

CURRICULUM VITAE



Personal Information

Name : Gamze Torun Köse
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Education

Postdoc	2002-2003	Middle East Technical University Graduate School of Natural and Applied Sciences Department of Biotechnology, Ankara, TR
Predoctoral Fellow	1998-1999	University of Texas, MD Anderson Cancer Center, Section of Immunobiology and Fellow Drug Carriers, Houston, Texas, USA
PhD	1996- 2002	“Bone tissue generation on biodegradable polymeric scaffold”, Middle East Technical University Graduate School of Natural and Applied Sciences Department of Biotechnology, Ankara, TR
MSc (Honours)	1994-1996	“Changing the liposomal surface properties by means of low molecular weight heparin”, Middle East Technical University (METU) Graduate School of Natural and Applied Sciences, Department of Biotechnology, Ankara, TR
BSc (Honours)	1990-1994	Middle East Technical University (METU) Faculty of Arts and Sciences, Department of Biology, Ankara, TR

Academic Experience

1. Prof., Faculty of Engineering and Architecture, Department of Genetics and Bioengineering, Yeditepe University, Istanbul, TR 2012 +
2. Visiting Scientist, University of Texas, MD Anderson Cancer Center, Division of Cancer Medicine, Department of Experimental Therapeutics, Houston, Texas, USA 2008

3. Member of the Foundation Committee of Turkish Biomaterials and Tissue Engineering Society 2008 +
4. Associate Prof., Faculty of Engineering and Architecture, Department of Genetics and Bioengineering, Yeditepe University, Istanbul, TR 2006-2012
5. Assistant Prof., Faculty of Engineering and Architecture, Department of Genetics and Bioengineering (the set-up of Biomaterials, Genetics and Tissue Engineering Laboratories), Yeditepe University, Istanbul, TR 2004-2006
6. Assistant Prof., Faculty of Pharmacy, Yeditepe University, Istanbul, TR 2003-2004
7. Research and Teaching Assistant, Middle East Technical University, Department of Biology, Ankara, TR 1994- 2002

Administrative Experience

1. Yeditepe University Biotechnology Club Advisor 2023+.
2. Elected member of Yeditepe University Faculty of Engineering Disciplinary Board 2024+.
3. Elected member of Yeditepe University Faculty of Engineering Executive Board 2024+.
4. Elected member of Yeditepe University Faculty of Engineering Board 2010-2012; 2014+.
5. Elected member of Yeditepe University Ethical Board of Animals 2006 – 2007; 2016+
6. The Scientific and Technological Research Council of Turkey (TÜBİTAK) Advisory Panel Member on Biomaterials 2015-2016
7. Yeditepe University Journal of Corporate Communications Advisory Committee Member Representing Faculty of Engineering 2012-2015
8. Vice chair of Department of Genetics and Bioengineering, Yeditepe University, Istanbul, March 2010+
9. Member of the Commission of Departmental Lecture Programming 2008+
10. Elected member of Yeditepe University Faculty of Engineering and Architecture Executive Board 2008-2011
11. Elected member of the Faculty of Pharmacy Administrative Council 2003

Awards

1. Best Poster Award by the Biomed 2025-TR Scientific Committee. The poster entitled “Effects of Rosa Damascena-Derived Extracellular Vesicles on the Skin” by Ece Bayraktar and G.Torun Kose, 2025.

2. Third place in the Project Activities category in the Faculty of Engineering at the 13th Yeditepe University Academic Awards Ceremony in 2025.
3. Second place in the Educational Activities category and third place in the Project Activities category in the Faculty of Engineering at the 11th Yeditepe University Academic Awards Ceremony in 2023.
4. Best Oral Presentation Award by 19. Medical Surgery Endocrinology Scientific Committee. The presentation entitled “Production of Injectable Sizes of Micro Alginate Capsules for Parathyroid Cell Transplantation without Surgical Intervention” Ö.Karabıyık Acar, H.Başer, A.A.Tuncer, G.D.Nuzhetzadeh, M.Keğın, E.Hacıhasanoğlu, **G.T.Köse**, F.Şahin, E.Ayşan, Oct 2021.
5. Best PhD Thesis of the Year at Istanbul Technical University (ITU) Award for Görke Gürel Peközer, Assoc.Prof. Dr. Fatma Neşe Kök (Advisor), **Prof. Dr. Gamze Torun Köse** (Co-advisor), Dental stem cell mediated bone tissue engineering using porcine model, 2018.
6. Excellent Poster Award by the 2017 ISOMRM International Symposium of Materials on Regenerative Medicine Scientific Committee. The poster entitled “Bone tissue engineering potential of vasculogenesis inducing biphasic scaffold” by **G.Torun Köse**, Gorke Gurel Pekozer, Nergis Abay 2017.
7. Poster Award by the BIOMED 2017 Scientific Committee. The poster entitled “Potential Applications of PLLA:PBS Sponges in Neural Tissue Engineering” by İ.A.Kanneci-Altınışık, D.Yücel, F.N.Kök, **G.Torun Köse** 2017.
8. First place in the ranking of academic evaluation results of academic members of Yeditepe University, Faculty of Engineering, in 2017.
9. First place in the ranking of academic evaluation results of academic members of Yeditepe University, Faculty of Engineering, in 2016.
10. First place in the ranking of academic evaluation results of academic members of Yeditepe University, Faculty of Engineering, in 2015.
11. Best PhD Thesis of the Year at Istanbul Technical University (ITU) Award for Perihan Selcan Güngör Özkerim, Assoc.Prof. Dr. Fatma Neşe Kök (Advisor), **Prof. Dr. Gamze Torun Köse** (Co advisor), Design of Bioactive Scaffold System for Hard Tissue Engineering, 2014.
12. 35. National Turkish Plastic Reconstructive and Esthetic Surgery (TPRECD) Association Congress Specialist Research Competition Award 2. / Experimental 2013.
13. Feyzi Akkaya (FABED) Successful Young Scientist Award, “Bone Tissue Formation from Dental Pulp Stem Cells on PBS Scaffolds” 2011.
14. L’Oreal Turkey, 2011 Young Woman Scientist Award, “Nerve Regeneration on A System Consisting of PLGA tubes and Laminin-1-Collagen Nanofibers” 2011.

15. 20. National Electron Microscopy Congress (International Participation) “Prof.Dr. Türkan Erbenli Research Award” jury special award, 2011.
16. 32. National Turkish Plastic Reconstructive and Esthetic Surgery (TPRECD) Association Congress Assistant Abstract Competition Award / Experimental 2010.
17. 2008-2009 Academic year Middle East Technical University (METU) Best Thesis Award Winner as Ph.D. Thesis Co-Supervisor of Halime Kenar.
18. 2008-2009 Academic year Middle East Technical University (METU) Best Thesis Award Winner as Ph.D. Thesis Co-Supervisor of Deniz Yücel.
19. Best PhD Thesis of the Year at Middle East Technical University (METU) Award by the Prof. M. Parlar Foundation 2002.
20. Best MSc Thesis of the Year at Middle East Technical University (METU) Award by the Prof. M. Parlar Foundation 1997.
21. Best Poster Award by the BIOMED 2002 Scientific Committee. The poster entitled “Guided Tissue Engineering on Semisynthetic Polymer Surfaces” by H.Kenar, **G.T.Köse**, V.Hasırcı 2002.
22. ESB 2002 Young Scientist Fellowship Award by the European Society for Biomaterials 2002.

Patents/Applications

1. E.Can, G.Cemali, **G.Torun Köse**, Tissue Engineered Scaffold Production Procedure (European Patent), Application no: 16192013.7-1109, Patent no: **EP3153187**
2. A.C.Çalıkoğlu Koyuncu, D.Telci, **G.Torun Köse**, Method of Producing Nature Identical Cartilage Tissue Via Gene Delivery (European Patent), Application no: 18870535.4, Patent no: **EP25418.70**
3. Ö.Karabıyık Acar, B.Kayıtmazer, **G.Torun Köse**, Production and fabrication of tissue scaffolds with cell encapsulation capacity for tissue engineering using complex coacervation technique with chitosan (KT) and hyaluronic acid (HA) polymers (Description), 2017 (Application no 2017/13643, 15.09.2017) (European Patent), Application no: 2017/13643, Patent no: **11576-62363 P**
4. G.Gürel Peközer, N.Abay, **G.Torun Köse**, Design of PLGA polymer as a scaffold by wet spinning method at different concentrations and different water baths (TR Patent), Application no 2017/13470 TR, 13.09.2017.
5. E.İ.Bektaş Taş, G.Gürel Peközer, F.N.Kök, A.Ö.Aytekin, **G.Torun Köse**, The production method of cryogels from natural biomaterials and the use of these cryogels as soft tissue scaffolds or drug delivery systems, (Description), 2019 (Application no 2019/14116, 17.09.2019)

Thesis

1. **G.Köse**, Changing the liposomal surface properties by means of low molecular weight heparin, MSc. Thesis, Department of Biotechnology, M.E.T.U. 1996
2. **G.Köse**, Bone tissue generation on biodegradable polymeric scaffold, PhD. Thesis, Department of Biotechnology, M.E.T.U. 2002

