

## Prof. SEDAT ODABAŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-7813-2020

ScopusID: 35082448000

Yoksis Researcher ID: 122837

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), Turkey 2006 - 2011

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), Turkey 2004 - 2006

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 2000 - 2004

### Dissertations

Doctorate, Kıkırdak doku oluşumunda yeni doku mühendisliği stratejilerinin geliştirilmesi, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), 2011

Postgraduate, Mezenkimal kök hücre saflaştırması için manyetik yüklü nanosorbentlerin üretimi, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), 2006

### Research Areas

Biomedical Engineering, Tissue Engineering, Stem Cell Engineering, Biomaterials

### Academic Titles / Tasks

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2017 - Continues

### Academic and Administrative Experience

Performans Değerlendirme Komisyonu Üyesi, Ankara University, Fen Bilimleri Enstitüsü, 2022 - Continues

Member of Department FEDEK Commission, Ankara University, Fen Fakültesi, Kimya Bölümü, 2017 - 2021  
Ankara University, 2017 - 2020

Unit Accreditation Board Member, Ankara University, Fen Fakültesi, Kimya Bölümü, 2015 - 2018

Süreç Sorumlusu, Ankara University, Kök Hücre Enstitüsü, 2014 - 2016

## Courses

ÖZEL KONU, Undergraduate, 2022 - 2023, 2020 - 2021, 2014 - 2015  
BIOCHEMISTRY LAB., Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019  
General Chemistry, Undergraduate, 2023 - 2024  
BIOCOMPATIBILITY, Undergraduate, 2022 - 2023  
Cytology for Chemists, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Doku Biyokimyası, Postgraduate, 2022 - 2023, 2017 - 2018, 2015 - 2016  
KİMYACILAR İÇİN HÜCREBİLİM, Undergraduate, 2023 - 2024, 2022 - 2023, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
TEMEL KİMYA - I BİYOLOJİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
BİYOPOLİMERLER, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
TEMEL KİMYA - II BİYOLOJİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
BIOCHEMISTRY - II, Undergraduate, 2018 - 2019  
BIOCHEMISTRY - I, Undergraduate, 2018 - 2019  
TEMEL KİMYA - ZİRAAT FAKÜLTESİ -TYS, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
TEMEL KİMYA - ÇOCUK GELİŞİMİ, Undergraduate, 2016 - 2017, 2015 - 2016  
TEMEL KİMYA - ZİRAAT FAKÜLTESİ - TE, Undergraduate, 2017 - 2018  
Analitik Biyokimya Laboratuvarı, Undergraduate, 2015 - 2016  
BİYOKİMYA LABORATUVARI, Undergraduate, 2015 - 2016

## Advising Theses

Odabaş S., Hüresizleştirilmiş deri doku katkı polikaprolakton (pcl) doku iskelelerinin eriyik elektroyazım (MEW) yöntemi ile hazırlanması ve doku mühendisliğinde kullanım potansiyelinin incelenmesi, Postgraduate, M.İPEK(Student), 2023  
Odabaş S., Kemik yüzey taklitli metakrilatlanmış hidrojenlerin osteoblast hücre davranışları üzerinde etkisinin incelenmesi, Postgraduate, S.KOCACIK(Student), 2023  
ODABAŞ S., Eksozom İçeren Manyetik Doku İskelelerinde Osteojenik Farklaşmanın Ayrıntılı Değerlendirilmesi, Postgraduate, R.KSOURI(Student), 2021  
ODABAŞ S., Stronsiyum-nano zeolit A ile desenlenmiş üç boyut baskılı poli(laktik asit) kemik doku iskelelerinin geliştirilmesi, Postgraduate, G.TİRYAKİ(Student), 2020  
ODABAŞ S., The Effect of Bone Surface Mimicked Magnetic Particle Embedded PDMS Membranes on Human Osteoblast Cell Behavior, Postgraduate, B.ERENAY(Student), 2019

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, August, 2014

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

- I. **Effects of bone surface topography and chemistry on macrophage polarization**  
Özcolak B., Erenay B., ODABAŞ S., Jandt K. D., Garipcan B.  
Scientific reports, vol.14, no.1, pp.12721, 2024 (SCI-Expanded)
- II. **Morphology of Nanostructured Tantalum Oxide Controls Stem Cell Differentiation and Improves**

## **Corrosion Behavior**

ERDOĞAN Y. K., Uslu E., AYDINOL M. K., YAR SAĞLAM A. S., ODABAŞ S., ERCAN B.

