

## Prof. YAŞAR MURAT ELCİN

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: O-2435-2019

ScopusID: 6602822937

Yoksis Researcher ID: 10930

### Education Information

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- I. Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1990 - 1993
- II. Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1987 - 1990
- III. Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1981 - 1987

### Foreign Languages

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- I. English, C1 Advanced

### Research Areas

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Biomedical Engineering, Biotechnology, Biomedical Engineering, Tissue Engineering, Stem Cell Engineering, Polymer Technology, Material science and engineering, Composites, Glass Technology and Glass Ceramics, Polymeric Materials, Biomaterials, Plating, Material Characterization, Nanomaterials, Biomaterial, Biosensor, Biochemistry, Polymers and Their Applications, nanocomposites, Polymeric Materials, Medical Applications of Polymers

### Academic Titles / Tasks

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- I. Professor, Ankara University, Sağlık Bilimleri Enstitüsü, Disiplinlerarası Kök Hücre ve Yenileyici Tıp Anabilim Dalı, 2013 - Continues
- II. Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2005 - Continues
- III. Professor, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji Anabilim Dalı, 2003 - Continues
- IV. Professor, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Biyokimya) Anabilim Dalı, 1996 - Continues
- V. Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 1999 - 2005
- VI. Assistant Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 1996 - 1999
- VII. Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 1988 - 1996

### Academic and Administrative Experience

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- I. Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2005 - 2017
- II. Assistant Director of the Institute, Ankara University, Kök Hücre Enstitüsü, 2010 - 2016

## Courses

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- I. Kök Hücre Kullanım Alanları, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
- II. UZMANLIK ALAN DERSİ (BAHAR), Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007
- III. UZMANLIK ALAN DERSİ (GÜZ), Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006
- IV. BİYOMALZEMELER, Postgraduate, 2023 - 2024, 2017 - 2018
- V. BIOCHEMISTRY I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
- VI. BİYOKİMYA LABORATUVARI (1. ÖĞRETİM), Undergraduate, 2022 - 2023, 2021 - 2022, 2014 - 2015, 2013 - 2014
- VII. BIOCHEMISTRY II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
- VIII. Yenileyici Tipta Kavramlar, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
- IX. SPECIAL SUBJECT (CA), Undergraduate, 2023 - 2024
- X. BİYOTEKNOLOJİNİN TEMELLERİ, Undergraduate, 2017 - 2018, 2016 - 2017
- XI. BİYOKİMYA LABORATUVARI, Undergraduate, 2017 - 2018, 2016 - 2017
- XII. ANALİTİK BİYOKİMYA LABORATUVARI, Undergraduate, 2016 - 2017
- XIII. ANALİTİK BİYOKİMYA LABORATUVARI (1. ÖĞRETİM), Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014
- XIV. BİYOKİMYA LABORATUVARI (2. ÖĞRETİM), Undergraduate, 2014 - 2015, 2013 - 2014
- XV. BİYOTEKNOLOJİNİN TEMELLERİ (2. ÖĞRETİM), Undergraduate, 2014 - 2015, 2013 - 2014
- XVI. BİYOMALZEME, Postgraduate, 2014 - 2015, 2013 - 2014
- XVII. BİYOTEKNOLOJİNİN TEMELLERİ (1. ÖĞRETİM), Undergraduate, 2014 - 2015, 2013 - 2014
- XVIII. Doku Mühendisliği, Postgraduate, 2013 - 2014
- XIX. Analitik Biyokimya Laboratuvarı (2. Öğretim), Undergraduate, 2013 - 2014