Publications

1. Demirci, E.A., Önder, S., Acar, T., Sunar, S.Z., **Torun Köse, G***, KR12 peptide-modified ECM coating for enhanced osteogenic and antimicrobial activity of titanium surfaces, *Biomaterials Advances*, Volume 179, 214515, 2026
2. Aksu, D., Büyük, N.İ., Aksu, BÇ., Meriç, G., **Torun Köse, G***, Comparison of Different Bone Cement Formulations Containing Boron Derivatives, *Journal of Biomedical Materials Research- Part B Applied Biomaterials*, DOI: 10.1002/jbm.b.35640, 2025
3. Karabiyik Acar, Ö., Tuncer, A.A., Şahin, F., **Torun Köse, G.**, Aysan, E., Alginate-Based Cell Encapsulation Using Different Crosslinker Element, *Journal of Mechanics in Medicine and Biology*, 2025
4. Demirci, E.A., Önder, S., Acar, T., Büyük, N.İ., Sunar, S.Z., **Torun Köse, G***, Functionalization of titanium using KR-12 peptide: antibacterial and osteogenic properties, *Surface Innovations*, doi.org/10.1680/jsuin.24.00102, 2025
5. Karabiyik Acar, Bozdog, G., Hacıhasaoğlu, E., Tuncer, AA., Aysan, E., **Torun Köse, G***, Optimizing decellularization protocols for human thyroid tissues: a step towards tissue engineering and transplantation, *Biomedical Materials*, 19(4), 2024
6. Büyük, N.İ., **Torun Köse, G***, Osteogenic and angiogenic dual small molecule loaded chitosan nanoparticles for vascularized bone regeneration, *Polymers for Advanced Technologies*, DOI: 10.1002/pat.6476, 35(6), 2024
7. Akin, I., Altan, D., Bektas, El., **Kose, GT.**, Goller, G., Characterization of spark plasma sintered graphene reinforced zirconia toughened alumina (ZTA) composites, *Journal of the Australian Ceramic Society*, DOI: 10.1007/s41779-023-00974-9, 60(1), 25-33, 2024
8. Karabiyik Acar, Ö., Nozhatzadeh, G.D., Tuncer, A., **Torun Köse, G.**, Aysan, E., Effect of Different Sodium Alginate Compositions on 3D Microcapsule Structure and Cell Viability, *Journal of Mechanics in Medicine and Biology*, DOI 10.1142/S0219519423500483, 24(1), 2350048, 2024
9. Karabiyik Acar, Ö., Tuncer, A., Sahin, F., **Torun Köse, G.**, Aysan, E., Alginate-based cell encapsulation using different crosslinker elements, *Journal of Mechanics in Medicine and Biology*, 2450031, 2024

10. Karabiyik Acar, Ö., Başoğlu, H., Keğin, M., Nozhatzadeh, G.D., Hacıhasaoğlu, E., Tuncer, A., Sahin, F., **Torun Köse, G.**, Aysan, E., Microencapsulation of parathyroid cells via electric field and non-surgical transplantation approach, *Journal of Endocrinological Investigation*, 10.1007/s40618-023-02075-7, 46(11), 2257-2267, 2023
11. Cemali, G., Okutan, B., Can, E., and **Torun Köse, G.***, In vitro investigation of poly(propylene fumarate) cured with phosphonic acid based monomers as scaffolds for bone tissue engineering, *Journal of Polymer Research*, DOI 10.1007/s10965-023-03713-7, 30(9), 2023
12. Duru, İ., Büyük, N.İ., **Torun Köse, G.**, Widder Marques, D., Bruce, K.A., Martin, J.R.*, Ege, D.*, Incorporating the antioxidant Fullerenol into calcium phosphate bone cements increases cellular osteogenesis without compromising physical cement characteristics, *Advanced Engineering Materials*, DOI 10.1002/adem.202300301, 25(17), 2023
13. Sabouni, K., Ozturk, Y., Kacar, E., **Kose, GT.**, Kok, FN., Kazmanli, MK., Urgen, MK., Onder, S., Surface analysis of (Ti,Mg)N coated bone fixation devices following the rabbit femur surgery, *Bio-Medical Materials and Engineering*, 34(5), 459 – 472, 2023
14. Büyük, N.İ., Aksu, D., **Torun Köse, G.***, Effect of different pore sizes of 3D printed PLA-based scaffold in bone tissue engineering, *International Journal of Polymeric Materials and Polymeric Biomaterials*, 72(13), 1021-1031, doi: 10.1080/00914037.2022.2075869, 2023
15. Karabiyik Acar, Ö., Nozhatzadeh, G.D., Tuncer, A., **Torun Köse, G.**, Hacıhasaoğlu, E., Sahin, F., Aysan, E., Production of parathyroid-like cells from thyroid stem cells in co-culture environment, *Medicine*, 101(48), pp. E32009, 2022
16. Erçal, P., Çayır, F., Gürel Peközer, G., **Torun Köse, G.**, Osteo/odontogenic differentiation analysis of dental stem cells from tooth germ, apical papilla, and dental follicle, *Oral Science International*, <https://doi.org/10.1002/osi2.1136>, 19(3), pp. 180–192, 2022
17. Büyük, N.İ., Tüfekçi, K., Cumbul, A., Aysan, E., **Torun Köse, G.***, A novel method for providing scaffold: decellularization of parathyroid capsule, *Journal of Biomaterials Applications*, 36(7), 1201-1212, 2022
18. Beker, M.Ç., Beker, M., Çağlayan, A.B., Bolat, B., Kılıç, Ü., **Torun Köse, G.**, Kılıç, E., Striatal dopaminergic neurons as a potential target for GDNF based ischemic stroke therapy, *Turkish Journal of Medical Sciences*, 52(1), 248-257, 2022
19. Bektas, E.I., Gurel Pekozer, G., Kok, F.N., **Torun Köse, G.***, Evaluation of natural gum-based cryogels for soft tissue engineering, *Carbohydrate Polymers*, 271, 10.1016/j.carbpol.2021.118407, 2021
20. Karabiyik Acar, Ö., Bedir, S., Kayıtmazer, A.B., **Torun Köse, G.***, Chondro-inductive hyaluronic acid/chitosan coacervate-based scaffolds for cartilage tissue engineering, *International Journal of Biological Macromolecules*, 188, 300-312, 2021
21. Ramazanoglu, M., Moest, T., Siraneci Ercal, P., Polyviou, Z., Herrmann, K., Gurel Pekozer, G., Molenberg, A., Lutz, R., **Torun Köse, G.**, Neukam, F.W., Schlegel, K.A., The effect of polyethylenglycol gel on the delivery and osteogenic differentiation of homologous tooth

- germ-derived stem cells in a porcine model, *Clinical Oral Investigation*, 25(5), 3043–3057, 2021
22. Gurel Pekozer, G., Abay Akar, N., Cumbul, A., Beyzadeoglu, T., **Torun Köse, G.***, Investigation of Vasculogenesis Inducing Biphasic Scaffolds for Bone Tissue Engineering, *ACS Biomaterials Science and Engineering*, 7(4), pp. 1526–1538, 2021
 23. Sabouni, K., Ozturk, Y., Kacar, E., Mutlu, H.S., Solakoglu, S., **Torun Köse, G.**, Kok, F.N., Kazmanli, M.K., Urgan, K.M., Onder, S., Assessment of Bone Healing Using (Ti,Mg)N Thin Film Coated Plates and Screws: Rabbit Femur Model, *Journal of Biomedical Materials Research: Part B - Applied Biomaterials*, 109(2), 227-237, 2021
 24. Cemali, G., Aruh, A., **Torun Köse, G.**, Can, E., Biodegradable Polymeric Networks of Poly(propylene fumarate) and Phosphonic Acid Based Monomers, *Polymer International*, 69(12), 1283-1296, 2020
 25. Beker, M., Caglayan, A.B., Beker, M.C., Altunay, S., Karacay, R., Dalay, A., Altintas, M.O., **Torun Köse, G.**, Hermann, D.M., Kilic, E., Lentivirally administered glial cell line-derived neurotrophic factor promotes post-ischemic neurological recovery, brain remodeling and contralesional pyramidal tract plasticity by regulating axonal growth inhibitors and guidance proteins, *Experimental Neurology*, 331, 113364, 2020
 26. Calikoglu-Koyuncu, A.C., Nayman, H., Telci, D., **Torun Köse, G.***, Tissue Transglutaminase_Variant 2-Transduced Mesenchymal Stem Cells and Their Chondrogenic Potential, *Biotechnology and Bioengineering*, 117 (6), 1839-1852, 2020
 27. Atasoy-Zeybek, A., Ivkovic, A., Beyzadeoglu, T., Ona, A., Evans, C.H., **Torun Köse, G.***, Paracrine effects of living human bone particles on the osteogenic differentiation of mesenchymal stem cells, *European Cells and Materials*, 38, 14-22, 2019
 28. Kenar, H., Ozdogan, C.Y., Dumlu, C., Dogere, E., **Torun Köse, G.**, Hasirci, V., Microfibrous scaffolds from poly(L-lactide-co-ε-caprolactone) blended with xeno-free collagen/hyaluronic acid for improvement of vascularization in tissue engineering applications, *Materials Science & Engineering C*, 97, 31-44, 2019
 29. Abay Akar, N., Gürel Peközer, G., **Torun Köse, G.***, Fibrous bone tissue engineering scaffolds prepared by wet spinning of PLGA, *Turkish Journal of Biology*, 43(4), 235-245, 2019
 30. Erkal Ilhan, S., Kurkcuoglu, O., Inan, T., Guner, O.Z., Dalgakıran, D., Okutan, B., **Torun Köse, G.**, Kirmizi, A., Okçu Heper, A., Gurses, O., Guner, F.S., Preparation and Determination of In Vivo and In Vitro Performance of Doxycycline-Imprinted Contact Lenses for Corneal Neovascularization Treatment, *Journal of the Turkish Chemical Society, Section A: Chemistry (JOTCSA)*, 5(3), 1185-1192, 2018
 31. Kulan, P., Karabiyik, O., **Torun Köse, G.**, Kargul, B., The Effect of Accelerated Mineral Trioxide Aggregate on Odontoblastic Differentiation in Dental Pulp Stem Cell Niches, *International Endodontic Journal*, 51(7), 758-766, 2018

