

# Prof. AYŞE ESER ELÇİN

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), Turkey 1992 - 1999

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), Turkey 1990 - 1992

Undergraduate, Ankara University, Fen Fakültesi, Biyoloji Bölümü, Turkey 1985 - 1989

## Dissertations

Doctorate, Enterobacter Aerogenes ve Plazmidlerinde pH 6-Asetolaktat Oluşturan Enzimin Rolü, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (Dr), 1999

Postgraduate, Koledok Kanalı Bağlı Tavşanların Karaciğer Hücrelerindeki İnce Yapı Değişimleri, Ankara University, Fen Bilimleri Enstitüsü, Biyoloji (YI) (Tezli), 1992

## Research Areas

Health Sciences, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Ankara University, Kök Hücre Enstitüsü, Kök Hücre ve Yenileyici Tıp Anabilim Dalı, 2013 - Continues

Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2012 - 2013

Associate Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2007 - 2012

Assistant Professor, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2002 - 2007

Research Assistant, Ankara University, Fen Fakültesi, Biyoloji Bölümü, 1991 - 1999

## Academic and Administrative Experience

Head of Department, Ankara University, Kök Hücre Enstitüsü, Kök Hücre ve Yenileyici Tıp Anabilim Dalı, 2013 - 2022

Director of the Center, Ankara University, Kök Hücre Enstitüsü, Doku ve Hücre Üretim Merkezi, 2013 - 2022

## Courses

TEMEL ARAŞTIRMA TEKNİKLERİ II (TEORİK), Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 -

2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

TEMEL ARAŞTIRMA TEKNİKLERİ II (UYGULAMA), Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MEZENKİMAL KÖK HÜCRE, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

MEZENKİMAL KÖK HÜCRE, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Öğretmenlik Uygulaması, Postgraduate, 2010 - 2011, 2009 - 2010, 2003 - 2004

Biyolojide Özel Konular, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Okul Deneyimi 2, Postgraduate, 2009 - 2010, 2005 - 2006, 2004 - 2005, 2003 - 2004

Mikrobiyoloji Laboratuvarı, Undergraduate, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2003 - 2004

Deney Tekniği Laboratuvar, Undergraduate, 2004 - 2005, 2003 - 2004

## Advising Theses

Elçin A. E., Hücre-ECM Yoğunluk Oranının Üç Boyutlu Kök Hücre Kültürlerinin Kondrojenik Farklılaşmasına Etkisinin Araştırılması, Postgraduate, S.GÖKŞEN(Student), 2023

Elçin A. E., Plazenta-Kaynaklı Mezenkimal Kök/Stromal Hücrelerin İzolasyonu, Çoğaltılması ve Biyokompozitler Üzerindeki Davranışlarının İncelenmesi, Postgraduate, M.BAŞTUĞ(Student), 2022

ELÇİN A. E., Kontrollü olarak sirkadiyen ritmi bozulan sıçanların adipoz mezenkimal kök hücrelerinin özelliklerindeki potansiyel değişimlerin incelenmesi, Postgraduate, F.ELÇİN(Student), 2020

ELÇİN A. E., 2018 biyoloji öğretim programına yönelik biyoloji öğretmenlerinin görüşleri, Postgraduate, S.SOYSAL(Student), 2018

ELÇİN A. E., Mezenkimal kök hücrelerin in vitro ortamda çoğaltılması ve farklılaştırılması sırasında standart referans genlerin stabilitesinin belirlenmesi, Postgraduate, F.BETÜL(Student), 2018

ELÇİN A. E., Öğretmen adaylarının nanoteknolojiye yönelik tutumlarının ve tutumları etkileyen değişkenlerin incelenmesi, Doctorate, A.ŞENEL(Student), 2017

ELÇİN A. E., Hipoksik ve normoksik ortam şartlarında osteojenik nesile farklılaştırılmış insan adipoz kökenli mezenkimal kök hücrelerin gen/mikrorna ifade profillerinin karşılaştırmalı analizi, Postgraduate, O.ÇELİKAĞ(Student), 2016

ELÇİN A. E., Beyin frekans teknolojisinin 9. sınıf düzeyindeki öğrencilerin biyoloji dersine yönelik tutumlarına etkisinin değerlendirilmesi, Doctorate, A.ALTUN(Student), 2015

