

ÖZGEÇMİŞ

1. Adı Soyadı : Erkan Türker Boran

İletişim Bilgileri

Adres : Sağlık Bilimleri Üniversitesi , Tıbbiye Cad. No:38 34668 Üsküdar, İstanbul.

Telefon : +90 5532567129

Mail : erkanturkerbaran@gmail.com

2. Doğum Tarihi : 15/04/1971

3. Unvanı : Doçent

4. Öğrenim Durumu : Doktora

Derece	Alan	Üniversite	Yıl
Lisans	BİYOLOJİK BİLİMLER	Orta Doğu Teknik Üniversitesi	1993
Yüksek Lisans	BİYOKİMYA BÖLÜMÜ	Orta Doğu Teknik Üniversitesi	1996
Doktora	BİYOTEKNOLOJİ BÖLÜMÜ	Orta Doğu Teknik Üniversitesi	2001

5. Akademik Ünvanlar

Yardımcı Doçent: Sağlık Bilimleri Üniv. 2016-

Doçent: Üniversiteler Arası Kurul (ÜAK) 2012-

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri (Yardımcı Danışman olarak)

1. Kömez A. Master Tezi, “Construction of retina substitute by using tissue engineering approach ”

Biyoteknoloji Bölümü, Orta Doğu Teknik Üniversitesi, Ankara, 2015.

2. Aydoğdu H. Master Tezi “Design of Affinity Based Three-Dimensional Scaffolds for Osteochondral

Defects” Biomedikal Mühendisliği Bölümü, Orta Doğu Teknik Üniversitesi, Ankara, 2015.

6.2. Doktora Tezleri

7. Yayınlar

7.1. Uluslar arası hakemli dergilerde yayınlanan makaleler

1. Aydoğdu H, Keskin D, **Baran E.T**, Tezcaner A. Pullulan Microcarriers for Bone Tissue Regeneration. Materials Science and Engineering: C 63 (2016) 439–449. I.F: 3.08.

2. Tezcaner A, Keskin D, **Baran E.T**. Nanoparticles Based on Plasma Proteins for Drug and Gene Delivery Applications. Current Pharmaceutical Design (2016) DOI: 10.2174/1381612822666160209152446. I.F: 3.45