32. Aydogan, D.T., Muhaffel, F., Acar, O.K., Topcuoglu, E.N., Kulekci, H.G., **Torun Köse, G.**, Baydogan, M., Cimenoglu, H., Surface modification of Ti6Al4V by micro-arc oxidation in AgC₂H₃O₂-containing electrolyte, *Surface Innovations*, 6(4-5), 277-285, 2018
33. Acar, O.K., Kayitmazer, A.B., **Torun Köse, G.***, Hyaluronic Acid/Chitosan Coacervate-Based Scaffolds, *Biomacromolecules*, 19(4), 1198-1211, 2018
34. Pekozer, G.G., Ramazanoglu, M., Schlegel, K.A., Kok, F.N., **Torun Köse, G.***, Role of STRO-1 sorting of porcine dental germ stem cells in dental stem cell-mediated bone tissue engineering, *Artificial Cells, Nanomedicine and Biotechnology*, 46(3), 607-618, 2018
35. Aydogan, D.T., Muhaffel, F., Kilic, M.M., Acar, O.K., Cempura, G., Baydogan, M., Karaguler, N.G., **Torun Köse, G.**, Czyrska-Filemonowicz, A., Cimenoglu, H., Optimization of micro-arc oxidation electrolyte for fabrication of antibacterial coating on titanium, *Materials Technology*, 33(2), 119-126, 2018
36. Onder, S., Calikoglu-Koyuncu, A.C., Kazmanlı, K., Urgan, M., Kok, F.N., **Torun Köse, G.***, Magnesium doping on TiN coatings affects mesenchymal stem cell differentiation and proliferation positively in a dose-dependent manner, *Bio-Medical Materials and Engineering*, 29(4), 427-438, 2018
37. Sedlacik, T., Acar, O.K., Studenovska, H., Kotelnikov, I., Kucka, J., Konecna, Z., Zikmund, T., Kaiser, J., **Torun Köse, G.**, Rypacek, F., Chondrogenic potential of macroporous biodegradable cryogels based on synthetic poly(alpha-amino acids), *Soft Matter*, 14(2), 228-238, 2018
38. Buyuksungur, S., Tanır, T.E., Buyuksungur, A., Bektas, E.I., **Torun Köse, G.**, Yucel, D., Beyzadeoglu, T., Cetinkaya, E., Yenigun, C., Tonuk, E., Hasirci, V., Hasirci, N., 3D printed poly(ε-caprolactone) scaffolds modified with hydroxyapatite and poly(propylene fumarate) and their effects on the healing of rabbit femur defects, *Biomaterials Science*, 5(10), 2144-2158, 2017
39. Ercal, P., Pekozer, G.G., Gumru, O.Z., **Torun Köse, G.**, Ramazanoglu, M., Influence of STRO-1 Selection on Osteogenic Potential of Human Tooth Germ Derived Mesenchymal Stem Cells, *Archives of Oral Biology*, 82, 293-301, 2017
40. Onder, S., Koyuncu, A.C.C., **Torun Köse, G.**, Kazmanli, K., Kok, F.N., Urgan, M., Effect of magnesium and osteoblast cell presence on hydroxyapatite formation on (Ti,Mg)N thin film coatings, *The Journal of The Minerals, Metals & Materials Society (JOM)*, 69(7), 1195-1205, 2017
41. Svobodová, J., Proks, V., Karabiyik, O., Koyuncu, A.C.C., **Torun Köse, G.**, Rypáček, F., Studenová, H., Poly(amino acid)-based fibrous scaffolds modified with surface-pendant peptides for cartilage tissue engineering, *Journal of Tissue Engineering and Regenerative Medicine*, 11(3), 831-842, 2017
42. Koyuncu, A.C.C., Pekozer, G.G., Ramazanoglu, M., **Torun Köse, G.***, Hasirci, V., Cartilage tissue engineering on macroporous scaffolds using human tooth germ stem cells, *Journal of Tissue Engineering and Regenerative Medicine*, 11(3), 765-777, 2017

43. Altinisik, I.A.K., Kok, F.N., Yucel, D., **Torun Köse, G.***, In vitro evaluation of PLLA/PBS sponges as a promising biodegradable scaffold for neural tissue engineering, *Turkish Journal of Biology*, 41(5), 734-745, 2017
44. Ertan, A.B., Kenar, H., Beyzadeoglu, T., Kok, F.N., **Torun Köse, G.***, An in vitro human skeletal muscle model: co-culture of myotubes, neuron-like cells, and the capillary network, *Turkish Journal of Biology*, 41(3), 514-525, 2017
45. Atasoy, A., **Torun Köse, G.***, Biology of cancellous bone graft materials and their usage for bone regeneration, *JSM Biotechnology & Biomedical Engineering*, 3(2), 1051, 2016
46. Pekozer, G.G., **Torun Köse, G.***, Hasirci, V., Influence of co-culture on osteogenesis and angiogenesis of bone marrow mesenchymal stem cells and aortic endothelial cells, *Microvascular Research*, 108, 1-9, 2016
47. Eren, F., Oksuz, S., Kucukodaci, Z., Kendirli, M.T., Cesur, C., Alarcin, E., Bektaş, E.I., Karagöz, H., Kerimoglu, O., **Torun Köse, G.**, Ulkur, E., Gorantla, V., Targeted mesenchymal stem cell and vascular endothelial growth factor strategies for repair of nerve defects with nerve tissue implanted autogenous vein graft conduits, *Microsurgery*, 36(7), 578-585, 2016
48. Kulan, P., Karabiyik, O., **Torun Köse, G.**, Kargul, B., Biocompatibility of Accelerated Mineral Trioxide Aggregate on Stem Cells Derived from Human Dental Pulp, *Journal of Endodontics*, 42(2), 276-279, 2016
49. Abay, N., Pekozer, G.G., Ramazanoglu, M., **Torun Köse, G.***, Bone formation from porcine dental germ stem cells on surface modified polybutylene succinate scaffolds, *Stem Cells International*, Article ID 8792191, doi:10.1155/2016/8792191, 2016
50. Onder, S., Koyuncu, A.C.C., Kazmanli, K., Urgan, M., **Torun Köse, G.***, Kok, F.N., Behavior of mammalian cells on magnesium substituted bare and hydroxyapatite deposited (Ti,Mg)N coatings, *New Biotechnology*, 32(6), 747-755, 2015
51. Endogan, T., Kiziltay, A., **Torun Köse, G.**, Comunoglu, N., Beyzadeoglu, T., Hasirci, N., Acrylic bone cements: Effects of the poly(methyl methacrylate) powder size and chitosan addition on their properties, *Journal of Applied Polymer Science*, 131(3), 39662, 2014
52. Can, E., Bucak, S., Kinaci, E., Calikoglu, A.C., **Torun Köse, G.**, Polybutylene succinate (PBS) - polycaprolactone (PCL) blends compatibilized with poly(ethylene oxide)-block-poly(propylene oxide)-block-poly(ethylene oxide) (PEO-PPO-PEO) copolymer for biomaterial applications, *Polymer Plastics Technology and Engineering*, 53(11), 1178–1193, 2014
53. Karadas, O., Yucel, D., Kenar, H., **Torun Köse, G.**, Hasirci, V., Collagen scaffolds with in situ-grown calcium phosphate for osteogenic differentiation of Wharton's jelly and menstrual blood stem cells, *Journal of Tissue Engineering and Regenerative Medicine*, 8(7), 534-545, 2014
54. Ozkerim, P.S.G., Balkan, T., **Torun Köse, G.**, Sarac, A.S., Kok, F.N., Incorporation of growth factor loaded microspheres into polymeric electrospun nanofibers for tissue