ELÇİN A. E., Ortaöğretimde beslenmeye yönelik bilgilerin bağlam temelli öğrenme düzeyine etkisi ve uygulanma oranları, Postgraduate, S.YOLCU(Student), 2014

ELÇİN A. E., Blog yoluyla öğretilen epigenetik konusunun öz düzenleme becerisi üzerine etkisi, Postgraduate, B.YAVUZ(Student), 2014

ELÇİN A. E., Mikroskop kullanımında ortaöğretim öğrencilerinin öz yeterlik inançlarının incelenmesi, Postgraduate, A.ÜNAL(Student), 2013

ELÇİN A. E., Hücre bölünmesi ve üreme konusunda bilgisayar destekli ve proje tabanlı eğitim yöntemlerinin karşılaştırılarak öğrenci başarısı üzerine etkisinin incelenmesi, Postgraduate, N.TOPAY(Student), 2013

ELÇİN A. E., Lisans öğrencilerinin RNA teknolojileri konusundaki bilgi seviyeleri ve sorgulamaya dayalı öğrenme yaklaşımıyla sunulan materyalin etkisi, Postgraduate, S.SAĞLAM(Student), 2012

ELÇİN A. E., Biyolojide kök hücre konusunda lisans öğrencilerinin bilgi seviyelerinin belirlenmesi, Postgraduate, Y.İMİRZİ(Student), 2011

ELÇİN A. E., Nanoteknoloji kavramlarına ilişkin rehber materyal geliştirilmesi, Postgraduate, A.ŞENEL(Student), 2009

ELÇİN A. E., Nanoteknoloji kavramlarına ilişkin rehber materyal geliştirilmesi, Postgraduate, A.ŞENEL(Student), 2009

ELÇİN A. E., DNA izolasyonu ve elektroforez konuları için rehber materyal geliştirilmesi, Postgraduate, A.ALTUN(Student), 2009

ELÇİN A. E., Biyoloji öğretmen adaylarına laboratuvar ortamında bakteriler ve mayalar arasındaki farkı kavratmada rehber materyalin etkisi, Postgraduate, G.UZUN(Student), 2007

ELÇİN A. E., Fotosentez konusu için rehber materyal geliştirilmesi, Postgraduate, G.YAZICI(Student), 2007

ELÇİN A. E., Biyoloji alanındaki yeniliklerden haberdar olunmasında yazılı basının rolü (Ankara ili örneği), Postgraduate, Ö.DEDE(Student), 2006

ELÇİN A. E., ÖSS'de öğrencilerin karşılaştıkları biyoloji kavranlarına dayalı eğitim materyali hazırlanması, Postgraduate, Z.DEVRİM(Student), 2005