## Advising Theses

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- I. Elçin Y. M., Plasental kök hücrelerin makromoleküler kalabalık ortamda kondrojenik farklılaşmasının incelenmesi, Postgraduate, S.ÖZÇELİK(Student), 2023
- II. Elçin Y. M., Kök hücrelerin osteojenik farklılaşmasına elektromanyetik alanın ve seramik-kaplı manyetik nanopartiküllerin etkisinin incelenmesi, Doctorate, B.BAYRAMLI(Student), 2023
- III. Elçin Y. M., Keratin temelli nanokompozit biyomalzemelerin geliştirilmesi, Doctorate, S.SEZER(Student), 2022
- IV. Elçin Y. M., Düşük frekanslı darbeli elektromanyetik alanın mezenkimal kök hücre kültürlerine etkisinin incelenmesi, Postgraduate, A.TOPRAKKALE(Student), 2022
- V. Elçin Y. M., Doku mühendisliğine yönelik anjiogenik özellikte biyomalzeme geliştirilmesi, Postgraduate, E.AYTEKİN(Student), 2022
- VI. Elçin Y. M., Biyokompozit substratlarda kültürün mezenkimal kök hücre-kaynaklı ekstraselüler veziküllere olan etkilerinin incelenmesi, Postgraduate, N.AYŞENUR(Student), 2022
- VII. Elçin Y. M., Kemik yenilenmesine yönelik otolog bileşenli kompozit yapı iskelelerinin geliştirilmesi ve karakterizasyonu, Postgraduate, D.ARAL(Student), 2022
- VIII. Elçin Y. M., Üç-boyutlu biyobasım için yeni kompozit biyümerekkep geliştirilmesi ve karakterizasyonu, Doctorate, M.TANER(Student), 2021
- IX. Elçin Y. M., Karaciğer dokusu temelli hidrojel biyomalzeme geliştirilmesi, Postgraduate, C.ERGÜN(Student), 2021
- X. Elçin Y. M., Development and characterization of bioadhesive injectable polymeric systems for biomedical applications, Doctorate, H.ERCAN(Student), 2020
- XI. Elçin Y. M., Elektromanyetik nanokompozitlerin biyoteknoloji uygulamalarına yönelik olarak üretimi ve geliştirilmesi, Doctorate, Ö.LALEĞÜL(Student), 2020