- engineering applications, *Journal of Biomedical Materials Research Part A*, 102(6), 1897-1908, 2014
55. Ramazanoglu, M., Lutz, R., Rusche, P., Trabzon, L., **Torun Köse, G.**, Prectl, C., Schlegel, K.A., Bone response to biomimetic implants delivering BMP-2 and VEGF: An immunohistochemical study, *Journal of Cranio-Maxillo-Facial Surgery*, 41(8), 826-835, 2013
 56. Yenigun, V.B., Ozpolat, B., **Torun Köse, G.***, Response of CD44⁺/CD24^{-low} breast cancer stem/progenitor cells to tamoxifen- and doxorubicin-induced autophagy, *International Journal of Molecular Medicine*, 31(6), 1477-1483, 2013
 57. Oksuz, S., Ulkur, E., Oncul, O., **Torun Köse, G.**, Kuçukodaci, Z., Urhan, M., The effect of subcutaneous mesenchymal stem cell injection on stasis zone and apoptosis in an experimental burn model, *Plastic and Reconstructive Surgery*, 131(3), 463-471, 2013
 58. Ertan, A.B., Yilgor, P., Bayyurt, B., Calikoglu, A.C., Kaspar, C., Kok, F.N., **Torun Köse, G.***, Hasirci, V., Effect of Double Growth Factor Release on Cartilage Tissue Engineering, *Journal of Tissue Engineering and Regenerative Medicine*, 7(2):149-60, 2013
 59. Beyzadeoglu, T., **Torun Köse, G.**, Ekici, I.D., Bekler, H., Yilmaz, C., Cytotoxicity of local anesthetics to rats' articular cartilage: An experimental study, *Acta Orthopaedica et Traumatologica Turcica*, 46(4), 323, 2012
 60. Sever, C., Uygur, F., **Torun Köse, G.**, Urhan, M., Haholu, A., Kulahci, Y., Oksuz, S., Cihan, S., Omer, O., Prefabrication of vascularized bone graft using an interconnected porous calcium hydroxyapatite ceramic in presence of vascular endothelial growth factor and bone marrow mesenchymal stem cells: Experimental study in rats, *Indian Journal of Plastic Surgery*, 45(3), 444-452, 2012
 61. Aydemir, E., Bayrak, O.F., Sahin, F., Atalay, B., **Torun Köse, G.**, Ozen, M., Sevli, S., Dalan, A.B., Yalvac, M.E., Dogruluk, T., Türe, U., Characterization of cancer stem-like cells in chordoma: Laboratory investigation, *Journal of Neurosurg*, 116(4), 810-820, 2012
 62. Can, E., Udenir, G., Kanneçi, A.I., **Köse, G.**, Bucak, S., Investigation of PLLA/PCL Blends and Paclitaxel Release Profiles, *AAPS PharmSciTech*, 12(4), 1442-1453, 2011
 63. Demirbag, B., Huri, P.Y., **Torun Köse, G.**, Buyuksungur, A., Hasirci, V., Advanced cell therapies with and without scaffolds, *Biotechnology Journal*, 6(12), 1437-1453, 2011
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71. H. Studenovska, T. Sedlačik, V. Proks, O. Karabıyık, M.Ramazanoğlu, **G.Torun Kose**, **(Poster Presentation)**, Porous polypeptide-based hydrogels as a matrices for stem cells attachment, 15.European Congress on Biotechnology, Istanbul, September 23-26, 2012.
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76. B.B.Kandemir, B.Ozpolat, **G.Torun Kose**, V.Hasirci, **(Poster Presentation)**, Starch-PEI Nanospheres for Cancer Gene Therapy, 8 th Nanoscience and Nanotechnology Congress NanoTR VIII, Ankara, Turkey, 25-29 June 2012.
77. **G.Torun Kose**, Ö.Karabıyık, C.Şener, A.Altun, **(Poster Presentation)**, Osteoblast Cell Adhesion on RBM and Sand Blasted Acid Etched Titanium Surfaces: Preliminary Results, XX International Conference on Oral and Maxillofacial Surgery, Santiago, Chile, November 1-4, 2011.
78. **G.Torun Kose**, **(Oral Presentation)**, Use of biodegradable materials and stem cells in the treatment of hard tissue losses, 1st Annual Congress on Stem Cell Research (with international participation), Sapanca, Turkey, Sep 28- Oct 2 2011.
79. G.Duruksu, A.Aksoy, A.Okçu, **G.Torun Kose**, E.Karaöz, **(Poster Presentation)**, Comprehensive Analysis of Extended Long Term Culture's Effects on Rat Bone Marrow Derived Mesenchymal Stem Cells, 1st Annual Congress on Stem Cell Research (with international participation), Sapanca, Turkey, Sep 28- Oct 2 2011.

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81. G.Gürel, **G.Torun Kose**, V.Hasırcı, **(Poster Presentation)**, Co-culture of Rat Bone Marrow Stem Cells and Rat Aortic Endothelial Cells on Electrospun Biocomposite Scaffolds, 24th European Conference on Biomaterials, Dublin, Ireland, Sep 4 – 9, 2011
82. B.B.Kandemir, B.Özpolat, **G.Torun Kose**, V. Hasirci, **(Poster Presentation)**, Polyethylenimine-Starch Nanospheres for Cancer Gene Therapy, NanoTR VII - 7th Nanoscience and Nanotechnology Conference, Istanbul, Turkey, 28-30 June 2011.
83. G.Gürel, **G.Torun Kose**, V.Hasırcı, **(Poster Presentation)**, Co-culture of Rat Bone Marrow Stromal Cells with Rat Aortic Endothelial Cells Enhances MSC Differentiation, 16th International Biomedical Science & Technology Symposium (BIOMED 2010), Beşiktaş-Ortaköy Cultural Center, İstanbul, Turkey, 29 Sept- 1 Oct 2010.
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90. D.Yücel, **G.Torun Kose**, V.Hasırcı, **(Oral Presentation)**, Stem cell based guided neural tissue engineering, International Neuroimplantation Congress, Istanbul, Turkey, 22-23 January, 2009
91. D.Yücel, **G.Torun Kose**, V.Hasırcı, **(Poster Presentation)**, Stem Cell Behavior on Polyester Based Electrospun Fibers, International Neuroimplantation Congress, Istanbul, Turkey, 22-23 January, 2009

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94. G.Udenir, E.Can, S.Bucak, **G.Torun Kose**, Drug Release from Biodegradable Polymer Blends (**Poster Presentation**), ECIS 2009 European Colloidal Interface Society Symposium, Antalya, Turkey, 6-11 September 2009
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106. **G.Torun Kose**, V.Hasirci, Biodegradation of PHBV polymers **(Oral Presentation)** ESBP, European Society of Biopolymer Symposium, Kuşadası, İzmir, 2-4 Oct 2007
107. D.Yucel, H. Kenar, E. Bella, **G.Torun Kose**, C.Migliaresi, V. Hasirci **(Oral Presentation)**, Effect of Polyester Type and Fiber Size on the Attachment of Wharton's Jelly Mesenchymal Stem Cells, 4th European Symposium on Biopolymers (ESBP2007), 2-4 October, 2007, Kusadasi, Izmir, TURKEY
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National Conferences and Abstracts