ACS Biomaterials Science and Engineering, vol.10, no.1, pp.377-390, 2024 (SCI-Expanded)

- III. **Human periodontal ligament stem cells-derived exosomes-loaded hybrid hydrogel enhances the calvarial defect regeneration in middle-age rats**  
Isik M., VARGEL İ., ÖZGÜR E., Cam S. B., KORKUSUZ P., EMREGÜL E., ODABAŞ S., DERKUŞ B.  
Materials Today Communications, vol.36, 2023 (SCI-Expanded)
- IV. **Scaffold fabrication from drug loaded HNT reinforced polylactic acid by FDM for biomedical applications**  
Kökcü İ., Eryildiz M., ALTAN M., Ertuğrul M. İ., ODABAŞ S.  
Polymer Composites, vol.44, no.4, pp.2138-2152, 2023 (SCI-Expanded)
- V. **Plant-derived biomaterials and scaffolds**  
Toker-Bayraktar M., Erenay B., Altun B., ODABAŞ S., Garipcan B.  
Cellulose, vol.30, no.5, pp.2731-2751, 2023 (SCI-Expanded)
- VI. **Emerging applications of 3D engineered constructs from plant seed extracts**  
ODABAŞ S., Garipcan B., Ksouri R.  
Turkish Journal of Biology, vol.47, no.2, pp.94-108, 2023 (SCI-Expanded)
- VII. **Anisotropic Bone Surface Topography Mimicked Chitosan/Graphene Oxide Membranes**  
Puza F., Rostami S., Ozcolak-Aslan B., ODABAŞ S., Jandt K. D., GARİPCAN B.  
ADVANCED ENGINEERING MATERIALS, vol.25, no.1, 2023 (SCI-Expanded)
- VIII. **Decellularized Bone Extracellular Matrix-Coated Electrospun PBAT Microfibrous Membranes with Cell Instructive Ability and Improved Bone Tissue Forming Capacity**  
Karakaya E., ERDOĞAN Y. K., Arslan T. S., ARSLAN Y. E., ODABAŞ S., ERCAN B., EMREGÜL E., DERKUŞ B.  
MACROMOLECULAR BIOSCIENCE, vol.22, no.12, 2022 (SCI-Expanded)
- IX. **Bone surface mimicked PDMS membranes stimulate osteoblasts and calcification of bone matrix**  
Erenay B., Yar Sağlam A. S., Garipcan B., Jandt K. D., Odabaş S.  
BIOMATERIALS ADVANCES, vol.142, 2022 (SCI-Expanded)
- X. **Hollow microneedle array fabrication using a rational design to prevent skin clogging in transdermal drug delivery**  
Unver N., ODABAŞ S., DEMİREL G., GÜL O. T.  
JOURNAL OF MATERIALS CHEMISTRY B, vol.10, no.41, pp.8419-8431, 2022 (SCI-Expanded)
- XI. **Improvement of Mechanical and Biological Properties of PLA/HNT Scaffolds Fabricated by Foam Injection Molding: Skin Layer Effect and Laser Texturing**  
Eryildiz M., ALTAN M., ODABAŞ S.  
International Polymer Processing, vol.36, no.5, pp.564-576, 2021 (SCI-Expanded)
- XII. **Fabrication of homogeneous magnetic PDMS membranes to mediate cell behavior**  
Erenay B., GARİPCAN B., ODABAŞ S.  
SURFACE INNOVATIONS, vol.9, no.5, pp.267-276, 2021 (SCI-Expanded)
- XIII. **Injectable and Self-Healable pH-Responsive Gelatin-PEG/Laponite Hybrid Hydrogels as Long-Acting Implants for Local Cancer Treatment**  
Cimen Z., Babadag S., ODABAŞ S., Altuntas S., DEMİREL G., Demirel G. B.  
ACS APPLIED POLYMER MATERIALS, vol.3, no.7, pp.3504-3518, 2021 (SCI-Expanded)
- XIV. **Plant-Based Scaffolds in Tissue Engineering**  
Bilirgen A. C., Toker M., ODABAŞ S., Yetisen A. K., GARİPCAN B., Tasoglu S.  
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.7, no.3, pp.926-938, 2021 (SCI-Expanded)
- XV. **A facile surface modification of poly(dimethylsiloxane) with amino acid conjugated self-assembled monolayers for enhanced osteoblast cell behavior**  
Ozturk-Oncel M. O., ODABAŞ S., UZUN L., Hur D., GARİPCAN B.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.196, 2020 (SCI-Expanded)
- XVI. **Decellularization and characterization of leek: a potential cellulose-based biomaterial**  
Toker M., Rostami S., Kesici M., GÜL Ö., KOCATÜRK Ö., ODABAŞ S., GARİPCAN B.