- XII. Elçin Y. M., Ranolazinin insan koroner arter endotel hücreleri üzerindeki etkisinin in-vitro şartlarda araştırılması, Postgraduate, S.ÖZTÜRK(Student), 2019
- XIII. Elçin Y. M., Comparative efficacy evaluation cell culture-derived extracellular matrix as native niche and as biomimetic component in tissue engineering scaffold, Doctorate, M.PARMAKSIZ(Student), 2018
- XIV. Elçin Y. M., Mikroyerçekim biyoreaktöründe adipoz kök hücrelerden kardiyak hücrelerin üretilmesi, Doctorate, A.DOĞAN(Student), 2017
- XV. Elçin Y. M., Köpek mezenkimal kök hücrelerinin in-vitro nörojenik farklılaştırılması ve özelliklerinin incelenmesi, Doctorate, Z.KURT(Student), 2017
- XVI. Elçin Y. M., Nano metal oksit ve karbon nanomalzemelerin sitotoksik etkilerinin in vitro ortamda araştırılması, Doctorate, Ç.DÖNMEZ(Student), 2016
- XVII. Elçin Y. M., İnsan adipoz-kökenli mezenkimal kök hücrelerin mikroyerçekimi ve yerçekimi şartlarında adipojenik farklılaşmasının karşılaştırmalı olarak incelenmesi, Postgraduate, G.ERDEM(Student), 2016
- XVIII. Elçin Y. M., Nanofibrous silk fibroin/reduced graphene oxide scaffolds for biomedical applications, Postgraduate, H.NALVURAN(Student), 2016
- XIX. Elçin Y. M., Development of osteogenic surface nanocoatings for titanium implant applications, Postgraduate, M.TANER(Student), 2016
- XX. Elçin Y. M., Sert doku onarımı için üç-boyutlu polimer-biyosерамик yapıların geliştirilmesi ve hücre kültürlerinde kullanımı, Doctorate, E.BAYKAN(Student), 2015
- XXI. Elçin Y. M., Adipoz kökenli mezenkimal kök hücre dizilerinin geliştirilmesi, immünenotipik karakterizasyonu ve farklılaşma özelliklerinin incelenmesi, Doctorate, T.İBŞİRLİOĞLU(Student), 2015
- XXII. Elçin Y. M., Kalp dokusu kaynaklı biyomalzemelerin geliştirilmesi ve hücre kültürlerinde kullanılması, Postgraduate, H.ERCAN(Student), 2014
- XXIII. Elçin Y. M., GEN VE KÖK HÜCRE BULUŞLARININ PATENLENEBİLİRLİĞİ, Postgraduate, Ş.PAK(Student), 2014
- XXIV. Elçin Y. M., Adipoz mezenkimal kök hücrelerin damar düz kas hücrelerine farklılaştırılması ve damar doku mühendisliğinde kullanımı, Doctorate, Y.EMRE(Student), 2013
- XXV. Elçin Y. M., Trombositten zengin plazma (TZP) kaynaklı fibrin mikrokürelerin üretimi ve doku mühendisliğinde kullanımı, Postgraduate, Ö.LALEGÜL(Student), 2013
- XXVI. Elçin Y. M., Biyomalzeme kullanımına yönelik sığır sis deselülezasyonu ve sıçanlarda kritik boyutlu tam kalınlık yara iyileşme modelinde etkinliğinin değerlendirilmesi, Postgraduate, M.PARMAKSIZ(Student), 2012
- XXVII. Elçin Y. M., Kıkıldak doku onarımı için hiyalüronik asit temelli yapı iskelelerinin geliştirilmesi ve hücre kültürlerinde kullanımı, Doctorate, B.DEMİRDÖGEN(Student), 2012
- XXVIII. Elçin Y. M., Yapay niş mikroçevrede doku gelişim modeli oluşturulması, Doctorate, N.EMİN(Student), 2012
- XXIX. Elçin Y. M., Sert doku onarımına yönelik makrogözeneqlik kollajen-hidroksiapatit matriks yapılarının geliştirilmesi ve hücre kültüründe kullanımı, Postgraduate, Z.AKTAŞ(Student), 2011
- XXX. Elçin Y. M., PEG ile stabilize edilmiş kollajen-kitosan hidrojellerin biyomalzeme olarak geliştirilmesi, Postgraduate, S.SEZER(Student), 2011
- XXXI. Elçin Y. M., Memeli hücrelerinin farklı substrat yüzeyler üzerine adezyonunun kuartz kristal mikrobalsans sistemi ile eş-zamanlı belirlenmesi, Doctorate, Ş.ŞEKER(Student), 2011
- XXXII. Elçin Y. M., Farklı polimer membran yüzeylerde sıçan neonatal siyatik sinir hücresi çoğalması, Postgraduate, N.ÇELİK(Student), 2011
- XXXIII. Elçin Y. M., Mezenkimal kök hücrelerinin ve kompozit iskelelerin kullanımıyla kemik doku mühendisliği, Doctorate, A.KOÇ(Student), 2008
- XXXIV. Elçin Y. M., Primer sıçan karaciğer hücrelerinin hidrojel yapıtı kitosan ve alginat gibi polimerlerde enkapsülasyonu ve in vitro ortamda bazı özelliklerinin incelenmesi, Doctorate, S.DURKUT(Student), 2008
- XXXV. Elçin Y. M., Sıçan kemik iliği mezenkimal kök hücrelerinin proteom incelemesi, Postgraduate, B.ÇELEBİ(Student), 2007
- XXXVI. Elçin Y. M., Elektrodöndürme tekniğiyle oluşturulan polimer nano-liflerin memeli hücresi etkileşimlerinin incelenmesi, Postgraduate, Y.EMRE(Student), 2007
- XXXVII. Elçin Y. M., HLA-G geninin 3'ut bölgesindeki 14 baz çiftlik delesyon polimorfizminin fertilizasyon üzerine etkisi, Doctorate, E.ÜNSAL(Student), 2007
- XXXVIII. Elçin Y. M., Tütün mozaik virüsünün kalıp etkisi ile biyosensör olarak kullanılabilir fulleren nanokabloların