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2. Ecem Gök, (**Oral Presentation**), Farklı Konsantrasyonlara Sahip Keçiboynuzu Sakızı Hidrojelinin Yara İleşmesinde Kullanımı, Biomed 2025-TR, Ankara, Türkiye, Oct 20-22, 2025
3. Kardelen Tüfekçi, (**Poster Presentation**), Aljinat-Keçiboynuzu Zamkı Kriyojellerinin Karakterizasyonu, Biomed 2025-TR, Ankara, Türkiye, Oct 20-22, 2025
4. Ece Bayraktar, (**Poster Presentation**), Rosa Damascena Kaynaklı Ekstraselüler Veziküllerin Deri Üzerindeki Etkileri, Biomed 2025-TR, Ankara, Türkiye, Oct 20-22, 2025
5. Gizem Özoğul, (**Poster Presentation**), Borik Asit ve Sodyum Pentaborat ile Katkılandırılmış Hidroksiapatitlerin Karakterizasyonu, Biomed 2025-TR, Ankara, Türkiye, Oct 20-22, 2025
6. Elif Datlı, (**Poster Presentation**), Explant Kültüründen Elde Edilen Tiroid Kök Hücrelerinin 3D Kültür Sistemlerinde İyonik Mikroçevreye Bağlı Farklılaşma Eğilimi, Biomed 2025-TR, Ankara, Türkiye, Oct 20-22, 2025
7. G.T.Köse, (**Oral Presentation**), Damarlanmayı Arttırıcı Çift Fazlı Doku İskelesi ile Kemik Doku Mühendisliği Uygulaması, IV. SciGether Bilim Günleri, Online, Apr 20-21, 2024
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10. G.T.Köse, Cartilage regeneration via small molecule induced rat bone marrow mesenchymal stem cells on natural biomaterials **(Oral Presentation)**, *Acibadem University seminars*, Oct 14 2022
11. F.Çayır, P.Erçal, G.Gürel Peközer, G.Torun Köse, Kemik Dokusu Mühendisliğinde Diş Germ Türevli Kök Hücrelerin Plga:Pbs İskelesi Üzerinde Osteojenik Potansiyellerinin Analizi, **(Oral Presentation)**, Biomed 2021-TR, Online, Dec 18-19 2021
12. Ö.Karabıyık Acar, G.D.Noahatzadeh, A.A.Tuncer, G.Torun Köse, E. Hacıhasanoğlu, F.Şahin, E.Ayşan, Tiroid ve Paratiroid Hücrelerinin Birlikte Kültürlenmesi ile İşlevsel Paratiroid Organoidleri Geliştirilmesi **(Oral Presentation)**, Biomed 2021-TR, Online, Dec 18-19 2021
13. Ö.Karabıyık Acar, A.A.Tuncer, G.D.Noahatzadeh, F.Şahin, G.Torun Köse, E.Ayşan, Hücreli ve Hücresiz Aljinat Kapsül Oluşumunda Farklı Çapraz Bağlayıcıların Kullanım Potansiyelleri **(Oral Presentation)**, Biomed 2021-TR, Online, Dec 18-19 2021
14. K.Sabouni, Y.Ozturk, E.Kacar, H.S.Mutlu, S.Solakoglu, G.Torun Kose, F.N.Kok, M.K.Kazmanlı, M.K.Urgen, S.Önder, Magnezyum Katkılı TiN İnce Filmlerin Kemik Hasarlarının Onarımına Etkisinin In Vivo Modellerde İncelenmesi **(Oral Presentation)**, Biomed 2021-TR, Online, Dec 18-19 2021
15. Ö.Karabıyık Acar, H.Başer, A.A.Tuncer, G.D.Nuzhetzadeh, M.Keğin, E.Hacıhasanoğlu, G.T.Kose, F.Şahin, E.Ayşan, Paratiroid Hücre Nakli İçin, Cerrahi Girişim Gerektirmeksizin Enjekte Edilebilir Boyutlarda Mikro Alginat Kapsül Üretimi **(Oral Presentation)**, 19. Medikal Cerrahi Endokrinoloji, www.endokrin2021.org, 1-3 Oct 2021.
16. G.T.Kose, **(Oral Presentation)**, Damarlanmayı Artırıcı Çift Fazlı Doku İskelesi ile Kemik Doku Mühendisliği Uygulaması, İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, Feb 27-28 2021
17. O.Acar, G.Kose, I.Buyuk, K.Tufekci, D.Aksu, G.Yanikkaya, F.Sahin, E.Aysan, **(Oral Presentation)**, Cerrahi girişim uygulamadan, enkapsülasyon tekniği ile paratiroid hücre nakli: Yeni bir hücre nakil tekniği: Olgu Sunumu, 22.Ulusal Cerrahi kongresi, Susesi Otel, Antalya, 1-5 Nisan 2020
18. G.G.Pekozer, N.Abay, G.T.Kose, **(Oral Presentation)**, Damarlanmayı Artırıcı Çift Fazlı Doku İskelesi ile Kemik Doku Mühendisliği Uygulaması, BIOMED 2018-TR, Istanbul, Dec 15-16 2018
19. D.Yucel, G.T.Kose, N.Hasırcı, V.Hasırcı, **(Oral Presentation)**, Anizotropik Doku İskeleleri ve Hücre Davranışları Üzerine Etkisi, BIOMED 2018-TR, Istanbul, Dec 15-16 2018
20. H.Gezmış, G.T.Kose, V.Hasırcı, D.Yucel, **(Poster Presentation)**, Farklı Topografiye Sahip Doku İskelelerinde Menstruel Kan Mezenkimal Kök Hücrelerin Endotel Farklılaşmasının İncelenmesi, BIOMED 2018-TR, Istanbul, Dec 15-16 2018

21. B.Okutan, G.Cemali, A.Aruh, E.Can, G.T.Kose, **(Poster Presentation)**, Poli (Propilen Fumarat) (PPF) Bazlı Doku İskelelerinin Kemik Rejenerasyonundaki Rolü, BIOMED 2018-TR, Istanbul, Dec 15-16 2018
22. A.Aruh, G.Cemali, G.T.Kose, E.Can, **(Poster Presentation)**, Poli (Propilen Fumarat) (PPF) Bazlı Kompozit Doku İskelelerinin Hazırlanışı ve Karakterizasyonu, BIOMED 2018-TR, Istanbul, Dec 15-16 2018
23. G.T.Köse, **(Oral Presentation)**, Biyomateryal ve Doku Mühendisliği, Çanakkale 18 Mart Üniversitesi, Moleküler Biyoloji ve Genetik Bölümü Öğrenci Kongresi, Çanakkale, March 1-3 2018
24. G.T.Köse, **(Oral Presentation)**, Doku mühendisliğinde kök hücre kullanımı, II. Yaşambilimleri Kongresi, Kayseri, 23-25 Feb 2017
25. G.T.Köse, **(Oral Presentation)**, Doku mühendisliğinde kök hücre kullanımı, I.Adana BTÜ Biyomühendislik Günleri, Adana, 22 Dec 2016
26. A.C.Çalikoğlu-Koyuncu, S.Onder, K.Kazmanlı, M.Urgen, G.T.Köse, F.N.Kok, **(Oral Presentation)**, Effect of magnesium doping in titanium nitride coatings on the behavior of mesenchymal stem cells, Istanbul Kemerburgaz University, School of Pharmacy Nanobiotechnology Days 2015, Istanbul, Turkey, 14-15 May 2015
27. G.T.Köse, **(Oral Presentation)**, Doku mühendisliğinde kök hücre kullanımı, Haliç Üniversitesi I. Kök Hücre Sempozyumu, Kağıthane, Istanbul, 18 April 2015
28. G.T.Köse, **(Oral Presentation)**, Tissue Engineering Applications, Bilkent Biyoteknoloji Günleri, Ankara, 7-8 Mar 2015
29. G.T.Köse, **(Oral Presentation)**, Stem Cell Usage in Tissue Engineering, Stem Cell and Gene Therapy Symposium, İstanbul, 25-28 Nov 2013
30. G.T.Köse, **(Oral Presentation)**, Tissue engineering applications, Hacettepe University and M.D. Anderson Cancer Center Workshop, Ankara, 15 -16 July 2013
31. G.T.Köse, **(Oral Presentation)**, Doku Mühendisligi, Yeditepe Üniversitesi, Genetik ve Biyoteknoloji Günleri, İstanbul, 30-31 March 2013
32. G.T.Köse, **(Oral Presentation)**, Kök Hücrelerin Biyomalzemeler ve Rejeneratif Tıpta Kullanımı, BIOMATEN Workshop, Ankara, 19 March 2013
33. G.T.Köse, **(Oral Presentation)**, Doku Mühendisligi ve Uygulamaları, 1. Biyomalzeme Günü Boğaziçi Üniversitesi, Biyomedikal Mühendisliği Enstitüsü, İstanbul, 22 February 2013
34. G.T.Köse, **(Oral Presentation)**, Kemik doku mühendisliğinde kök hücre kullanımı, 3.Kök Hücre Sempozyumu, Istanbul, Nov 30- Dec 1 2012
35. P.S.Gungor Özkerim, T.Balkan, G.T. Kose, A.S.Sarac, F.N. Kok, **(Oral Presentation)**, Doku Mühendisliği Matrisleri olarak Polimer Karışımlarından elde edilen Nanofiberler, 17. Ulusal Biyoteknoloji Kongresi, İstanbul, 23-26 September 2012