- CELLULOSE, vol.27, no.13, pp.7331-7348, 2020 (SCI-Expanded)
- XVII. **Development of metformin chain extended polyurethane elastomers as bone regenerative films**  
Yagci B. S., ODABAŞ S., AKSOY E. A.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.131, pp.84-92, 2019 (SCI-Expanded)
- XVIII. **Preparation of MC3T3-E1 cell sheets through short-term osteogenic medium application**  
Tevlek A., ODABAŞ S., Celik E., AYDIN H. M.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, pp.1145-1153, 2018 (SCI-Expanded)
- XIX. **Cranial bone regeneration via BMP-2 encoding mesenchymal stem cells**  
Vural A. C., ODABAŞ S., KORKUSUZ P., YAR SAĞLAM A. S., BİLGİÇ E., ÇAVUŞOĞLU T., Piskin E., VARGEL İ.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.45, no.3, pp.544-550, 2017 (SCI-Expanded)
- XX. **Collagen-carboxymethyl cellulose-tricalcium phosphate multi-lamellar cryogels for tissue engineering applications: Production and characterization**  
ODABAŞ S.  
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.31, no.4, pp.411-422, 2016 (SCI-Expanded)
- XXI. **Clinical applications of decellularized extracellular matrices for tissue engineering and regenerative medicine**  
Parmaksız M., Dogan A., Odabaş S., Elçin A. E., Elçin Y. M.  
BIOMEDICAL MATERIALS, vol.11, no.2, 2016 (SCI-Expanded)
- XXII. **Gelatin-Hydroxyapatite Cryogels with Bone Morphogenetic Protein-2 and Transforming Growth Factor Beta-1 for Calvarial Defects**  
Inci I., ODABAŞ S., VARGEL İ., Guzel E., KORKUSUZ P., Cavusoglu T., Kirsebom H., ÇELİK H. H., DEMİRKAZIK F., Mattiasson B., et al.  
JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING, vol.4, no.8, pp.624-631, 2014 (SCI-Expanded)
- XXIII. **Isolation and Characterization of Mesenchymal Stem Cells**  
Odabaş S., Elçin A. E., Elçin Y. M.  
BONE MARROW AND STEM CELL TRANSPLANTATION, 2ND EDITION, vol.1109, pp.47-63, 2014 (SCI-Expanded)
- XXIV. **Auricular cartilage repair using cryogel scaffolds loaded with BMP-7-expressing primary chondrocytes**  
ODABAŞ S., Feichtinger G. A., Korkusuz P., Inci I., Bilgic E., YAR SAĞLAM A. S., Cavusoglu T., Menevse S., Vargel I., Piskin E.  
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.7, no.10, pp.831-840, 2013 (SCI-Expanded)
- XXV. **Macroporous silicone biomaterials with modified surface chemistry: Production and characterization**  
Gencer Z. A., ODABAŞ S., TÜRKOĞLU ŞAŞMAZEL H., Piskin E.  
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.27, no.5, pp.419-428, 2012 (SCI-Expanded)
- XXVI. **BMP-7 expressing genetically modified primary chondrocytes in cryogel scaffolds for rabbit auricular cartilage repair**  
ODABAŞ S., Feichtinger G., Korkusuz P., Inci I., Bilgic E., Yar A. S., Cavusoglu T., Menevse S., Vargel I., Piskin E.  
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.6, pp.67, 2012 (SCI-Expanded)
- XXVII. **A PRACTICAL METHODOLOGY FOR IgG PURIFICATION VIA CHITOSAN BASED MAGNETIC NANOPARTICLES**  
Kavaz D., ODABAŞ S., DENKBAŞ E. B., Vaseashta A.  
DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, vol.7, no.3, pp.1165-1177, 2012 (SCI-Expanded)
- XXVIII. **In Vitro Biocompatibility of n-Type and Undoped Silicon Nanowires**  
Garipcan B., ODABAŞ S., Demirel G., Burger J., Nonnenmann S. S., Coster M. T., Gallo E. M., Nabet B., Spanier J. E., Piskin E.  
ADVANCED ENGINEERING MATERIALS, vol.13, no.1-2, 2011 (SCI-Expanded)
- XXIX. **Bleomycin Loaded Magnetic Chitosan Nanoparticles as Multifunctional Nanocarriers**  
Kavaz D., ODABAŞ S., GÜVEN E., DEMİRBİLEK M., DENKBAŞ E. B.  
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.25, no.3, pp.305-318, 2010 (SCI-Expanded)