- hazırlanması, Postgraduate, Ç.DÖNMEZ(Student), 2007
- XXXIX. Elçin Y. M., İzole edilmiş sıçan kondrositleri ve polimerik biyomalzemelerin kullanımıyla kıkırdak doku mühendisliği, Postgraduate, N.EMİN(Student), 2006
- XL. Elçin Y. M., Polimer İskeleler Üzerinde Sıçan Kondrositleriyle Kıkırdak Dokusu Geliştirilmesi, Postgraduate, N.EMİN(Student), 2005
- XLI. Elçin Y. M., Sıçan pankreatik adacıklarının In vitro kültürdeki canlılığına ve glukoza cevap fonksiyonuna enkapsülasyonun ve VEGF'nin etkilerinin incelenmesi, Postgraduate, H.COŞKUN(Student), 2005
- XLII. Elçin Y. M., Piezoelektrik kuartz kristal mikrobalans sistemine dayalı glikonik asit biyosensörünün geliştirilmesi, Postgraduate, Ş.ŞEKER(Student), 2005
- XLIII. Elçin Y. M., İzole edilmiş sıçan kondrositlerinin ve polimer iskeletlerin kullanımıyla kıkırdak dokusu geliştirilmesi, Postgraduate, N.EMİN(Student), 2005
- XLIV. Elçin Y. M., Protein yapısındaki makromoleküllerin salımını yapabilen biyobozunur polimer mikrokürelerin geliştirilmesi ve karakterizasyonu, Postgraduate, H.COŞKUN(Student), 2005
- XLV. Elçin Y. M., Bazı polimerik malzemelerin biyoyum ve biyobozunma özelliklerinin incelenmesi, Postgraduate, A.KOÇ(Student), 2003
- XLVI. Elçin Y. M., Kitosana-Dayalı Hidrojellerin Bazı Biyotip Uygulamalarının İncelenmesi, Postgraduate, S.DURKUT(Student), 2001

### Jury Memberships

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- I. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2023, August, 2023
  - II. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2022, UNESCO-Türkiye Milli Komisyonu, July, 2022
  - III. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2020, UNESCO Türkiye Milli Komisyonu, June, 2020
  - IV. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2019, UNESCO Türkiye Milli Komisyonu, June, 2019
  - V. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2018, UNESCO Türkiye Milli Komisyonu, June, 2018
  - VI. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2017, July, 2017
  - VII. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2016, July, 2016
  - VIII. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2015, July, 2015
  - IX. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2014, July, 2014
  - X. Award, L'ORÉAL-UNESCO Ulusal Genç Bilim Kadınlarına Destek Programı 2013, July, 2013
  - XI. Award, TÜBA GEBİP Ödülleri 2013, Türkiye Bilimler Akademisi (TÜBA), May, 2013
  - XII. Award, TÜBA GEBİP Ödülleri, May, 2011
  - XIII. Award, TÜBA GEBİP Ödülleri, May, 2010
  - XIV. Award, TÜBA GEBİP Ödülleri, May, 2009
  - XV. Award, TÜBA GEBİP Ödülleri, May, 2008
  - XVI. Award, TÜBA GEBİP Ödülleri, Türkiye Bilimler Akademisi, May, 2007

### 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. **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)
- III. **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)
- 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., Bayramlı-Öner B., Elçin A. E., Elçin Y. M.  
Journal of Polymer Research, vol.30, no.8, 2023 (SCI-Expanded)
- VI. **Advanced liposome and polymersome-based drug delivery systems: Considerations for physicochemical properties, targeting strategies and stimuli-sensitive approaches**  
Kansız S., Elçin Y. M.  
ADVANCES IN COLLOID AND INTERFACE SCIENCE, pp.1-31, 2023 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- 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. **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)
- XII. **Macro- and microporous polycaprolactone/duck's feet collagen scaffold fabricated by combining facile phase separation and particulate leaching techniques to enhance osteogenesis for bone tissue engineering**  
Song Y., Choi J. H., Tumursukh N., Kim N. E., Jeon G. Y., Kim S. E., Kim S. I., Song J. E., Elçin Y. M., Khang G.  
Journal of Biomaterials Science, Polymer Edition, vol.33, pp.1025-1042, 2022 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. 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)
- XVI. 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)
- XVII. 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)
- XVIII. Magnetic and electrically conductive silica-coated iron oxide/polyaniline nanocomposites for biomedical applications**  
Lalegül Ülker Ö., Elçin Y. M.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.119, 2021 (SCI-Expanded)
- XIX. 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)
- XX. 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)
- XXI. 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)
- XXII. 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)
- XXIII. 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)
- XXIV. Mesenchymal stem cell transplantation in polytrauma: Evaluation of bone and liver healing response in an experimental rat model.**  
Tanrıverdi A., Polat O., Elçin 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)
- XXV. 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)