36. G.T.Köse, **(Oral Presentation)**, Tissue Engineering and Its Applications, Koc University, Istanbul, 30 May, 2012
37. G.T.Köse, **(Oral Presentation)**, Synthetic grafts/ scaffolds (Sentetik greftler/skafold), TSY Arthroscopy and Knee Surgery Association 5. Spring Assembly (Türkiye Spor Yaralanmaları, Artroskopi ve Diz Cerrahisi Derneği 5. Bahar Toplantısı), İstanbul, 9-10 December, 2011
38. G.T.Köse, **(Oral Presentation)**, Use of biodegradable materials and stem cells in the treatment of hard tissue losses”, *İTÜ seminars*, December 2011
39. D.Yücel, G.T.Köse, V.Hasırcı **(Oral Presentation)**, Behavior of Human Mesenchymal Stem Cells on Electrospun Fibrous Scaffolds, 20. Ulusal Elektron Mikroskopi Kongresi, Kemer, 25-28 Oct 2011.
40. D.Yücel, G.T.Köse, V.Hasırcı, **(Oral Presentation)**, Sinir doku mühendisliği yöntemleri kullanarak kök hücre içeren “yönlü nöral tüp” tasarımı, Biyomalzemeler ve Tıpta Uygulanması Sempozyumu, İstanbul, 16 Dec 2010
41. S.Öksüz, E.Ülkür, O.Öncül, G.T.Köse, Z.Küçükodacı, M.Urhan, **(Oral Presentation)**, Deneyisel Yanık Modeli Oluşturulan Sıçanlarda Subkutan Mezenşimal Kök Hücre Uygulamasının Staz Zonu ve Apoptozis Üzerine Etkisi, 32. Ulusal Türk Plastik Rekonstrüktif ve Estetik Cerrahi Derneği Kongresi, Trabzon, 15 – 19 Sept 2010.
42. H.Kenar, G.T.Köse, V.Hasırcı, **(Poster Presentation)**, Poly(gliserol sebasat)’ın Polilaktit Temelli Doku Mühendisliği İskelelerinin Özelliklerine Etkisi, 3. Ulusal Polimer Bilim ve Teknoloji Kongresi, Kocaeli Üniversitesi, Kocaeli, 12-14 May 2010
43. G.T.Köse, Doku Mühendisliği, **(Oral Presentation)**, *Yeditepe University Science Clup, I.Biotechnology Congress*, İstanbul, 1-2 May 2010
44. G.T.Köse, Sert Doku Mühendisliği **(Oral Presentation)**, *V. Boğaziçi Üniv.Bilim Kulübü Mol.Biol ve Genetik Haftasonu*, İstanbul, 10-11 April 2010
45. G.T.Köse, Doku Mühendisliği **(Oral Presentation)**, *Uluslararası VII. İstanbul Üniv. Mol.Biol ve Genetik Öğrenci Kış Okulu*, İstanbul, Feb 2010
46. G.T.Köse, Kemik ve Kıkırdak Doku Mühendisliği: Araştırmalardan Kliniğe **(Oral Presentation)**, Ege Üniversitesi Uluslararası Katılımlı 3. Moleküler Biyoloji ve Genetik Araştırma ve Uygulama Platformu, İzmir, 27-30 August 200
47. A. Burcu Ertan, A. Ceren Çalikoğlu, Pınar Yılğör, Fatma Neşe Kök, Gamze Torun Köse and Vasıf Hasırcı, Controlled Release of IGF-I Loaded in Nanospheres Improves In Vitro Cartilage Formation **(Poster Presentation)**, *Biyomut 2009* (14. Biyomedikal Mühendisliği Ulusal Toplantısı), İzmir, 20-24 May 2009
48. G.T.Köse, Doku Mühendisliği Uygulamaları **(Oral Presentation)**, *İstanbul University Division of Physiology Seminars*, December 2009

49. G.T.Köse, Tissue Engineering and Applications **(Oral Presentation)**, *İzmir Yüksek Teknoloji Seminars, İzmir*, November 2008
50. G.T.Köse, Doku Mühendisliği **(Oral Presentation)**, İstanbul Teknik Üniversitesi Moleküler Biyoloji ve Genetik Kulübü, III. Moleküler Biyoloji ve Genetik Öğrenci Kongresi, İstanbul, 17-20 August 2008
51. G.T.Köse, Kemik kırık ve sinir doku mühendisliği, **(Oral Presentation)**, Haliç Üniversitesi Bilim Teknik Kulübü, Moleküler Biyoloji ve Genetik Bahar Sempozyumu, İstanbul, 2-4 May 2008
52. Nanoteknolojide Ürüne Dönüştürülebilir Araştırma ve Ticarileştirme Konferansı ve Proje Pazarı, Sabancı Center, İstanbul, 22-23 Dec 2008
53. G.T.Köse, Kemik ve Sinir Doku Mühendisliği: Araştırmadan Kliniğe **(Oral Presentation)**, *İstanbul University Division of Experimental Medicine Seminars (DETAM)*, December 2007
54. G.T.Köse, Bone and Nerve Tissue Engineering, **(Oral Presentation)**, TUYOD 1. National Artificial Organs and Support System Congress, Istanbul, Turkey, 2007
55. G.T.Köse, Cartilage Tissue Engineering **(Oral Presentation)**, *Boğaziçi Üniversitesi seminars*, March 2007
56. G.T.Köse, Kemik ve Kırık Doku Mühendisliği: Araştırmalardan Kliniğe **(Oral Presentation)** 21. Ulusal Fiziksel Tıp ve Rehabilitasyon Kongresi, Antalya, Türkiye 24-29 Oct 2007
57. C.Sever, F.Uygur, G.T.Köse, M.Uran, A.Hahoğlu, B.Çeliköz, Vaskülerize edici endotelial büyüme faktörünün kültüre osteoblast ve hidroksiapatit seramik ile hazırlanan prefabrikasyon modelinde etkilerinin incelenmesi **(Poster Presentation)** 29. Türk Plastik Rekonstrüktif ve Estetik Cerrahi Ulusal Kongresi, Eskişehir, Türkiye 17-20 Oct 2007
58. G.T.Köse, Biyobozunur polimerik materyaller üzerinde kemik dokusu oluşumu **(Oral Presentation)**, *Marmara University seminars*, December 2005
59. G.T.Köse, Biyobozunur Polimerik Materyaller Üzerinde Kemik Dokusu Oluşumu **(Oral Presentation)**, Etiltem, Hücre Kültürü Teknolojisinde Temel Prensipler ve Yapay Organlar, Ege University, İzmir, TURKEY, 2004
60. G.T.Köse, Biomaterials and tissue engineering **(Oral Presentation)**, *Sabancı University seminars*, "Bone tissue generation on biodegradable polymeric scaffolds", April 2004
61. G.T.Köse, Bone tissue engineering **(Oral Presentation)**, *ITU seminars*, April 2002
62. G.T.Köse, Biomaterials and tissue engineering **(Oral Presentation)**, *Boğaziçi University seminars*, October 2002
63. G.T.Köse, G. Lopez-Berestein, A.M. Tari, GRB2 activates MAPK and AKT in BCR-ABL overexpressing cells, but only MAPK in EGFR overexpressing cells **(Poster Presentation)**,

Biomed 7, The Seventh National Symposium on Biomedical Science and Technology, Hacettepe University, Ankara, TURKEY, 2000

64. G.T.Köse, M.Y.Arıca, V.Hasırcı, Lipozom özelliklerinin heparin aracılığıyla değiştirilmesi (**Poster Presentation**), Biomed 3, The Third National Symposium on Biomedical Science and Technology, University of Uludağ, Uludağ, Bursa, TURKEY, 1996
65. G.T.Köse, M.Y.Arıca, V.Hasırcı, Liposomal surface properties can be changed by using LMWH (**Poster Presentation**), Member of the local organizing committee, Biomed 2, The Second National Symposium on Biomedical Science and Technology, Middle East Technical University, Ankara, TURKEY, 1995
66. Biomed 1, The First National Symposium on Biomedical Science and Technology, Hacettepe University, Ankara, TURKEY, 1994

Organized Conferences/Symposium

1. 2. International Congress on Stem Cell and Cellular Therapies, **Member of the international organizing and scientific committee**, Antalya, Turkey, 15-18 Oct 2015
2. Biomed 2015, **Member of the international organizing and scientific committee**, Antalya, Turkey, 22-24 Oct 2015
3. Biomed 2013, **Member of the international organizing and scientific committee**, Kuşadası, Turkey, 12-15 November 2013
4. 1. Biomaterial and Tissue Engineering Workshop, **Member of the local organizing committee**, Ankara, Turkey, 26 June 2009
5. TUYOD 2. National Artificial Organs and Support System Congress, **Member of the local organizing committee**, Antalya, Turkey, 23-26 April 2009
6. Gene Therapy Symposium, Current progress, What we have learned over the past 20 years?, **Member of the local organizing committee**, Istanbul, Turkey, 2-3 Nov 2007
7. ESBP, European Society of Biopolymer Symposium, **Member of the local organizing committee**, Kuşadası, İzmir, 2-4 Oct 2007
8. **Principle organizer**, Biomed 2007, 13. Biyomedikal Bilim ve Teknoloji Sempozyumu, Istanbul, Turkey, 26-28 August 2007
9. TUYOD 1. National Artificial Organs and Support System Kongress, **Member of the local organizing committee**, Istanbul, Turkey, 2007
10. **Principle organizer**, Cell Culture Applications on Bone and Cartilage Tissue Engineering Summer Course and Workshop, Yeditepe University, Department of Genetics and Bioengineering, İstanbul, 12-16 June 2006

11. Biyoinformatik 2- Workshop, **Member of the local organizing committee**, Doğa Clup, Şile, İstanbul, 15-21 August 2004
12. Biomed 8, The Eighth International Symposium on Biomedical Science and Technology, Middle East Technical University, **Member of the local organizing committee**, Ankara, TURKEY, 2001
13. Biomed 2, The Second National Symposium on Biomedical Science and Technology, Middle East Technical University, **Member of the local organizing committee**, Ankara, TURKEY, 1995
14. NATO Advanced Study Institute on Molecular Aspects of Oxidative Drug Metabolizing Enzymes: Their Significance in Environmental Toxicology, Chemical Carcinogenesis and Health, **Member of the local organizing committee**, Kuşadası, Aydın, TURKEY, 1993