3. Sayın E, **Baran E.T**, Hasirci V. Osteogenic differentiation of adipose stem cell guidance on high and low aspect ratio micropatterns. Journal of Biomaterials Science: Polymer Edition (2015) DOI: 10.1080/09205063.2015.1100494. IF: 1.64.
4. **Baran E.T**, Pirraco R.P, Cerqueira M.T, Marques A.P, Retolaza A, Merino S, Neves N.M, Reis R.L. Depth (Z-axis) control of cell morphologies on micropatterned surfaces. Journal of Bioactive and Compatible Polymers, (2015) DOI: 10.1177/0883911515580354 1-13. IF: 2.50.
5. Balmayor E.R, **Baran E.T**, Unger M, Marques A.P, Azevedo H.S, Reis R.L. Presence of starch enhances in vitro biodegradation and biocompatibility of a gentamicin delivery formulation. Journal of Biomedical Materials Research B: Applied Biomaterials (2015) 103;8:1610-1620 IF: 2.75.
6. Sayın E, **Baran E.T**, Hasirci V. Protein-based materials in load bearing tissue engineering applications. Regenerative Medicine-Future Medicine. 9 (2014) 687–701. IF: 3.50.
7. Mendes A.C, **Baran E.T**, Reis R.L, Azevedo H.S. Self-assembly in nature: using the principles nature to create artificial versions of life forms. Nanomedicine and Nanobiotechnology 5 (2013) 582-612. IF: 4.23.
8. Mendes A.C, **Baran E.T**, Reis R.L, Azevedo H.S. Fabrication of phospholipid–xanthan microcapsules by combining microfluidics with self-assembly. Acta Biomaterialia 9 (2013) 6675-6685. IF: 5.68.
9. Mendes A.C, **Baran E.T**, Reis R.L, Azevedo H.S. Microfluidics fabrication of Self-Assembled Peptide-polysaccharide microcapsules as 3D environments for cell culture and therapy. Biomacromolecules 13 (2012) 4039-4048. IF: 5.78.
10. **Baran E.T**, Tuzlakoglu K, Mano J.F, Reis R.L. Enzymatic degradation behavior and cytocompatibility of silk fibroin-starch-chitosan conjugate membranes. Materials Science and Engineering: C 32 (2012) 1314-1322. IF: 3.08.
11. Balmayor E.R, **Baran E.T**, Azevedo H.S, Reis R.L. Injectable biodegradable starch/chitosan delivery system for the sustained release of gentamicin to treat bone infections. Carbohydrate Polymers 87 (2012) 32-39. IF: 3.91.
12. Mendes A.C, **Baran E.T**, Azevedo H.S, Pereira R.C, Reis R.L. Encapsulation and Survival of a Chondrocyte Cell Line within Xanthan gum derivative. Macromolecular Bioscience, 12 (2012). 350-359. IF: 3.65.
13. Mendes A.C, **Baran E.T**, Nunes C, Coimbra M.A, Azevedo H.S, Reis R.L. Palmitoylation of xanthan polysaccharide for self-assembly microcapsule formation and encapsulation of cells in physiological conditions. Soft Matter 7 (2011) 9647-9658. IF: 4.15.
14. Brunner C.T, **Baran E.T**, Pinho E.D, Reis R.L, Neves N. Performance of biodegradable microcapsules of poly(butylene succinate), poly(butylene succinate-co-adipate) and poly(butylenes terephthalate-co-adipate) as drug encapsulation systems. Colloids and Surfaces B: Biointerfaces, 84 (2011) 498-507. IF: 4.28.
15. **Baran E.T**, Tuzlakoglu K, Salgado A, Reis R.L. Microchannel-patterned and heparin micro-contact-printed biodegradable composite membranes for tissue-engineering applications. Journal of Tissue

Engineering and Regenerative Medicine 5 (2011) 108-114. *IF: 4.42.*

16. Leonor I.B, **Baran E.T**, Kawashita M, Reis R.L, T. Kokubo, T.N. Growth of a bonelike apatite on chitosan microparticles after a calcium silicate treatment. Acta Biomaterialia, 4 (2008) 1349-1359. *IF: 5.68.*

17. **Baran E.T**, Jayakumar R, Mano J.F, Reis R.L. Enzymatic degradation behaviour of starch conjugated phosphorylated chitosan. Advanced Material Forum, 514 (2006) 995-999. *IF: 0.40.*

18. **Baran E.T**, Mano J.F, Reis R.L, Starch-chitosan hydrogels prepared by reductive alkylation crosslinking. Journal of Materials Science: Materials in Medicine, 15 (2004) 759-765. *IF: 2.58.*

19. **Baran E.T**, Tuzlakoğlu K, Salgado A, Reis R.L. Multichannel mould processing of 3D structures from porous coralline hydroxyapatite granules and chitosan support material for tissue regeneration/engineering. Journal of Materials Science: Materials in Medicine, 15 (2004)161-165. *IF: 2.58.*

20. Malafaya P. B, Silva G.A, **Baran E.T**, Reis R.L. Drug delivery therapies II; Strategies for delivering bone regenerating factors. Current Opinion in Solid State and Materials Science, (2002) 6/4, 297-312. *IF: 6.23.*

21. Malafaya P.B, Silva G.A, **Baran E.T**, Reis R.L. Drug delivery therapies I; General trends and its importance on bone tissue engineering applications. Current Opinion in Solid State and Materials Science, (2002) 6/4,283-295. *IF: 6.23.*

22. **Baran E.T**, Özer N, and Hasirci V. Solid-phase enzyme modification via affinity chromatography. Journal of Chromatography B, 794, (2003) 311-322. *IF: 2.70.*