- XXVI. **Synthesis and Characterization of Thermosensitive Poly(N-Vinyl Caprolactam)-Grafted-Aminated Alginate Hydrogels**  
DURKUT S., ELÇİN Y. M.  
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.221, no.2, 2020 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **Decellularized biological scaffold and stem cells from autologous human adipose tissue for cartilage tissue engineering**  
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- I. **Tissue engineering of liver**  
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- II. **Synergistic Effect of Electromagnetic Field and Coated Magnetic Nanoparticles on Adipose Stem Cells**  
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- III. **Investigation of a Proangiogenic Biocomposite of Decellularized Bone Matrix and Bioactive Glass**  
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- IV. **DBM-nHAp as a Bone Marrow Mesenchymal Stem Cell Encapsulation Matrix Adaptable to Surgical Shaping Procedures: In Vitro and In Vivo Evaluations**  
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- V. **Tendon Hücre Dışı Matriksi Temelli Manyetik Özellikteki Halloysit İskelelerinin Hazırlanması ve Karakterizasyonu**  
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- VI. **3-Boyutlu Biyobasım ile In Vitro Perio/Osteo Biyoarayüzünnen Geliştirilmesi ve Mikroakışkan Çipte Kültürü**  
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- IX. **Recent Developments in Regenerative Biomaterials, Tissue Engineering and In Vitro Tissue Models**  
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- X. **Three-Dimensional Bioprinting in Regenerative Medicine and Personalized Medicine**  
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- XXVI. **From decellularized scaffolds to bioengineered organs**  
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- XXVII. **EVALUATION OF POLYMERIC MICELLES PREPARED FROM VARIOUS BLOCK COPOLYMERS FOR BRAIN TARGETING : IN VITRO CELLULAR UPTAKE STUDIES**  
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- XXVIII. **Mesenchymal stem cell effects on bone and liver tissue healing in experimental polytrauma rat model**  
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- XXXIV. **MicroRNA expression of osteogenically differentiated human adipose stem cells under hypoxic and normoxic culture conditions**  
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- XL. **Osteogenic Coatings of Hydroxyapatite and Strontium Ranelate for Titanium Implant**  
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- XLI. **Osteogenic Differentiation of Mesenchymal Stem Cells on Silk/Reduced Graphene Oxide Nanofibers**  
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- XLII. **Development of Magnetic Silk Fibroin Nanofibers for Regenerative Medicine Applications**  
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- XLIII. **Evaluating the efficiency of decellularization protocols for cell culture derived ECM**  
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- XLV. **Isolation And Culture Of Good Manufacturing Practice Grade Human Bone Marrow Derived Mesenchymal Stem Cells For Clinical Applications**  
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- LIII. **Nanotechnology applications in regenerative medicine**

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- LIV. **In vitro adipogenic differentiation of human adipose stem cells under simulated microgravity**

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- LV. **Osteogenic nanocoatings based on polycaprolactone nanohydroxyapatite and strontium ranelate for orthopaedic titanium implant applications**

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- LVI. **Nanofibrous silk fibroin reduced graphene oxide scaffolds for tissue engineering and cell culture applications**

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- II. 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
- III. Elçin Y. M., Elçin A. E., Technopark, Elastik Özellikte Rejeneratif Biyogreft Geliştirilmesi (Ek), 2023 - 2023
- IV. Elçin Y. M., Elçin A. E., Technopark, Elastik Özellikte Rejeneratif Biyogreft Geliştirilmesi, 2022 - 2022
- V. 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
- VI. Elçin Y. M., Elçin A. E., Technopark, Biyoaktif Hidrojel Geliştirilmesi, 2020 - 2021
- VII. Elçin Y. M., TUBITAK Project, 119M663, Poli(anilin)-Temelli, Silika Kaplı MNP Katkılmış Elektromanyetik Nanokompozitlerin Biyomalzeme Uygulamalarına Yönelik Olarak Geliştirilmesi, 2019 - 2020
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- IX. Elçin Y. M., TÜBİTAK - AB COST Project, 117M281, Üç-Boyutlu Biyobasım ile Canlı Perio/Osteo Mikroakışkan Doku Çip Sisteminin Geliştirilmesi ve Model İlaç Etkileşiminin İncelenmesi, 2017 - 2020
- X. Elçin Y. M., Elçin A. E., Technopark, Manyetik Duyarlı Biyoaktif Doğal Kemik Matriksi Temelli Nanokompozit Biyomalzeme Geliştirilmesi ve In-Vivo Etkinliğinin Küçük Hayvan Modelinde İncelenmesi, 2018 - 2019
- XI. Elçin Y. M., Project Supported by Higher Education Institutions, 17L0430005, Mikroyerçekim Biyoreaktöründe Adipoz Kök Hücrelerden Kardiyak Hücrelerin Üretilmesi, 2017 - 2018
- XII. Elçin Y. M., Elçin A. E., Dalva K., TÜBİTAK - AB COST Project, 214M159, Efficacy Evaluation of Pluripotent, Multipotent and Somatic Cell Culture-Derived Extracellular Matrix as Natural Niche and as Biomimetic Component in Tissue Engineering Scaffold , 2015 - 2018
- XIII. Elçin Y. M., Elçin A. E., TUBITAK Project, 215M338, Evaluation of the Potential Use of Decellularized Bovine Small