Projects

1. G.Bozdağ, E.Ayşan, G.Torun Köse (**Principle Investigator**), Application of Thyroid Scaffolds Using Decellularization Method, Yeditepe University Project Grant HD-24040, 2024-2026, 34.000 Euro, 1.230.000 TL
2. Cost action CA 21108 European Network for Skin Engineering and Modeling (NETSKINMODELS), Sep 2022-Sept 2026
3. K.Tüfekçi, G.Torun Köse (**Principle Investigator**), Development of Bilayer Tissue Scaffolds with 3D-Bioprinting for the Repair of Osteochondral Damages, Yeditepe University Project Grant HD-22014, 2022-2024, 28.052 Euro, 585.911 TL
4. N.İ.Büyük, G.Torun Köse (**Principle Investigator**), The use of chitosan nanoparticles loaded with osteogenic and angiogenic small molecules in bone regeneration, Yeditepe University Project Grant HD-23018, 2022-2024, 19.465 Euro, 406.256 TL
5. N.İ.Büyük, G.Torun Köse (**Principle Investigator**), Use of 3D Printed PLA Tissue Scaffolds with Different Pore Sizes in Bone Regeneration, Yeditepe University Project Grant HD-23019, 2022-2024, 19.118 Euro, 399.180 TL
6. A.Demirci, G.Torun Köse (**Principle Investigator**), Development of Surface Coating Strategies for Antimicrobial Titanium Implant Materials with Enhanced Osteogenic Activity, Yeditepe University Project Grant HD-23020, 2022-2024, 35.438 Euro, 740.191 TL
7. P.Siraneci, G.G.Peközer, G.T.Köse (**Advisor**), Tooth Germ-Derived Stem Cells in Bone Tissue Engineering: Analysis of Osteo-odontogenic Potential, Tübitak 3501, 117S460, 2017-2020, 95.900 Euro, 354.766,00 TL
8. F.N.Kök, E.İ.Bektaş, G.G.Peközer, G.T.Köse (**Researcher**), Cartilage regeneration via small molecule induced rat bone marrow mesenchymal stem cells on natural biomaterials, TÜBİTAK 1001, 117M287, 2017-2020, 94.600 Euro, 349.959,22 TL

9. **Researcher**, Cellular and Gene Therapy Research and Development Center of Excellence, TURKISH MINISTRY OF DEVELOPMENT, 2016-2021, 6.800.000 Euro, 21.875.864,00 TL
10. G.Torun Köse (**Principle Investigator**), G.Gürel, T.Beyzadeoğlu, Bone tissue engineering application with the vasculogenesis inducing biphasic scaffold, TÜBİTAK 1001, 114S556, 2014-2017, 117.000 Euro, 351.145,00 TL
11. E.Can, G.Cemali, G.Torun Köse (**Researcher**), Development of Vinyl Phosphonic Acid (VPA) and Vinyl Phosphonic Acid Di-ethyl Ester (VPES) Based Bone Tissue Engineering Materials TÜBİTAK 1001, 114M195, 2014-2017, 115.000 Euro, 115.000 Euro
12. N.Hasırcı, G.Torun Köse (**Researcher**), T.Baran, E.Tönük, D.Yücel, T.Beyzadeoğlu, V.Hasırcı, Patient-Specific Orthopedic Implant Design and Production with Tissue Engineering Method, TÜBİTAK 1003, 213M708, 2014-2017, 212.700 Euro, 638.100,00 TL
13. D.Yücel, N.Hasırcı, G.Torun Köse (**Advisor**), V.Hasırcı, Effects of Topography of Polymeric Cell Carriers and Meningeal Cells on Mesenchymal Stem Cell Differentiation, TÜBİTAK 3501, 113S870, 2014-2016, 117.000 Euro, 350.000 TL
14. F.N.Kök, K.Kazmanlı, G.Torun Köse (**Researcher**), M.Ürgen, The Growth of Magnesium Substituted Hydroxyapatite on (Ti,Mg)N Thin Films and Investigation of their Potential as Hard Tissue Implant Material, TÜBİTAK 1001, 112M339, 2012-2014, 146.000 Euro, 350.000,00 TL
15. H.Çimenoglu, M.Baydoğan, N.G.Karagüler, G.Torun Köse (**Advisor**), Formation of a Bioactive, Antibacterial and Microporous Oxide Layer on Titanium and Titanium Alloys for Biomedical Purposes, TÜBİTAK 1001, 111M517, 2012-2014, 146.000 Euro, 350.000,00 TL
16. T.Beyzadeoğlu, K.Yüksel, Ö.Karabıyık, F.Altıntaş, A.İvkoviç, C.H.Evans, R.M.Porter, G.Torun Köse (**Researcher**), Molecular investigation of the inhibition of bone formation after spongiuous allografting of the MSC isolated from bone and adipose tissues, TOTBİD (Association of Turkish Orthopedy and Traumatology), 2011-2012, 5.000 Euro, 10.000,00 TL
17. M.Ramazanoğlu, K.A.Schlegel, G.Torun Köse (**Researcher**), The Effect of a Biodegradable Polyethylenglycol-Gel (MX10™) on the Delivery and Osteogenic Differentiation of Autologous Tooth Germ Derived Stem Cells (TGSCs) in a Porcine Model, German ITI (International Team for Implantology) Research Grant, 2011-2013, 100.000 Euro, 199.516,30 TL
18. G.Torun Köse (**Principle Investigator**), M.Ramazanoğlu, O. Karabıyık, A.C.Çalıkoğlu, J.Svadohova, T. Sedlačik, V. Proks, H. Studenovska, Biodegradable polypeptide-based hydrogels for soft tissue regeneration, Tübitak Joint Research and Development Project, 111M031, 2011-2013, 19.000 Euro, 38.000,00 TL
19. G.Torun Köse (**Principle Investigator**), G.Gürel, Bone Tissue Formation from Dental Pulp Stem Cells on PBS Scaffolds, Feyzi Akkaya Scientific Scholarship Project, 2011-2012

20. G.Torun Köse (**Principle Investigator**), D.Yücel, Ö.Karabıyık, A.İ.Kanneci, V.Hasırcı, Nerve Regeneration on A System Consisting of PLGA tubes and Laminin-1-Collagen Nanofibers, L'Oréal Women Scientist of Turkey Scholarship Project, 2011-2012
21. G.Torun Köse (**Principle Investigator**), A.C.Çalikoğlu, Cartilage tissue engineering on PCL-PLLA scaffolds by using dental jerm stem cells, TÜBİTAK 1002, 110M404, 2011-2012, 12.500 Euro, 25.000,00 TL
22. V.Hasırcı, G.Torun Köse (**Researcher**), K.Ulubayram, K.Şerbetçi, H.Kenar, D.Yücel, N.Hasırcı, Center of Excellence for Biomaterials and Tissue Engineering, State Planning Institute Project (DPT), 2010-2013, 3.300.000 Euro
23. G.Torun Köse (**Principle Investigator**), S.Bucak, M.Değertekin, ALVIMEDICA, Drug Eluting Biodegradable Stent, State for Industry Project (SAN-TEZ), 00155.STZ.2007-2, 2007-2010, 500.000 Euro
24. M.Karahan, A.I.Doğan Ekici, Y.Ünlüerçi, G.Torun Köse (**Researcher**), Effect of ascorbic acid injection in articular knee with acute traumatic octeochondral defects, TÜBİTAK 1002, 108S135, 2008-2009, 15.000 Euro
25. V.Hasırcı, G.Torun Köse (**Researcher**), K.Ulubayram, K.Şerbetçi, H.Kenar, D.Yücel, N.Hasırcı, Investigation of pH and temperature sensitive smart nanobiomaterials in cartilage tissue engineering, State Planning Institute Project (DPT), 2006-İAP, 2005-2008, 360.000 Euro, 7.000.000 TL
26. V.Hasırcı, G.Torun Köse (**Researcher**), K.Ulubayram, K.Şerbetçi, N.Hasırcı, METUNANOBIOMAT- Development of Nanobiomaterials Research Unit in METU, TÜBİTAK- TBAG 105T508, 2005-2008, 272.000 Euro, 650.000,00 TL
27. **Researcher**, Marie-Curie RTN-FP6 BioPolySurf (Project Director J.Carlos Rodriguez-Cabello, Spain) “Engineering advanced polymeric surfaces for smart systems in biomedicine, biology, material science and nanotechnology: A cross-disciplinary approach of Biology, Chemistry, and Physics”, 2004-2009, 7.300.000 Euro
28. **Researcher**, EXPERTISSUES- FP6 European Commission CORDIS Framework Programme Project involving 13 European countries and 20 groups (Project Director R.Reis, Portugal) “Novel Therapeutic Strategies for Tissue Engineering of Bone and Cartilage Using Second Generation Biomimetic Scaffolds”, 2004-2010, 233.455 Euro
29. G.Torun Köse (**Principle Investigator**), H.Kenar, D.Yücel, V.Hasırcı, Study of the influence of micropatterned polymeric PHBV8-PLLA films on the growth and proliferation of neural tissues and molecular approaches in nerve tissue growth : In vitro neural tissue engineering, TÜBİTAK-SBAG-2723, 103S164, 2004-2006, 20.500 Euro, 35.000,00 TL
30. F.Korkusuz, G.Torun Köse (**Researcher**), A.Özkul, Y.Soyşal, T. Özdemir, C.Yıldız, V.Hasırcı, Tissue engineered cartilage on collagen and PHBV matrices, TÜBİTAK-MİSAG-158, 2000-2002, 60.000 Euro, 30.000,00 TL