23. **Baran E.T**, Özer N, Hasirci V. In vivo half-life of nanoencapsulated L-asparaginase. Journal of Materials Science: Materials in Medicine, 13 (2002) 12, 1113-1121. *IF: 2.58.*

24. **Baran E.T**, Özer N, Hasirci V. Poly(hydroxy-butyrates-hydroxy-valerate) nanocapsules as enzyme carriers for cancer therapy: an in vitro study. Journal of Microencapsulation, 19 (2002) 3, 363-376. *IF: 1.58.*

25. Arica M.Y, **Baran T**, Denizli A. Beta-galactosidase immobilization into poly(hydroxyethylmethacrylate) membranes and performance in a continuous system. Journal of Applied Polymer Science, 72 (1999) 10, 1367-1373. *IF: 1.76.*

26. Arica M.Y, Denizli A, **Baran T**, Hasirci V. Dye derived and metal incorporated affinity poly(2-hydroxyethyl methacrylate) membranes for use in enzyme immobilization. Polymer International, 46 (1998) 345-352. *IF: 2.40.*

27. **Baran T**, Arica Y, Denizli A, Hasirci V. Comparison of beta-galactosidase immobilization and adsorption in/on poly(hydroxyethyl methacrylate) membranes. Polymer International 44 (1997) 530-536. *IF: 2.40.*

7.2. Uluslar arası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceeding) basılan bildiriler.

1. Komez A, **Baran E.T**, Hasirci V. Construction of a Retina Substitute by Using Tissue Engineering Approach. EWAP 2015, Antalya, Turkey, November 2015, Oral presentation, sayfa187.
2. Sayin E, Rodríguez-Cabello J.C, **Baran E.T**, Hasirci V. Contribution of a Bioactive Elastin Like Protein to 2D Collagen-Fibroin Scaffolds. EWAP 2015, Antalya, Turkey, November 2015, Oral presentation, sayfa 186.
3. Aydogdu H, Keskin D, **Baran E.T**, Tezcaner A. Development of Injectable Cell Carrier Systems for Bone Tissue Engineering. 21st International Biomedical Science and Technology Symposium, Antalya, Turkey, November 2015, Poster presentation, sayfa 181.
4. **Baran E.T**, Komez A, Sayin E, Hasirci N, Hasirci V. Guided tissue regeneration by micro and nanofabricated scaffolds. 21st International Biomedical Science and Technology Symposium, Antalya, Turkey, November 2015, Oral presentation, sayfa 65.
5. Sayin E, Rashid R.H, Elsheikh A, Rodríguez-Cabello J.C, **Baran E.T**, Hasirci V. Effect of Osteogenic Growth of Adipose Derived Stem Cells And Human Osteoblastson the Mechanical Properties of Protein Based Films with Microchannels. 27th European Conference on Biomaterials, Krakow, Poland, 30th August – 3rd September 2015. Oral presentation sayfa 202.
6. **Baran E. T**, Hasirci V. Gel-in-Gel extrusion of cells for soft and hard tissue construction. European Society for Biomaterials 26th Annual Conference, Liverpool, 31 Agust-3rd September 2014. Poster presentation, sayfa P180.