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

- I. **Magnetic biocomposite scaffold based on decellularized tendon ECM and MNP-deposited halloysite nanotubes: physicochemical, thermal, rheological, mechanical and in vitro biological evaluations.**  
Koç-Demir A., Elçin A. E., Elçin Y. M.  
Biomedical materials (Bristol, England), vol.19, no.3, 2024 (SCI-Expanded)
- II. **Chitosan/PVA reinforced boron/strontium multi-substituted hydroxyapatite-based biocomposites: Effects of synthesis pH and coating on the physicochemical, mechanical, and in vitro biological properties of scaffolds**  
Kansız S., Vurat M. T., Parmaksız M., Elçin A. E., Elçin Y. M.  
Materials Today Chemistry, vol.35, pp.1-13, 2024 (SCI-Expanded)
- III. **Biomimetic mineralization of platelet lysate/oxidized dextran cryogel as a macroporous 3D composite scaffold for bone repair**  
Şeker Ş., Aral D., Elçin A. E., Elçin Y. M.  
BIOMEDICAL MATERIALS (BRISTOL, ENGLAND), vol.19, no.2, pp.1-12, 2024 (SCI-Expanded)
- IV. **Decellularized bone matrix/45S5 bioactive glass biocomposite hydrogel-based constructs with angiogenic and osteogenic properties: Ex ovo and ex vivo evaluations**  
Aytekin E., Vurat M. T., Elçin A. E., Elçin Y. M.  
MACROMOLECULAR BIOSCIENCE, vol.24, pp.1-17, 2023 (SCI-Expanded)
- V. **Development of a micro-patterned membrane consisting of a PCL/Keratin/PEGDE ternary blend using PS $\mu$ M for potential biotechnological applications**  
Sezer S., Tüzün-Antepli B., Parmaksız M., Bayramli-Öner B., Elçin A. E., Elçin Y. M.  
Journal of Polymer Research, vol.30, no.8, 2023 (SCI-Expanded)
- VI. **Bioactive composite hydrogels as 3D mesenchymal stem cell encapsulation environment for bone tissue engineering: in vitro and in vivo studies.**  
Vurat M. T., Parmaksız M., Elçin A. E., Elçin Y. M.  
Journal of biomedical materials research. Part A, vol.111, no.2, pp.261-277, 2023 (SCI-Expanded)
- VII. **Evaluation of Human Osteoblasts on NIPS Micro-Patterned PCL Carriers Containing Nanohydroxyapatite and Reduced Graphene Oxide Using PS $\mu$ M**  
Tüzün-Antepli B., Şeker Ş., Elçin A. E., Khang G., Elçin Y. M.  
Molecules, vol.27, no.20, 2022 (SCI-Expanded)
- VIII. **Development of a multicellular 3D-bioprinted microtissue model of human periodontal ligament-alveolar bone biointerface: Towards a pre-clinical model of periodontal diseases and personalized periodontal tissue engineering**  
Vurat M. T., Şeker Ş., Lalegül Ülker Ö., Parmaksız M., Elçin A. E., Elçin Y. M.  
GENES & DISEASES, vol.9, no.4, pp.1008-1023, 2022 (SCI-Expanded)
- IX. **Assessment of dopamine-conjugated decellularized bovine tendon extracellular matrix as a bioadhesive**  
Ercan H., Elçin A. E., Elçin Y. M.  
Materials Today Communications, vol.31, 2022 (SCI-Expanded)
- X. **Fabrication and Molecular Modeling of Navette-Shaped Fullerene Nanorods Using Tobacco Mosaic Virus as a Nanotemplate**  
Gungunes C. D., Başçeken S., Elçin A. E., Elçin Y. M.  
MOLECULAR BIOTECHNOLOGY, vol.64, no.6, pp.681-692, 2022 (SCI-Expanded)
- XI. **Decellularized liver ECM-based 3D scaffolds: Compositional, physical, chemical, rheological, thermal,**

**mechanical, and in vitro biological evaluations**

Ergun C., Parmaksız M., Vurat M. T., Elçin A. E., Elçin Y. M.

International Journal of Biological Macromolecules, vol.200, pp.110-123, 2022 (SCI-Expanded)