- XXX. **Separation of mesenchymal stem cells with magnetic nanosorbents carrying CD105 and CD73 antibodies in flow-through and batch systems**  
ODABAŞ S., Sayar F., Guven G., Yanikkaya-Demirel G., Piskin E.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES,  
vol.861, no.1, pp.74-80, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Exosome loaded 3D printed magnetic PLA constructs: a candidate for bone tissue engineering**  
Ksouri R., ODABAŞ S., YAR SAĞLAM A. S.  
Progress in Additive Manufacturing, vol.10, no.1, pp.247-260, 2025 (ESCI)
- II. **Development of 3D Printed Scaffolds Containing Decellularized Plants and Investigation of Their Basic Cell Interactions**  
Odabaş S., Ertuğrul M. İ., Özdemir F., Çakmak Z. E., Çakıcı S., Konaklı Ş. K., Kılıç M.  
Hacettepe Journal of Biology and Chemistry, vol.52, no.6, pp.389-404, 2024 (Peer-Reviewed Journal)
- III. **Advancing bone biomaterial design: exploring outer microtopography and multi-BSTM membrane production from a single bone source**  
Özçolak B., Demir Ö., Perver D., Rostami S., Puza F., ODABAŞ S., Garipcan B.  
Emergent Materials, 2024 (ESCI)
- IV. **A typical method for decellularization of plants as biomaterials**  
Toker-Bayraktar M., Ertugrul M. İ., ODABAŞ S., Garipcan B.  
MethodsX, vol.11, 2023 (ESCI)
- V. **Fast and versatile electrochemical approach for soft tissue decellularization**  
Ertuğrul M. İ., GÜRBÜZ A., ESKİZENGİN H., ODABAŞ S.  
METHODSX, vol.10, 2023 (ESCI)
- VI. **Surgical method for critical sized cranial defects in rat cranium**  
ODABAŞ S., DERKUŞ B., VARGEL İ., Vural A. C.  
MethodsX, vol.10, 2023 (ESCI)
- VII. **Functional Polysaccharides Blended Collagen Cryogels**  
ODABAŞ S.  
Hacettepe Journal of Biology and Chemistry, vol.41, no.1, pp.113-120, 2018 (Peer-Reviewed Journal)
- VIII. **Gelatin Oxide Dextran Cryogels In Vitro Biocompatibility Evaluations**  
ODABAŞ S., İNCİ İ., PİŞKİN E.  
Hacettepe Journal of Biology and Chemistry, vol.40, no.4, pp.409-417, 2012 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Bölüm:10 Biyomalzemeler**  
Erkoç Biradlı F. Z., Odabaş S., Garipcan B.  
in: Biyomedikal Mühendisliğin Temelleri, İsmail Devecioğlu, Editor, Nobel Tıp Kitapevi, Ankara, pp.339-372, 2022
- II. **Mekanik İletim ve Hücrelere Etkileri**  
Odabaş S.  
in: İleri Malzemeler: Biyomalzeme ve Nanomalzeme Uygulamaları, Filiz Kuralay, Editor, Palme Yayın Dağıtım, Ankara, pp.267-279, 2018
- III. **Effects of Mechanotransduction on Stem Cell Behavior**  
BİLGİN B., ODABAŞ S.  
in: Advanced Surfaces for Stem Cell Research, Ashutosh Tiwari, Bora Garipcan, Lokman Uzun, Editor, Wiley, pp.45-65, 2016
- IV. **Isolation and characterization of mesenchymal stem cells**

