chen S., Pauli G. F., Bedran-Russo A. K.

Pediatric Dental Journal, cilt.31, sa.1, ss.73-79, 2021 (ESCI)

#### **III. Detection of Gelatinolytic Activity in Deciduous Sound Dentin**

AYDIN B.

Ege Üniversitesi Diş Hekimliği Fakültesi, cilt.41, sa.1, ss.55-60, 2020 (Hakemli Dergi)

#### **IV. Effect of storage solutions on microhardness of crown enamel and dentin**

Aydın B., Pamir T., Baltacı A., Orman M. N., Turk T.

European Journal of Dentistry, cilt.9, sa.2, ss.262-266, 2015 (Scopus)

#### **V. Effect of spreader size on microleakage of roots filled with cold lateral compaction technique**

Turk T., Piskin B., Orucoglu H., Aydın B.

European Journal of Dentistry, cilt.9, sa.3, ss.378-381, 2015 (Scopus)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

#### **I. Fizik Tedavi ve Rehabilitasyon Öğrencilerinin Dental Anksiyete Seviyelerinin Belirlenmesi**

Güvenç P., Bulut G. F., Uzun Saylan B. C., Aydın B., Erten Can S. H.

DEU Diş Hekimliği Fakültesi Diş Hekimliği Eğitimi Uluslararası Kongresi, İzmir, Türkiye, 3 - 04 Haziran 2022, ss.39-40

### **Desteklenen Projeler**

Aydın B., Bedran Russo A. K., Diğer Uluslararası Fon Programları, Biomodification of Dentin Matrix Structure, 2011 - 2017

Aydın B., Hanley L., Diğer Uluslararası Fon Programları, Novel Chemical Analyses of the Biofilm-Biomaterial Interface, 2007 - 2012

## **Akademik Dolaşım Faaliyetleri**

Diğer, Diğer, Aydın Adnan Menderes Üniversitesi, Türkiye, 2023 - 2023

Diğer, Doktora Sonrası Araştırma, Aydın Adnan Menderes Üniversitesi, Türkiye, 2022 - 2022

## **Metrikler**

Yayın: 26

Atıf (WoS): 520

Atıf (Scopus): 76

H-İndeks (WoS): 10

H-İndeks (Scopus): 1

## **Akademi Dışı Deneyim**

Ada Dis Polikliniği