7. Sayin E, **Baran E. T**, Hasirci V. Osteogenic Activity of Adipose Derived Stem Cells on Micropatterned Collagen-Fibroin Blend Films. European Society for Biomaterials 26th Annual Conference, Liverpool, 31 Agust-3rd September 2014. Oral presentation, sayfa 3-1.
8. Aydoğdu H, Keskin D, Tezcaner A, **Baran E.T**. Mineralized Porous Pullulan Microcarriers for Bone Tissue Engineering. European Society for Biomaterials 26th Annual Conference, Liverpool, 31 Agust-3rd September 2014. Poster presentation, sayfa P360.
9. Kömez A., **Baran E. T**, Hasirci N, Hasirci V. Vascular Network Generation in Hyaluronic Acid by Micromolding and Photoimmobilization of Fibronectin. European Society for Biomaterials 26th Annual Conference, Liverpool, 31 Agust-3rd September 2014. Oral presentation, sayfa 17-1.
10. Aydogdu H, **Baran E.T**, Keskin D, Tezcaner A. Pullulan/Gelatin Microspheres for Chondrogenic Regeneration. BioTech 2014 and 6th Czech-Swiss symposium with exhibition. June11-14, 2014 Prague, Czech Republic. Poster Presentation, sayfa177.
11. Sayın E, **Baran E.T**, Hasirci V. Micropatterned Collagen-Fibroin Films For Guidance Of Adipose Derived Stem Cells.19th International BIOMED Sympossium, Kuşadası, İzmir, Turkey, 12-15 November 2013. Oral presentation, sayfa 50.
12. Aydoğdu H, Keskin D, **Baran E.T**, Tezcaner A. Porous pullulan microcarriers for osteochondral tissue regeneration 19th International BIOMED Sympossium, Kuşadası, İzmir, Turkey, 12-15 November 2013. Oral presentation, sayfa 61.
13. Sayın E, **Baran E.T**, Hasirci V. Physical Characterization of Micropatterned Collagen Films. Annual Tissue Engineering and Regenerative Medicine International Society-TERMIS EU Conference, İstanbul, Turkey, 17-20 June 2013. Oral presentation, sayfa 218.
14. Mendes A.C, **Baran E.T**, Reis R.L, Azevedo H.S. Microfluidic encapsulation of cells into self-assembling xanthan-phospolipid amphiphile for cell therapy. XXXVIII Congress of the European Society for Artificial Organs (ESAO 2011) and IV Biennial Congress of the International Federation on Artificial Organs (IFAO 2011) Porto, Portugal, 9-12th October 2011. Oral presentation, sayfa 623.
15. Mendes A. C, **Baran E.T**, Azevedo H. S., Reis R. L. Hydrophobization of xanthan polysaccharide as a self-assembled matrix for cell-based therapies. 2nd TOPEA MEETING, Barcelona, Spain, 30 June -1 July 2011. Oral presentation, sayfa12.
16. Mendes A.C, **Baran E.T**, Reis R. L, Azevedo H. S. Microfluidics fabrication of self-assembled polysaccharide-peptide microcapsules for cell therapy. Annual Tissue Engineering and Regenerative Medicine International Society-TERMIS-EU Meeting, Granada, Spain, 7-10 June 2011. Oral presentation, sayfa 2.08.
17. Mendes A.C, **Baran E.T**, Azevedo H.S, Reis R.L. Synthesis and optimization of Palmitoyl