## Refereed Congress / Symposium Publications in Proceedings

- I. **Decellularized Skin and its Biomedical Applications**  
Ertuğrul M. İ., Kocacık S., Vural A. C., Odabaş S.  
4th Eurasia Biochemical Approaches & Technologies (EBAT), Antalya, Turkey, 03 November 2022
- II. **Alternative Approaches to Mediate Cell Behaviour**  
Odabaş S.  
Materials Research Society Fall Meeting'21, Massachusetts, United States Of America, 30 November - 07 December 2021, pp.1195
- III. **Enhanced cellular functions on nanophase tantalum oxide surfaces**  
USLU E., ODABAŞ S., ERCAN B.  
The Scandinavian Society for Biomaterials ScSB 2021, Switzerland, 14 June 2021, vol.1, pp.7
- IV. **Design of a novel 3D combined bioactive tissue matrices for skeletal muscle tissue repair**  
RENKLER N. Z., ODABAŞ S., TUZLAĞOĞLU K.  
30th Annual Conference of the European Society for Biomaterials ESB 2019, 9 - 13 September 2019
- V. **Enhancing Collagen Scaffolds via Blending with Decellularized Plants**  
Odabaş S.  
30th Annual Conference of the European Society for Biomaterials ESB 2019, Dresden, Germany, 9 - 13 September 2019, pp.1039
- VI. **“Preparation of Magnetic Nanoparticle Embedded PDMS Membranes to Enhance Cell Metabolism”**  
Odabaş S., Erenay B., Garipcan B.  
NanoTR-14, İzmir, Turkey, 22 - 25 September 2018, pp.183
- VII. **“Magnetic stimulated cryogels to enhance stem cell differentiation”**  
Odabaş S., Tevlek A., Erenay B., Aydın H. M., Ercan B., Garipcan B., Yar Sağlam A. S.  
29th Annual Meeting of the European Society for Biomaterials (ESB-2018) , Maastricht, Netherlands, 9 - 13 September 2018, pp.937-938
- VIII. **HÜCRE-BİYOMALZEME İLİŞKİLERİNDE MEKANOTRANSDÜKTİF YAKLAŞIMLAR**  
Odabaş S., Bilgen B.  
4. Biyomalzeme Günleri, Yalova, Turkey, 19 - 20 October 2017, pp.30
- IX. **In-Vitro Evaluations of Multi-Blended Magnetic Cryogels for Bone Tissue Engineering**  
ODABAŞ S.  
ESB2017, 4 - 08 September 2017
- X. **Mekanik İletimin Hücreler Üzerindeki Etkisi**  
ODABAŞ S.  
3. Biyomalzeme Günü, Turkey, 17 - 18 November 2016
- XI. **Magneto sensitive multi blended cryogels for hard tissue engineering**  
Odabaş S.  
BIOMATERIALS FOR HEALTHCARE: Biomaterials for Tissue and Genetic Engineering and the Role of Nanotechnology, Rome, Italy, 17 - 20 October 2016
- XII. **Collagen Carboxymethyl Cellulose Tri Calcium Phosphate Multi Lamellar Cryogels for TissueEngineering Applications**  
Odabaş S.  
9. İskandinav Biyomalzeme Derneği Konferansı, Reykjavik, Iceland, 1 - 03 June 2016
- XIII. **Gen transfer to animal cells**  
Odabaş S.  
Nanobiotech 2014, Muğla, Turkey, 24 - 30 August 2014, pp.87
- XIV. **Kıvrak Doku Mühendisliğinde Temel Yaklaşımlar**

ODABAŞ S.

I. Biyomalzeme Günü, İstanbul, Turkey, 22 February 2013

**XV. In vivo cartilage tissue reconstruction with BMP 7 releasing cells**

ODABAŞ S., FEICHTINGER G. A., INCI I., BİLGİÇ E., YAR SAĞLAM A. S., KORKUSUZ P., ÇAVUŞOĞLU T., VARGEL İ., MENEVŞE E. S., REDL H., et al.

BIOMED 2011, 23 - 25 November 2011

**XVI. Molecular Evaluations**

ODABAŞ S., KORACHİ M., ÖZTÜRK K., ÖZDEN A. K.

Expertissues Training Course on Cranio-Maxillofacial Animal Models, 28 - 31 July 2010

**XVII. In vitro biocompatibility of plain and doped silicon nanowires**

ODABAŞ S., Garipcan B., Demirel G., Burger J., Nabet B., Spanier J. E., Piskin E.