- Intestinal Submucosa and Hydroxylapatite Based Composite Biomaterial for Bone Tissue Engineering, 2016 - 2017
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- XXII. Elçin Y. M., TÜBİTAK - AB COST Project, 111M336, Adipoz Mezenkimal Kök Hücrelerle Mekanoaktif Damar Mühendisliği, 2011 - 2013
- XXIII. Elçin Y. M., Project Supported by Higher Education Institutions, 10A0216001, Ankara Üniversitesi Kök Hücre Enstitüsü Altyapısının Oluşturulması, 2011 - 2013
- XXIV. Elçin Y. M., TÜBİTAK - AB COST Project, 108M501, İşlevsel Kemik Doku Mühendisliği Mekanotransduksiyon Etkisindeki Adipoz Kökenli Kök Hücrelerden Yeni Kemik Dokusu Geliştirilmesi, 2009 - 2012
- XXV. Elçin Y. M., TUBITAK Project, 106M373, Elektroegirme Tekniğiyle Hazırlanmış Polimer Nanolif İskeleler Üzerinde Periodontal Ligament Fibroblast Tabakalarının Oluşturulması ve Yeni Doku Tabakalarının Karakterizasyonu, 2007 - 2009
- XXVI. Elçin Y. M., Binnet M. S., Başarır K., Emin N., Project Supported by Higher Education Institutions, 2005/130, Travmatik Kıkırdak Kayıplarının Tedavisinde Otolog Kondrosit Transplantasyon Etkinliğinin İncelenmesi, 2005 - 2008
- XXVII. Elçin Y. M., Project Supported by Higher Education Institutions, 2005/169, Tütün Mozaik Virüsünün Kalıp Etkisiyle Potansiyel Biyosensör Uygulamalarına Yönelik Fulleren Nanokabloların Hazırlanması, 2005 - 2007
- XXVIII. Elçin Y. M., Project Supported by Higher Education Institutions, 2003/97, İnsan Embriyonik Kök Hücrelerinin In Vitro Ortamda Osteojenik Hücrelere Farklılaştırılması, 2003 - 2007
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- XXX. Elçin Y. M., TUBITAK Project, 103T159, İnsan Embriyonik Kök Hücrelerinin İki ve Üç Boyutlu Kültür Ortamlarındaki Farklılaşma Paternlerine NGF ve Retinoik Asidin Etkilerinin İncelenmesi, 2004 - 2006
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- XXXII. Elçin Y. M., Project Supported by Higher Education Institutions, 2004/144, Sıçan Pankreatik Adacıklarının In Vitro Kültürdeki Canlılığına ve Glukoza Cevap Fonksiyonuna Enkapsülasyonun ve VEGF nin Etkilerinin İncelenmesi, 2004 - 2005
- XXXIII. Elçin Y. M., Project Supported by Higher Education Institutions, 2002/26, Karaciğer Doku Mühendisliği Organoidlerin Canlılık ve Metabolik Aktivite Çalışmaları, 2002 - 2004
- XXXIV. Elçin Y. M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, 98K120760, Biyoyıkılır Polimerlerin Doku Mühendisliğinde Kullanımı Biyoyapay Karaciğer Organoidi Geliştirilmesi, 1998 - 2002
- XXXV. Elçin Y. M., Project Supported by Higher Education Institutions, 97050405, Nöral Doku Mühendisliği Biyoyıkılır Polimerik Hücre Substratlarının Ratlarda Kromafin Hücre Canlılığı ve Entegrasyonuna Etkisi, 1997 - 2000
- XXXVI. Elçin Y. M., TUBITAK Project, 194T083, Karboksimetilsüloz Kitosan Alginat Mikrokapsüllerin Üreaz İmmobilizasyonunda Kullanımı, 1995 - 1996