- XII. **Construction of micro-grooved PCL/nanohydroxyapatite membranes by non-solvent induced phase separation method and its evaluation for use as a substrate for human periodontal ligament fibroblasts**  
Tüzün-Antepli B., Elçin A. E., Elçin Y. M.  
Chemical Engineering Science, vol.248, 2022 (SCI-Expanded)
- XIII. **Preliminary assessment of an injectable extracellular matrix from decellularized bovine myocardial tissue**  
Ercan H., Elçin A. E., Elçin Y. M.  
Zeitschrift fur Naturforschung - Section C Journal of Biosciences, vol.76, pp.491-501, 2021 (SCI-Expanded)
- XIV. **Magneto-sensitive decellularized bone matrix with or without low frequency-pulsed electromagnetic field exposure for the healing of a critical-size bone defect**  
Parmaksız M., Lalegül Ülker Ö., Vurat M. T., Elçin A. E., Elçin Y. M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.124, 2021 (SCI-Expanded)
- XV. **Therapeutic Applications of Stem Cells and Extracellular Vesicles in Emergency Care: Futuristic Perspectives**  
Ozturk S., Elçin A. E., Koca A., Elçin Y. M.  
STEM CELL REVIEWS AND REPORTS, vol.17, no.2, pp.390-410, 2021 (SCI-Expanded)
- XVI. **Biomimetic 3D-Bone Tissue Model**  
Parmaksız M., Elçin A. E., Elçin Y. M.  
NEXT GENERATION CULTURE PLATFORMS FOR RELIABLE IN VITRO MODELS, vol.2273, pp.239-250, 2021 (SCI-Expanded)
- XVII. **Mesenchymal Stem Cells for Coronavirus (COVID-19)-Induced Pneumonia: Revisiting the Paracrine Hypothesis with New Hopes?**  
Öztürk S., Elçin A. E., Elçin Y. M.  
AGING AND DISEASE, vol.11, no.3, pp.477-479, 2020 (SCI-Expanded)
- XVIII. **Decellularized Cell Culture ECMs Act as Cell Differentiation Inducers**  
Parmaksız M., Elçin A. E., Elçin Y. M.  
STEM CELL REVIEWS AND REPORTS, vol.16, no.3, pp.569-584, 2020 (SCI-Expanded)
- XIX. **Macroporous elastic cryogels based on platelet lysate and oxidized dextran as tissue engineering scaffold: In vitro and in vivo evaluations**  
Seker Ş., Elçin A. E., Elçin Y. M.  
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.110, 2020 (SCI-Expanded)
- XX. **Evaluation of the stability of standard reference genes of adipose-derived mesenchymal stem cells during in vitro proliferation and differentiation**  
Ayanoglu F. B., Elçin A. E., Elçin Y. M.  
MOLECULAR BIOLOGY REPORTS, vol.47, no.3, pp.2109-2122, 2020 (SCI-Expanded)
- XXI. **Mesenchymal stem cell transplantation in polytrauma: Evaluation of bone and liver healing response in an experimental rat model.**  
Tanriverdi A., Polat O., Elcin A. E., Ahlat O., Gürman G., Günalp Eneyli M., Oğuz A. B., Genç S., Elçin Y. M.  
European journal of trauma and emergency surgery : official publication of the European Trauma Society, vol.46, no.1, pp.53-64, 2020 (SCI-Expanded)
- XXII. **Bioethical issues in genome editing by CRISPR-Cas9 technology**  
Ayanoglu F. B., Elçin A. E., Elçin Y. M.  
TURKISH JOURNAL OF BIOLOGY, vol.44, no.2, pp.110-120, 2020 (SCI-Expanded)
- XXIII. **Decellularized biological scaffold and stem cells from autologous human adipose tissue for cartilage tissue engineering**

- Ibsirlioglu T, Elçin A. E., Elçin Y. M.  
METHODS, vol.171, pp.97-107, 2020 (SCI-Expanded)
- XXIV. **3D Bioprinting of Tissue Models with Customized Bioinks**  
Vurat M. T., Ergun C., Elçin A. E., Elçin Y. M.  
BIOINSPIRED BIOMATERIALS: ADVANCES IN TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.1249, pp.67-84, 2020 (SCI-Expanded)
- XXV. **Autologous protein-based scaffold composed of platelet lysate and aminated hyaluronic acid**  
Seker Ş., Elçin A. E., Elçin Y. M.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.30, no.12, 2019 (SCI-Expanded)
- XXVI. **Magnetic silk fibroin composite nanofibers for biomedical applications: Fabrication and evaluation of the chemical, thermal, mechanical, and in vitro biological properties**  
Lalegül Ülker Ö., Vurat M. T., Elçin A. E., Elçin Y. M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.41, 2019 (SCI-Expanded)
- XXVII. **A CD34+Cell Enrichment Protocol of Hematopoietic Stem Cells in a Well-Established Quality Management System**  
Kılıç P., Bay M., Yildirim Y., Coskun Ö., Seker Ş., Baydın P., Ulker O. L., Parmaksız M., Çubukçuoğlu Deniz G., Yılmaz Aktuna A., et al.  
CELLS TISSUES ORGANS, vol.207, no.1, pp.15-20, 2019 (SCI-Expanded)
- XXVIII. **Encapsulation of bone marrow-MSCs in PRP-derived fibrin microbeads and preliminary evaluation in a volumetric muscle loss injury rat model: modular muscle tissue engineering**  
Lalegül Ülker Ö., Seker Ş., Elçin A. E., Elçin Y. M.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, no.1, pp.10-21, 2019 (SCI-Expanded)
- XXIX. **Decellularized bovine small intestinal submucosa-PCL/hydroxyapatite-based multilayer composite scaffold for hard tissue repair**  
PARMAKSIZ M., ELÇİN A. E., ELÇİN Y. M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.94, pp.788-797, 2019 (SCI-Expanded)
- XXX. **Osteogenic differentiation of encapsulated rat mesenchymal stem cells inside a rotating microgravity bioreactor: in vitro and in vivo evaluation**  
KOÇ DEMİR A., ELÇİN A. E., ELÇİN Y. M.  
CYTOTECHNOLOGY, vol.70, no.5, pp.1375-1388, 2018 (SCI-Expanded)
- XXXI. **Osteogenic composite nanocoating based on nanohydroxyapatite, strontium ranelate and polycaprolactone for titanium implants**  
Vurat M. T., Elçin A. E., Elçin Y. M.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.28, no.9, pp.1763-1773, 2018 (SCI-Expanded)
- XXXII. **Strontium-modified chitosan/montmorillonite composites as bone tissue engineering scaffold**  
Koç Demir A., Elcin A. E., Elçin Y. M.  
Materials Science and Engineering C, vol.89, pp.8-14, 2018 (SCI-Expanded)
- XXXIII. **Nanofibrous silk fibroin/reduced graphene oxide scaffolds for tissue engineering and cell culture applications**  
Nalvuran H., Elçin A. E., Elçin Y. M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.114, pp.77-84, 2018 (SCI-Expanded)
- XXXIV. **Selection of Suitable Reference Genes for Quantitative Real-Time PCR Normalization in Human Stem Cell Research**  
Ayanoglu F. B., Elçin A. E., Elçin Y. M.  
CELL BIOLOGY AND TRANSLATIONAL MEDICINE, VOL 4: STEM CELLS AND CELL BASED STRATEGIES IN REGENERATION, vol.1119, pp.151-168, 2018 (SCI-Expanded)
- XXXV. **Clinical Applications of Injectable Biomaterials**  
Ercan H., Durkut S., Koç Demir A., Elçin A. E., Elçin Y. M.  
NOVEL BIOMATERIALS FOR REGENERATIVE MEDICINE, vol.1077, pp.163-182, 2018 (SCI-Expanded)
- XXXVI. **Intrinsically Conductive Polymer Nanocomposites for Cellular Applications**