Annual Tissue-Engineering-and-Regenerative-Medicine-International-Society-European-Chapter Meeting, Porto, Portugal, 01 June 2008, vol.14, pp.863-864

**XVIII. Silicon nanowires as a potential tissue support construct Part I Cytotoxicity**

ODABAŞ S., GARİPCAN B., DEMİREL G., Burger J., NABET B., SPANIER J., PISKIN E.

EMBO Young Scientist Forum, 20 - 22 February 2008

**XIX. Production of Magnetically Loaded Nanosorbents for Isolation of Mesenchymal Stem Cells**

ODABAŞ S.

ESF-EMBO Symposium: Stem Cells in Tissue Engineering, 28 October - 02 November 2006

## Supported Projects

ODABAŞ S., Project Supported by Higher Education Institutions, Üç boyutlu yazıcıda doku iskelesi üretimi için çok fonksiyonlu biyobozunur polimer kompozit filament geliştirilmesi, 2020 - Continues

Odabaş S., Derkuş B., Oto Ç., Yılgör Huri P., TUBİTAK Project, 22AG055 - Sağlıklı Yaşam İçin Yeni Nesil Biyomalzeme Teknolojileri Araştırma Ağı, 2023 - 2027

Derkuş B., Emregül E., Odabaş S., TUBİTAK Project, İnsan Periodontal Ligament Fibroblast (hPDLF) ve insan damar endotel hücresi (HUVEC) türevli eksozomlarla katılanmış enjekte edilebilir hidrojellerin geliştirilmesi, in vivo uygulamaları, 2020 - 2023

Derkuş B., Odabaş S., TUBİTAK Project, Hücreleştirilmiş Bitki İçeren 3 Boyutlu Baskılanmış Doku İskelelerinin Geliştirilmesi Ve Kıkırdak Doku Farklılaşması Üzerine Etkisinin İncelenmesi, 2021 - 2022

Tuzlakoğlu K., Odabaş S., Yılgör Huri P., TUBİTAK Project, İskelet Kas Dokusuna Özgü 3 Boyutlu Biyoaktif Kombine Doku Matrislerinin Geliştirilmesi Ve Elektriksel Stimülasyon Altında Hücre Aktiviteleri Üzerindeki Etkisinin Değerlendirilmesi, 2018 - 2021

Odabaş S., Demirel G., Gül O. T., TUBİTAK Project, Deri İçine İlaç Gönderimi Gerçekleştirecek Polimer Destekli Karbon Nanotüp Mikro İğne Dizisi Fabrikasyonu, 2018 - 2021

Odabaş S., Yar Sağlam A. S., Garipcan B., TUBİTAK Project, Kemik Doku Özgü Desenlenmiş Manyetik Stimüle Polidimetilsiloksan (Pdms) Doku Matrislerinin Geliştirilmesi Ve Etkinlik Değerlendirmeleri, 2018 - 2020

ODABAŞ S., Project Supported by Higher Education Institutions, Manyetik Elastomerik Doku İskelelerinin Hazırlanması ve Biyouyumluluklarının Belirlenmesi, 2017 - 2018

Odabaş S., Durkut S., Elçin Y. M., TUBİTAK Project, Manyetik Temelli Doku İskelelerinin Hazırlanması Ve Kök Hücre Davranışları Üzerine Mekanotransdüktif Etkilerinin Kapsamlı İncelenmesi, 2015 - 2018

ODABAŞ S., TUBİTAK - AB COST Project, Pluripotent Multipotent Ve Somatik Hücre Kültürü Temelli Ekstraselüler Matrisin Doğal Niş Olarak Ve Doku Mühendisliği İskelesinde Biyomimetik Bileşen Olarak Etkinliğinin Karşılaştırmalı İncelenmesi, 2015 - 2018

Odabaş S., Bektaş M., Akbulut H., Yılmaz Aktuna A., TUBİTAK Project, Ankara Üniversitesi Ar-Ge Strateji Belgesi (Rejeneratif ve Restoratif Tıp), 2016 - 2017

ODABAŞ S., Project Supported by Other Private Institutions, Türkiye de Biyoteknolojik Ürün Üretimi İçin Ar Ge Ve Altyapı Analizi İle Sağlık Ekonomisine Geri Dönüşümünün Belirlenmesi, 2014 - 2016

Koç Demir A., Elçin Y. M., Elçin A. E., EU Supported Other Project, 111S497, Nanoyapılı Jellerde Adipoz Mezenkimal Kök