- XXXVII. Elçin Y. M., Project Supported by Higher Education Institutions, 94050301, Mikrokapsüllerin Biyomedikal Kullanımları Reaktif Mikrokürelerin Hazırlanması, 1994 - 1996

## Patent

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- I. Elçin Y. M., Matrisis, Trademark, CHAPTER A Human Needs, The Invention Registration Number: 2019 23270 , Standard Registration, 2019
- II. Elçin Y. M., Hemagraft, Trademark, CHAPTER A Human Needs, The Invention Registration Number: 2018 94126 , Standard Registration, 2019
- III. 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
- IV. Elçin Y. M., Parmaksız M., Elçin A. E., Sığır kaynaklı rejeneratif biyomalzeme, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2013/14952 B , Standard Registration, 2017
- V. Elçin Y. M., Füzyonu artıran osteojenik ve biyoyumlu dolgulu kemik plaka ve vida sistemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2014 10238 B , Standard Registration, 2017
- VI. Elçin Y. M., Elçin A. E., Şeker Ş., Lalegül Ülker Ö., Trombositten zengin plazma kaynaklı biyomalzeme ve üretim yöntemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2012/01068 , Standard Registration, 2016
- VII. Şeker Ş., Elçin Y. M., Trombositten Zengin Plazma, Alginat ve Trombin Kullanılarak Fibrin Mikrokürelerin Hazırlanması Yöntem, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2012/01068 B , Standard Registration, 2016
- VIII. Elçin Y. M., Elçin A. E., Sert veya Yumuşak Doku Mühendisliği Uygulamaları İçin Makro ve/veya Mikro Gözenekli Matriks Yapılarının Geliştirilmesi, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2012 01600 B , Standard Registration, 2015
- IX. Elçin Y. M., Biovalda, Trademark, CHAPTER A Human Needs, The Invention Registration Number: 2014 10674 , Standard Registration, 2015

## Activities in Scientific Journals

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- I. APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY - PART B MOLECULAR BIOTECHNOLOGY, Committee Member, 2021 - Continues
- II. Genes and Diseases, Committee Member, 2021 - Continues
- III. STEM CELL REVIEWS AND REPORTS, Editor, 2017 - Continues
- IV. STEM CELL REVIEWS AND REPORTS, Committee Member, 2009 - Continues
- V. WORLD JOURNAL OF STEM CELLS, Committee Member, 2015 - 2021
- VI. JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, Committee Member, 2011 - 2021

## Memberships / Tasks in Scientific Organizations

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- I. Biyomalzeme ve Doku Mühendisliği Derneği, Chairman, 2021 - Continues, Turkey
- II. ISSCR - International Society for Stem Cell Research, Member, 2009 - Continues, United States Of America
- III. Biyomalzeme ve Doku Mühendisliği Derneği, Board Member, 2008 - Continues, Turkey
- IV. UNESCO Türkiye Millî Komisyonu Biyoetik İhtisas Komitesi, Member of Science Committee, 2014 - 2018, Turkey
- V. Türkiye Bilimler Akademisi, Associate Member, 2008 - 2017, Turkey
- VI. UNESCO Türkiye Millî Komisyonu Doğa Bilimleri İhtisas Komitesi, Member of Science Committee, 2013 - 2014, Turkey
- VII. EC ERA-Net EuroNanoMed Joint Transnational Call Panel (Nanomedicine), Member of Science Committee, 2009 -

- 2009, Belgium
- VIII. The University of Toronto Joint Centre for Bioethics Panel (Regenerative Medicine), Member of Science Committee, 2005 - 2005, Canada