- Lalegül Ülker Ö., Elçin A. E., Elçin Y. M.  
CUTTING-EDGE ENABLING TECHNOLOGIES FOR REGENERATIVE MEDICINE, vol.1078, pp.135-153, 2018 (SCI-Expanded)
- XXXVII. **Investigations on clonazepam-loaded polymeric micelle-like nanoparticles for safe drug administration during pregnancy**  
Sezgin Bayındır Z., Elçin A. E., Parmaksız M., Elçin Y. M., Yüksel N.  
JOURNAL OF MICROENCAPSULATION, vol.35, no.2, pp.149-164, 2018 (SCI-Expanded)
- XXXVIII. **Decellularization of Bovine Small Intestinal Submucosa**  
Parmaksız M., Elçin A. E., Elçin Y. M.  
DECELLULARIZED SCAFFOLDS AND ORGANOGENESIS, vol.1577, pp.129-138, 2018 (SCI-Expanded)
- XXXIX. **Osteogenic differentiation of mesenchymal stem cells using hybrid nanofibers with different configurations and dimensionality**  
Gugutkov D., Awaja F., Belemzova K., Keremidarska M., Krasteva N., Kyurkchiev S., Gallego-Ferrer G., Seker Ş., Elçin A. E., Elçin Y. M., et al.  
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.105, no.7, pp.2065-2074, 2017 (SCI-Expanded)
- XL. **Decellularization of bovine small intestinal submucosa and its use for the healing of a critical-sized full-thickness skin defect, alone and in combination with stem cells, in a small rodent model**  
Parmaksız M., Elçin A. E., Elçin Y. M.  
Journal of Tissue Engineering and Regenerative Medicine, vol.11, no.6, pp.1754-1765, 2017 (SCI-Expanded)
- XLI. **Translational applications of tissue engineering in cardiovascular medicine**  
Dogan A., Elçin A. E., Elçin Y. M.  
Current Pharmaceutical Design, vol.23, no.6, pp.903-914, 2017 (SCI-Expanded)
- XLII. **Differential gene expression profiling of human adipose stem cells differentiating into smooth muscle-like cells by TGF beta 1/BMP4**  
Elçin A. E., Parmaksız M., Dogan A., Seker Ş., Durkut S., Dalva K., Elçin Y. M.  
EXPERIMENTAL CELL RESEARCH, vol.352, no.2, pp.207-217, 2017 (SCI-Expanded)
- XLIII. **A comparative study on the in vitro cytotoxic responses of two mammalian cell types to fullerenes, carbon nanotubes and iron oxide nanoparticles**  
Dönmez Güngüneş Ç., Seker Ş., Elçin A. E., Elçin Y. M.  
DRUG AND CHEMICAL TOXICOLOGY, vol.40, no.2, pp.215-227, 2017 (SCI-Expanded)
- XLIV. **Evaluation of various block copolymers for micelle formation and brain drug delivery: In vitro characterization and cellular uptake studies**  
Sezgin Bayındır Z., Ergin A. D., Parmaksız M., Elçin A. E., Elçin Y. M., Yüksel N.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.36, pp.120-129, 2016 (SCI-Expanded)
- XLV. **Real-time monitoring of mesenchymal stem cell responses to biomaterial surfaces and to a model drug by using quartz crystal microbalance**  
Seker Ş., Elçin A. E., Elçin Y. M.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, no.7, pp.1722-1732, 2016 (SCI-Expanded)
- XLVI. **Time-resolved fluorescence resonance energy transfer [TR-FRET] assays for biochemical processes**  
Ergin E., Dogan A., Parmaksız M., Elçin A. E., Elçin Y. M.  
Current Pharmaceutical Biotechnology, vol.17, no.14, pp.1222-1230, 2016 (SCI-Expanded)
- XLVII. **The use of autologous neurogenically-induced bone marrow-derived mesenchymal stem cells for the treatment of paraplegic dogs without nociception due to spinal trauma**  
Beşaltı Ö., Aktas Z., Can P., Akpınar E., Elçin A. E., Elçin Y. M.  
JOURNAL OF VETERINARY MEDICAL SCIENCE, vol.78, no.9, pp.1465-1473, 2016 (SCI-Expanded)
- XLVIII. **Ectopic osteogenic tissue formation by MC3T3-E1 cell-laden chitosan/hydroxyapatite composite scaffold**  
Koc A., Elçin A. E., Elçin Y. M.  
Artificial Cells, Nanomedicine and Biotechnology, vol.44, no.6, pp.1440-1447, 2016 (SCI-Expanded)
- XLIX. **Extracellular Matrix and Regenerative Therapies from the Cardiac Perspective**  
Dogan A., Parmaksız M., Elçin A. E., Elçin Y. M.