31. G.Torun Köse (**Researcher**), F.Korkusuz, V.Hasırcı, Bone tissue generation on biodegradable polymeric scaffolds, METU Graduate School of Natural and Applied Sciences Project (Project number: AFP-2000-07-02-00-07), 1998-2002

M.Sc. Theses

Completed Thesis : 13 (Advisor), 6 (Co-Advisor)

Ongoing Thesis : 2 (Advisor)

1. Gizem Özoğul, G.Torun KÖSE (Advisor), Development of Hydroxyapatite Coating for Titanium Implant Materials with Enhanced Osteogenic Activity, 2024+
2. Ecem Gök, G.Torun KÖSE (Advisor), The use of specially designed 3D printed PCL secondary dressing of St. John's Wort and magnesium oxide carob gum hydrogel in wound healing, 2023+
3. Tansu Turan, G.Torun KÖSE (Advisor), Effects of Small Molecules on Cartilage Tissue Regeneration, 2019-2022
4. Delal Nozhatzadeh, G.Torun KÖSE (Advisor), Differentiation of thyroid cells to parathyroid cells in coculture environment, 2020-2022
5. Fatma Çayır, G.Torun KÖSE (Advisor), Tooth Germ-Derived Stem Cells in Bone Tissue Engineering: Analysis of Osteo-odontogenic Potential, 2017-2021
6. Kenda Sabouni, G.Torun KÖSE (Advisor), Sakip Önder (Co-Advisor), Determination of Osseointegration Properties of Magnesium Doped TiN Coatings In Vivo, 2017-2019
7. Begüm Okutan, G.Torun KÖSE (Advisor), E.Can (Co-Advisor), Role of PPF based scaffolds in bone regeneration, 2016-2018
8. Ezgi İrem Bektaş, G.Torun KÖSE (Advisor), F.N.Kök (Co-Advisor), Osteogenic differentiation of mesenchymal stem cells on double layer electrospun scaffolds, 2012-2014
9. Seçil Demir, G.Torun KÖSE (Advisor), F.Şahin (Co-Advisor), Usage of bacterial cellulose-collagen scaffolds incorporating IGF-I and TGFB-1 genes for cartilage regeneration, 2011-2014
10. Nergis Abay, G.Torun KÖSE (Advisor), Bone tissue formation on modified polybutylene succinate scaffolds with porcine dental germ stem cells, 2011-2013
11. Vildan Betül Yenigün, G.Torun KÖSE (Advisor), B.Özpolat (Co-Advisor), Tamoxifen effect on isolated breast cancer stem cells and MCF-7 breast cancer cells in the aspect of autophagy and apoptosis, 2009-2011
12. Berke Bilgenur Kandemir, G.Torun KÖSE (Co-Advisor), Polyethylenimine-starch nanoparticles for cancer gene therapy, 2011-2013

13. Ayşe Ceren Çalikoğlu, G.Torun KÖSE (Advisor), Cartilage tissue engineering on three dimensional scaffolds using human tooth germ stem cell, 2008-2011
14. Görke Gürel, G.Torun KÖSE (Advisor), Engineering a vascularised bone tissue on electrospun biocomposite scaffolds, 2008-2011
15. Özge Karadaş, V.Hasırcı (Advisor), G.Torun KÖSE (Co-Advisor), Collagen scaffolds with in situ grown calcium phosphate for osteogenic differentiation of Wharton's jelly and menstrual blood stem cells, 2008-2011
16. İ.Ayşe Kanneçi, G.Torun KÖSE (Advisor), In vitro studies of drug eluting biodegradable polymeric stent, 2008-2010
17. Esra Aydemir, G.Torun KÖSE (Advisor), Characterization of cancer stem cells in chordoma, 2007-2010
18. Ayşe Burcu ERTAN, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), Use of pH and temperature sensitive nanospheres in cartilage tissue engineering, 2006-2009
19. M.Emir Yalvaç, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), Pluripotent stem cells in human dental follicle, 2006-2008
20. Nihan Öztürk, V.Hasırcı (Advisor), G.Torun KÖSE (Co-Advisor), Thermoresponsive polymeric cell carriers of pnlpam and ELP for bone tissue engineering, 2005-2008
21. Fitnat Buket Başmanav, V.Hasırcı (Advisor), G.Torun KÖSE (Co-Advisor), Sequential growth factor delivery from complexed microspheres for bone tissue engineering, 2005-2007

Ph.D. Theses

Completed Thesis : 6 (Co-Advisor), 10 (Advisor)

Ongoing Thesis : 4 (Advisor)

1. Elif Datlı, G.Torun KÖSE (Advisor, Integrated), Parathyroid Organoids, Differentiation of Primary Thyroid Stem Cells into Functional Parathyroid Cells for Use in the Treatment of Hypoparathyroidism, 2023+
2. Ece Bayraktar, G.Torun KÖSE (Advisor), Investigation of the Effect of Tissue Scaffolds Composed of Natural Biomaterials on Wound Healing in a 3D Skin Model, 2024+
3. Gülnihal Bozdağ, G.Torun KÖSE (Advisor), Differentiation of Parathyroid-Derived Stromal Stem Cells to Parathyroid Organoids, 2020+
4. Kardelen Tüfekçi, G.Torun KÖSE (Advisor, Integrated), Preparation of LBG-XG/PCL-PBSu Scaffolds by Using 3D Bioprinter For Cartilage Development, 2018+ Integrated PhD

5. Didem Aksu, G.Torun KÖSE (Advisor), Preparation of New Biocompatible Bone Cement By Using Dual Active Biofiller and Enhancement of Their Features For Bone Development, 2019-2025
6. Emine Afra Demirci, G.Torun KÖSE (Advisor), Surface modification strategies for antimicrobial titanium implant materials with enhanced osteogenic activity 2019-2025
7. Nisa İrem Büyük, G.Torun KÖSE (Advisor), Usage of 3D printed PLA scaffolds for small molecule induced bone regeneration, 2018-2023
8. Ezgi İrem Bektaş Taş, G.Torun KÖSE (Advisor), Cartilage regeneration via small molecule induced rat bone marrow mesenchymal stem cells on natural biomaterials, 2014-2021
9. Merve Karakaş, G.Torun KÖSE (Advisor), Investigating the effects of lenti virus mediated GDNF expression on functional recovery, brain plasticity and neurogenesis after transient focal cerebral ischemia in mice, 2015-2019
10. Gökem Cemali, G.Torun KÖSE (Advisor), E.Can (Co-Advisor), Development of Poly(proylene fumarate) (PPF), Vinyl Phosphonic Acid (VPA) and Vinyl Posphonic Acid Di-Ethyl Ester (VPES) Based Scaffolds for Bone Tissue Engineering, 2011-2019
11. Nergis Abay, G.Torun KÖSE (Advisor), Bone Tissue Engineering Application with the Vasculogenesis Inducing Biphasic Scaffolds, 2013-2018
12. Ayşe Ceren Çalıkoğlu, G.Torun KÖSE (Advisor), Use of Tissue Transglutaminase (Variet 2)-Transduced Mesenchymal Stem Cells in Cartilage Tissue Engineering, 2011-2018
13. Ayşegül Atasoy, G.Torun KÖSE (Advisor), Effect of human cancellous bone graft soluble molecules onto differentiated human adipose derived mesenchymal stem cells towards osteogenic lineages, 2012-2017
14. Özge Karabıyık, G.Torun KÖSE (Advisor), B.Kayıtmazer (Co-Advisor), Usage of hyaluronic acid - chitosan coacervates for cartilage tissue engineering, 2012-2017
15. Görke Gürel, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), Dental stem cell mediated bone tissue engineering using porcine model, 2011-2017
16. Ayşe İrem Kanneçi, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), Functionalized nanofiber based scaffold in nerve tissue engineering, 2011-2017
17. Ayşe Burcu Ertan, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), In vitro skeletal muscle model development through co-culture of cells, 2009-2017
18. Perihan Selcan Güngör, F.N.Kök (Advisor), G.Torun KÖSE (Co-Advisor), Design of a bioactive scaffold system for hard tissue engineering, 2010-2014
19. Halime Kenar, V.Hasırcı (Advisor), G.Torun KÖSE (Co-Advisor), 3D patterned cardiac tissue construct formation using biodegradable materials, 2003-2008

20. Deniz Yücel, V.Hasırcı (Advisor), G.Torun KÖSE (Co-Advisor), Stem cell based nerve tissue engineering on guided constructs, 2003-2009