- Xanthan for cell encapsulation. TERMIS-NA, Orlando, Florida, USA, December 5-8, 2010. Oral presentation, sayfa 136: <http://www.termis.org/docs/abstracts/am2010/136.pdf>.
18. Mendes AC, **Baran E.T**, Azevedo H.S, Pereira R, Reis R.L. Encapsulation and Survival of a Chondrocytic Cell Line within a Polysaccharide. 34th Society for Biomaterials 2010 Annual Meeting and Exposition: New Applications and Technologies, Seattle (Washington), USA, 21-24 April 2010. Oral presentation sayfa 542.
 19. **Baran E.T**, Tuzlakoglu K, Mano J.F, Reis R.L. Conjugation of fibroin and starch to chitosan for increasing cell proliferation capacity. Annual Tissue Engineering and Regenerative Medicine International Society-TERMIS-EU Meeting, Porto, Portugal, June 2008. Poster presentation, sayfa 830.
 20. Brunner C.T, **Baran E.T**, Reis R.L, Neves N.M. All-trans retinoic acid (atRA) release from biodegradable polyester microcapsules. Annual Tissue Engineering and Regenerative Medicine International Society-TERMIS-EU Meeting, Porto, Portugal, June 2008. Poster presentation, sayfa 806.
 21. Balmayor R.E, **Baran E.T**, Azevedo H.S, Reis R.L. Highly biodegradable starch-conjugated chitosan microspheres as carriers for controlled release of aminoglycosides antibiotic drugs. 8th World Biomaterials Congress, Amsterdam, Netherlands, May 2008. Oral presentation (O87), sayfa 499.
 22. **Baran E.T**, Pirraco R.P, Lee H.H, Marques A.P, Neves N, Reis R.L. Selective cell responses to nanopatterned PCL surfaces with various size and motifs. 4th European symposium on biopolymers on "Molecular basis, production and applications of biopolymers in biotechnology, biomedicine and nanobiomaterials", Kuşadası, Turkey, October 2007. Oral Presentation sayfa 47.
 23. **Baran E.T**, Jayakumar R, Mano J.F, Reis R.L. Enzymatic degradation properties of starch conjugated phosphorylated and thiolated chitosan. 19th European Conference on Biomaterials, Sorrento, Italy, 2005. Poster Presentation, sayfa 213.
 24. Leonor I.B, Malafaya P.B, **Baran E.T**, Kawashita M, Reis R.L, Kokubo T and Nakamura T. Growth of a Bonelike Apatite Layer on Chitosan Microparticles After a Calcium Silicate Treatment. 7th World Biomaterials Congress, Sydney, Australia, May 2004. Poster presentation, sayfa 1792.
 25. **Baran E.T**, Tuzlakoglu K., Salgado A., Reis R.L. Production of micro-capillary patterned lamellar scaffolds for tissue engineering by using pressure micro moulding imprinting technology. 7th World Biomaterials Congress, Sydney, Australia, May 2004. Poster presentation, sayfa 1376.
 26. E.T. Baran, R.L. Reis. Effect of α -amylase on drug release from Starch-Chitosan Conjugated Nanoparticles. 18th European Conference on Biomaterials, October 1-4, 2003, Stuttgart, Germany. Poster presentation, sayfa 106.
 27. **Baran E.T**, Reis R.L. Development and in vitro evaluation of chitosan and soluble starch-chitosan nano-microparticles to be used as drug delivery vectors. 29th Annual meeting of Society for Biomaterials, Reno, USA, April 2003. Poster presentation, sayfa 549.
 28. Malafaya PB, **Baran E.T**, Tuzlakoglu K, da Silva RMP and Reis RL. Polymeric and composite constructs from marine origin for bone regeneration. NATO/ASI on Learning from Nature How to Design New Implantable Biomaterials: From Biomineralization Fundamentals to Biomimetic Materials and Processing Routes, Alvor, Portugal, October 2003. Poster Presentation, sayfa 61.
 29. Tuzlakoglu K, **Baran E.T**, Coutinho O.P, Reis R.L. In Vitro Evaluation of Microporous Coralline-Chitosan Composite Materials For Bone Tissue Engineering. NATO/ASI on Learning from Nature How to Design New Implantable Biomaterials: From Biomineralization Fundamentals to Biomimetic Materials and Processing Routes. Poster presentation, sayfa 48.
 30. Mano J.F, Silva R.M, Tuzlakoglu K, **Baran E.T**, Silva S.S, Reis R.L. Mechanical behaviour in simulated physiological conditions of chitosan and soluble starch-chitosan-based membranes and fibres for biomedical applications. III Congreso Internacional de Biomateriales Biomat'03 Havana, Cuba from March 25-28, 2003. Poster presentation, sayfa 30.
 31. **Baran E.T**, N. Özer, Hasirci V. In Vivo half-life of nanoencapsulated asparaginase. 17th European Conference on Biomaterials, Barcelona, Spain, September 2002. Oral presentation, sayfa T151.