STEM CELL REVIEWS AND REPORTS, vol.12, no.2, pp.202-213, 2016 (SCI-Expanded)

- L. **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)
- LI. **Differentiation of Human Embryonic Stem Cells on Periodontal Ligament Fibroblasts**  
Elçin Y. M., Inanc B., Elçin A. E.  
HUMAN EMBRYONIC STEM CELL PROTOCOLS, 3 EDITION, vol.1307, pp.223-235, 2016 (SCI-Expanded)
- LII. **Subarachnoid transplantation of autologous neurogenically induced bone marrow derived mesenchymal stem cells for the treatment of fibrocartilaginous embolic myelopathy in two dogs**  
Can P., Beşaltı Ö., Akpınar E., Aktas Z., Elçin A. E., Elçin Y. M.  
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.40, no.1, pp.120-123, 2016 (SCI-Expanded)
- LIII. **Baculoviral vector loaded mesenchymal stem cells as efficient gene therapy tools for cancer treatment**  
Aktas S. H., Akbulut H., Elçin A. E., Parmaksız M., Keskin A. A., Çöleri Cihan A., Elçin Y. M., Icli F.  
TURKISH JOURNAL OF BIOLOGY, vol.40, no.5, pp.1121-1128, 2016 (SCI-Expanded)
- LIV. **Intraspinal Transplantation of Autologous Neurogenically-Induced Bone Marrow-Derived Mesenchymal Stem Cells in the Treatment of Paraplegic Dogs without Deep Pain Perception Secondary to Intervertebral Disk Disease**  
Beşaltı Ö., Can P., Akpınar E., Aktas Z., Elçin A. E., Elçin Y. M.  
TURKISH NEUROSURGERY, vol.25, no.4, pp.625-632, 2015 (SCI-Expanded)
- LV. **In vitro evaluation of encapsulated primary rat hepatocytes pre- and post-cryopreservation at-80 degrees C and in liquid nitrogen**  
Durkut S., Elçin A. E., Elçin Y. M.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.43, no.1, pp.50-61, 2015 (SCI-Expanded)
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## Supported Projects