Hücre Farklılaşmasının İncelenmesi, 2011 - 2015

ODABAŞ S., Project Supported by Higher Education Institutions, Kırkdak Doku Oluşumunda Yeni Doku Mühendisliği Stratejilerinin Geliştirilmesi, 2009 - 2011

TUBITAK Project, Manyetik Yüklü Polimerik Nanopartikül Esaslı Plazmid DNA Saflaştırma Kitlerinin Geliştirilmesi, 2007 - 2009

Odabaş S., FP6 Project, FP6 Noe EXPERTISSUES Network of Excellence on Novel Therapeutic Strategies for Tissue Engineering of Bone and Cartilage Using Second Generation Biomimetic Scaffolds, 2004 - 2009

TUBITAK Project, Biyomedikal Teknolojide Doku Mühendisliği, 2006 - 2008

ODABAŞ S., TUBITAK Project, Mezenkimal Kök Hücre Saflaştırılma ve Kültürü İçin Manyetik Yüklü Nanosorbentlerin Üretimi, 2005 - 2006

## Patent

Elçin A. E., Elçin Y. M., Odabaş S., Bir hücrelerarası matriks malzemesi., Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2014/16111 B , Standard Registration, 2018

## Activities in Scientific Journals

FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, Committee Member, 2019 - Continues

## Memberships / Tasks in Scientific Organizations

Biyomalzeme Araştırmaları Derneği, Chairman, 2022 - Continues, Turkey

The European Society for Biomaterials , Member, 2017 - 2020, France

BİYOMEDTEK Biyomedikal Teknolojiler Derneği, Principal Member, 2006 - 2013, Turkey

## Scientific Refereeing

Hacettepe Journal of Biology and Chemistry, National Scientific Refreed Journal, October 2024

Emergent Materials, SCI Journal, January 2022

TURKISH JOURNAL OF BIOLOGY, National Scientific Refreed Journal, December 2020

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, SCI Journal, May 2020

BIOMEDICAL MICRODEVICES, SCI Journal, October 2019

TURKISH JOURNAL OF BIOLOGY, National Scientific Refreed Journal, December 2017

PLOS ONE, SCI Journal, August 2017

TURKISH JOURNAL OF BIOLOGY, National Scientific Refreed Journal, March 2017

JOURNAL OF CHROMATOGRAPHY B: ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, SCI Journal, March 2016

## Scientific Consultations

Ankara Üniversitesi , Project Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2023 - Continues

Hacettepe Üniversitesi, Project Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2020 - 2022

## Scientific Research / Working Group Memberships



Biyomalzeme Ve Doku Mühendisliği Araştırma Grubu (Btelab), Ankara University, Turkey, <https://btelab.com/>, 2017 - Continues

## Metrics

Publication: 63

Citation (WoS): 542

Citation (Scopus): 735

H-Index (WoS): 12

H-Index (Scopus): 14

## Congress and Symposium Activities

Türk Toraks Derneği 26. Yıllık Kongresi, Invited Speaker, Antalya, Turkey, 2023

4.EBAT Kongresi, Attendee, Antalya, Turkey, 2022

MRS Material Research Society Fall Meeting 2021, Invited Speaker, Massachusetts, United States Of America, 2021

II. EBAT Kongresi, Invited Speaker, Antalya, Turkey, 2019

30th Annual Conference of the European Society for Biomaterials (ESB-2019) , Attendee, Dresden, Germany, 2019

5. Biyomalzeme Günleri, Invited Speaker, İstanbul, Turkey, 2018

NanoTR-14 Nanoscience and Nanotechnology Conference , Attendee, İzmir, Turkey, 2018

29th Annual Meeting of the European Society for Biomaterials (ESB-2018) , Attendee, Maastricht, Netherlands, 2018

28th Annual Meeting of the European Society for Biomaterials (ESB-2017) , Attendee, Athens, Greece, 2017

## Scholarships

Doktora Burs Programı (BİDEB), TUBITAK, 2009 - 2011

Yüksek Lisans Burs Programı (BİDEB), TUBITAK, 2004 - 2006

Temel Bilimlerde Lisans Burs Programı (BİDEB), TUBITAK, 2001 - 2004

## Awards

Odabaş S., İhsan Doğramacı Başarı Ödülü, Hacettepe Üniversitesi, June 2004