32. **Baran E.T**, N. Özer, Hasırcı V. Poly(hydroxybutyrate-co-hydroxyvalerate) Nanocapsules as carriers of L-asparaginase. The Eight International Symposium on Biomedical Science and Technology, Ankara, Turkey, September 2001. Poster presentation, sayfa 23.
33. **Baran, E.T**, Arıca, M.Y, Denizli. A, Hasırcı, V. Immobilization of β -Galactosidase by Entrapment and Adsorption on PHEMA Membranes. The Fourth International Symposium on Biomedical Science and Technology, İstanbul, Turkey, September 1997. Poster presentation sayfa 31-32.

7.3. Yazılan Uluslar arası kitaplar veya kitaplarda bölümler.

1. **Baran E.T**, Keskin D.S, Tezcaner A. Nanomaterial cell interaction in tissue engineering. Cell Material Interface: Advances in Tissue Engineering, Biosensor, Implant, and Imaging Technologies. Eds. Engin Vrana. C.M. CRC Press, Boca Raton, USA. (2015) 51-77.
2. M. Ermis, **Baran E.T**, Dursun T, Antmen E, Hasırcı V. Bio-inspired Presentation of Physical Cues: From Bio-inspired Materials for Biomedical Engineering. Eds. Brennan A.B and Kirschner. C.M. John Wiley & Sons, Inc. USA (2013) 59-77.
3. **Baran E.T**, Reis R.L. Particles for controlled drug delivery. *Handbook of Natural-based Polymers for Biomedical Applications*. Eds. Reis R.L, Neves N.M, Mano J.F, Gomes M.E, Marques A.P, Azevedo H.S. Woodhead Publishing Ltd, Cambridge, UK, (2008) 597-623.
4. **Baran E.T**, Reis R.L. Biomimetic Approach to Drug Delivery and Optimization of Nano Carrier Systems. *Nano-Encapsulation Technologies: Frontiers of Nanotheraphy*. Eds. Mozafari M.R, Springer Pub. Co. Ltd. Netherlands, (2005) 75-86.
5. **Baran E.T**, Reis R.L. Use of Chemically Modified Chitosan and other natural-origin polymers tissue engineering and drug delivery. *Biodegradable Systems in Tissue Engineering and Regenerative Medicine*. Eds. Reis R.L and Roman J.S, CRC Press, Boca Raton, USA, (2005), 325-335.
6. Mozafari, M.R, **Baran E.T**, Yurdugul S, Omri A. Liposome-based carrier systems. In: *Nanoliposomes: From Fundamentals to Recent Developments*. Ed. by Mozafari M.R and Mortazavi S.M.: Trafford Pub. Ltd, Crewe, UK (2005) 79-87.

7.4. Ulusal hakemli dergilerde yayınlanan makaleler

1. **Baran E.T**, Tezcaner A. Doku Mühendisliğinde Mikrotaşıyıcı Sistemler ve Uygulamaları. Türkiye Klinikleri J Med Oncol-Special Topics 2015;8(2):15-9.
2. Tezcaner A, **Baran E.T**. Trakea Doku Mühendisliği. Türkiye Klinikleri J Med Oncol-Special Topics 2015;8(2):104-8.
3. Tezcaner A, **Baran E.T**. Kornea Doku Mühendisliği. Türkiye Klinikleri J Med Oncol-Special Topics 2015;8(2):109-112.

7.5. Ulusal bilimsel toplantılarda sunulan bildiri kitabında basılan bildiriler

1. **Baran E.T.**, Pashkuleva I, Oliveira J.T, Reis R. L. Photo-crosslinked peptide-carboxymethyl chitosan conjugates for higher cell proliferation and viability. 2nd Scientific Meeting of the Institute For Biotechnology and Bioengineering, Braga, Portugal, October 23-24, 2010. Poster presentation sayfa130.
2. Mendes A.C, **Baran E.T**, Azevedo H.S, Reis R.L. Synthesis of palmitoyl xanthan for microencapsulation of chondrogenic cells by self-assembly process in physiological conditions. 2nd Scientific Meeting of the Institute For Biotechnology and Bioengineering, Braga, Portugal, October 23-24, 2010. Poster presentation sayfa128.

3. **Baran E.T**, Pirraco R, Cerqueira M.T, Marques A.P, Retolaza A, Merino S, Neves N, Reis R.L. Response of bone forming cells to micro and nano topographical cues. 1st Scientific Meeting of the Institute For Biotechnology and Bioengineering. Faro, Portugal, May 15-16, 2009. Poster presentation sayfa HB 6.
4. **Baran E.T**, Adalı O, Arıca M.Y, Hasırcı V. Immobilization of β -galactosidase on pHEMA microspheres. Third Second Symposium on Biomedical Science and Technology, *BIYOMED 2*, Ankara, Turkey, 21-23 Eylül,1995. Poster presentation psayfa85-86.