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Elçin Y. M., Elçin A. E., Parmaksız M., TÜBİTAK Project, 123Z794, Dinamik Kovalent Bağ Oluşumu-Aracılı, Arayüz Etkileşimine Dayalı, Kendini Onarabilen Enjektte Edilebilir Nanokompozit Hidrojellerin Geliştirilmesi ve Sistematik Değerlendirilmesi, 2023 - 2025

Elçin Y. M., Kansız S., Parmaksız M., Elçin A. E., Vurat M. T., Büyüksungur A., Project Supported by Higher Education Institutions, Osteokondral Doku Mühendisliğinde Kullanıma Yönelik Kompozit Biyomürekkeplerinin Hazırlanması ve Üç-Boyutlu Basımının Optimizasyonu, 2023 - 2024

Elçin A. E., Elçin Y. M., Parmaksız M., TÜBİTAK Project, İnsan Adipoz Kök Hücre Kültürü-Temelli Hdm Nin Sentetik Doku Mühendisliği İskelesi Üzerinde In-Situ Oluşturulması: Anjiyogenik Potansiyelin In-Vitro, Ex-Ovo Ve In-Vivo Değerlendirilmesi, 2022 - 2024

Elçin Y. M., Elçin A. E., Technopark, Elastik Özellikte Rejeneratif Biyogreft Geliştirilmesi (Ek), 2023 - 2023

Elçin Y. M., Elçin A. E., Technopark, Elastik Özellikte Rejeneratif Biyogreft Geliştirilmesi, 2022 - 2022

Koç Demir A., Elçin A. E., TÜBİTAK Project, Kemik Doku Mühendisliği Çalışmaları İçin Tendon Hücre Dışı Matriks Temelli Manyetik Özellikte Haloisit İskelelerinin Hazırlanması Ve Karakterizasyonu, 2021 - 2022

Elçin Y. M., Elçin A. E., TÜBİTAK - AB COST Project, 119N136, Development of micro-patterned and micro-porous

composite scaffolds based on poly( $\epsilon$ -caprolactone), hydroxyapatite and reduced graphene oxide using the phase separation techniques for hard tissue repair, 2020 - 2022

Elçin Y. M., Elçin A. E., Technopark, Biyoaktif Hidrojel Geliştirilmesi, 2020 - 2021

Elçin A. E., Project Supported by Higher Education Institutions, 19L0216002, Kontrollü olarak Sirkadiyen ritmi bozulan sıçanların adipoz mezenkimal kök hücrelerinin özelliklerindeki potansiyel değişimlerin incelenmesi, 2019 - 2020

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Elçin Y. M., Elçin A. E., Parmaksız M., Technopark, Doğal Kaynaklı Biyoaktif Doku Greftlerinin Geliştirilmesi , 2016 - 2018

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ELÇİN A. E., AHLAT O., KOCA A., POLAT O., Project Supported by Higher Education Institutions, Deneysel Rat Politravma Modelinde Intraperitoneal ve İntravenöz Mezenkimal Kök Hücrenin İnflamatuar Yanıt ve Kemik Karaciğerdeki Doku İyileşmesi Üzerine Etkileri, 2015 - 2016

Elçin A. E., Project Supported by Higher Education Institutions, 15L0216002, Hipoksik ve Normoksik Ortam Şartlarında Osteojenik Nesile Farklılaştırılmış İnsan Adipoz Kökenli Mezenkimal Kök Hücrelerin Gen MikroRNA İfade Profillerinin Karşılaştırmalı Analizi, 2015 - 2016

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## Memberships / Tasks in Scientific Organizations

Biyomalzeme ve Doku Mühendisliği Derneği, Board Member, 2008 - 2021, Turkey

## Scientific Research / Working Group Memberships

Elcinlab (Doku Mühendisliđi, Biyomalzemeler Ve Nanobiyoteknoloji Arařtırma Grubu), Ankara University, Türkiye,  
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