## Scientific Consultations

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- I. Science and Technology Council of Portuguese (FCT, Fundação para a Ciência e a Tecnologia), Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2020 - 2021
- II. ODTÜ Prof. Dr. Mustafa N. PARLAR Eğitim ve Araştırma Vakfı, Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2020 - 2020
- III. ODTÜ Prof. Dr. Mustafa N. PARLAR Eğitim ve Araştırma Vakfı, Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2015 - 2015
- IV. Kanada, Quebec-Flanders; Fonds Recherche Québec-Nature et technologies; Quebec, Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2015 - 2015
- V. European Commission - EuroNanoMed, Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2009 - 2009
- VI. University of Toronto (Expert Panel on Regenerative Medicine), Scientific Consultancy, Ankara University, Biyoteknoloji Enstitüsü, Temel Biyoteknoloji Anabilim Dalı, Turkey, 2005 - 2005
- VII. Kanada NSERC (National Science and Engineering Research Council)), Scientific Consultancy, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey, 2001 - 2001

## Tasks In Event Organizations

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- I. Elçin A. E., Elçin Y. M., 27. Biyomedikal Bilim ve Teknoloji Sempozyumu (BIOMED 2023), Scientific Congress, Turkey, Ekim 2023
- II. Elçin Y. M., BIOMED 2022 - 26th International Biomedical Science and Technology Symposium, Scientific Congress, Ankara, Turkey, Kasım 2022
- III. Elçin Y. M., 25. Ulusal Biyomedikal Bilim ve Teknoloji Sempozyumu (BIOMED 2021), Scientific Congress, Ankara, Turkey, Aralık 2021
- IV. Elçin Y. M., 22nd International Symposium on Biomedical Science & Technology (BIOMED 2017), Scientific Congress, Ankara, Turkey, Mayıs 2017
- V. Elçin Y. M., 17th International Symposium on Biomedical Science & Technology (BIOMED 2011), Scientific Congress, Ankara, Turkey, Kasım 2011
- VI. Elçin Y. M., 9th International Symposium on Biomedical Science & Technology (BIOMED 2002), Scientific Congress, Antalya, Turkey, Eylül 2002

## Scientific Research / Working Group Memberships

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- I. Elcinlab (Doku Mühendisliği, Biyomaterials and Nanobiotechnology Research Group), Ankara University, Türkiye, [www.elcinlab.org](http://www.elcinlab.org), 1993 - Continues

## Metrics

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Publication: 270  
Citation (WoS): 2940  
Citation (Scopus): 3011

H-Index (WoS): 31  
H-Index (Scopus): 31

## Congress and Symposium Activities

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- I. International Conference on Nanotechnology Applications (NANOTEC2016), Invited Speaker, Valencia, Spain, 2016

## Scholarships

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- I. Invited Research Associate, Islet Unit, University, 2000 - 2000
- II. UNESCO High Level Research Fellowship, UNESCO, 1998 - 1998
- III. British Council Short Term Research Visit, British Council, 1997 - 1997
- IV. TUBITAK-NATO B2 Post-Doctoral Research Fellowship, TUBITAK, 1995 - 1995

## Awards

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- I. Elçin Y. M., 2023 Yılı Fen Fakültesi Birincilik Ödülü - Ankara Üniversitesi Ödülleri, Ankara Üniversitesi Rektörlüğü, January 2024
- II. Elçin Y. M., Elçin A. E., Biotechnology and Genome Technology Award - The R&D / Innovation of the Year (Hemagraft/Biovalda Inc.), Doktorclub Awards "Türkiye'nin Sağlık Ödülleri" (65000+ Hekim Üyeli Dijital Platform), December 2019
- III. Elçin Y. M., METU Parlar Foundation Science Award, Orta Doğu Teknik Üniversitesi Prof.Dr. Mustafa Parlar Vakfı, December 2018
- IV. Elçin Y. M., Ankara University Science Award, Ankara Üniversitesi, June 2008
- V. Elçin Y. M., TÜBA Asosiyə Üyesi, Türkiye Bilimler Akademisi, June 2008
- VI. Elçin Y. M., Ankara University Science Encouragement Award, Ankara Üniversitesi, June 2004
- VII. Elçin Y. M., TAoS Distinguished Young Scientist Award, Türkiye Bilimler Akademisi, May 2002