7.6 Diğer Yayınlar

Uluslararası patent: Baran E.T, Mendes A.C, Azevedo H.S, Reis R.L. **WO/2012/099482, PT 105489** “The method and system of microcapsule production for Tissue Engineering and Cell Based Technologies&Therapies” (2012).

8.Projeler

Uluslararası Projeler

Avrupa Topluluğu (EU) FP5-Algisorb: Biodegradable bone forming material of algal origin, enriched with bone growth factors. European Union FP5-Life quality project, 2001-2002 (Araştırmacı).

Avrupa Topluluğu (EU) FP6-Hipocrates: A hybrid approach and cartilage tissue engineering using natural origin scaffolds, progenitor cells and growth factors. European Union FP6-Specific targeted research project, 2004-2008) (Araştırmacı).

Avrupa Topluluğu (EU) FP6-Proteus: Conversion of natural marine resources and residues into highly added value products for industrial application. European Union FP6-Interrep III A, 2006-2008 (Araştırmacı).

Avrupa Topluluğu (EU) FP7-Find and Bind: Mastering sweet cell-instructive biosystems by copycat nano-interaction of cells with natural surfaces for biotechnological applications" European Union FP7-NMP-SMALL-2, 2010-2011 (Araştırmacı).

Ulusal Projeler

2005-2008: Portekiz FCT (Fundação para a Ciência e a Tecnologia-Portugal) R&D project, Smart Scaff: Polymeric 3D scaffolds with tailor made surfaces for bone tissue engineering. POCI/BTA-BCM/60677/2004, 2005-2008 (Araştırmacı).

2009-2011: Portekiz FCT (Fundação para a Ciência e a Tecnologia-Portugal) Osteography- 3D patterned co-culture system to develop vascularized engineered bone. PTDC/EME-MFE/2008, 2009-2011 (Araştırmacı).

2012-2014: TÜBİTAK 2232-Yurda Dönüş Programı (Tersine Beyin Göçünü Özendirme Programı). ‘Vasküler doku mühendisliği için self-assembly hidrojellerin hızlı prototipleme ile kullanımı’ (Yürütücü).

2014-2017: TÜBİTAK 1003–Öncelikli Alanlar Ar-Ge Projeleri Destekleme Programı. Doku mühendisliği yöntemi ile hastaya özel ortopedik implant tasarımı ve üretimi (Araştırmacı).

9.İdari Görevler

10.Bilimsel Kuruluşlara Üyelikleri

Turkish Biomaterials and Tissue Engineering Society (BTES).

11.Ödüller

2001: Doktora sonrası bursu, European project Craft Algisorb-Algea origin Bone forming materials enriched with growth factors”, 3Bs Research Group, Polymer Engineering department, University of Minho, Guimarães-Portugal.

2002: Doktora sonrası Araştırma bursu, the Portuguese Foundation for Science and Technology (SFRH/BPD/10874/2002).

2005: Konferans katılım desteği, Portuguese Foundation for Science and Technology to attend Society for Biomaterials 30th Annual Meeting and Exposition: New Applications and Technologies, Memphis, USA, 2005.

2006: Doktora Sonrası Araştırma bursu, the Portuguese Foundation for Science and Technology (SFRH/BPD/17595/2004).

2009: Doktora Sonrası Araştırma bursu, European Union FP7-NMP-SMALL-2, Find and Bind Project.

2012: TÜBİTAK 2232 Yurda DönüşBursu 'Bir araya gelebilir jeller kullanılarak vasküler dokuların hızlı prototipleme yöntemi ile oluşturulması'.

12.Son iki yılda verdiği lisans ve lisansüstü düzeyindeki dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	

* İşaretili dersler, yüksek lisans dersleridir.