

## Prof.Dr. VASIF NEJAT HASIRCI

### Kişisel Bilgiler

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### Yönetilen Tezler

- HASIRCI V. N., DEVELOPMENT OF A BONE TUMOR MODEL UNDER IN VITRO CONDITIONS, Doktora, A.KÖMEZ(Öğrenci), 2019
- HASIRCI V. N., Doku mühendisliği yöntemi ile hastaya özel ortopedik implant tasarımı ve üretimi., Doktora, S.Büyüksungur(Öğrenci), 2019
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- HASIRCI V. N., HASIRCI N., Lumbar kemik defektleri için polimerik implant., Yüksek Lisans, B.Günay(Öğrenci), 2015
- HASIRCI V. N., Controlled doxorubicin delivery from photoresponsive liposomes carrying vitamin A derivatives, Yüksek Lisans, S.HEPER(Öğrenci), 2014
- HASIRCI V. N., The effect of physical properties of the ELP-collagen based patterned surfaces on cell attachment and deformation, Yüksek Lisans, E.ANTMEN(Öğrenci), 2013
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- HASIRCI V. N., Polyethylenimine-starch nanoparticles for cancer gene therapy, Yüksek Lisans, B.BİLGENUR(Öğrenci),

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**SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Advances in In Vitro Blood-Air Barrier Models and the Use of Nanoparticles in COVID-19 Research**  
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- II. **In vitro cytotoxicity, corrosion and antibacterial efficiencies of Zn doped hydroxyapatite coated Ti based implant materials**  
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- III. **Zn doped CaP coatings used for controlling the degradation rate of MgCa1 alloy: In vitro anticorrosive properties, sterilization and bacteria/cell-material interactions**  
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- IV. **Corrosion Resistance and Cytocompatibility of Magnesium-Calcium Alloys Modified with Zinc- or Gallium-Doped Calcium Phosphate Coatings**  
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- V. **A Cell Culture Chip with Transparent, Micropillar-Decorated Bottom for Live Cell Imaging and Screening of Breast Cancer Cells**  
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- VI. **3D printed hybrid bone constructs of PCL and dental pulp stem cells loaded GelMA**  
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- VII. **Evaluating Oxygen Tensions Related to Bone Marrow and Matrix for MSC Differentiation in 2D and 3D Biomimetic Lamellar Scaffolds**  
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- VIII. **A Circulating Bioreactor Reprograms Cancer Cells Toward a More Mesenchymal Niche**  
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- IX. **A two-compartment bone tumor model to investigate interactions between healthy and tumor cells**  
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- X. **Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering**  
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- XI. **Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies**  
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- XII. **Anatomical meniscus construct with zone specific biochemical composition and structural organization**  
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- XIII. **Methacrylated gelatin hydrogels as corneal stroma substitutes: in vivo study**  
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- XIV. **3D and 4D Printing of Polymers for Tissue Engineering Applications**  
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- XVIII. **Cell behavior on the alginate-coated PLLA/PLGA scaffolds**  
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- XIX. **Engineered natural and synthetic polymer surfaces induce nuclear deformation in osteosarcoma cells**  
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- XX. **Hydrogels of agarose, and methacrylated gelatin and hyaluronic acid are more supportive for in vitro meniscus regeneration than three dimensional printed polycaprolactone scaffolds**  
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- XXI. **A novel GeIMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages**  
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- XXIII. **PHBV wet-spun scaffold coated with ELR-REDV improves vascularization for bone tissue engineering**  
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- XXIV. **Effect of chemical structure on properties of polyurethanes: Temperature responsiveness and biocompatibility**  
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- XXV. **Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective**  
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- XXVI. **Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces**  
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- XXVII. **Effects of microarchitecture and mechanical properties of 3D microporous PLLA-PLGA scaffolds on fibrochondrocyte and L929 fibroblast behavior**  
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- XXVIII. **Development of PEI-RANK siRNA Complex Loaded PLGA Nanocapsules for the Treatment of**

## **Osteoporosis**

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- XXIX. **Mimicking corneal stroma using keratocyte-loaded photopolymerizable methacrylated gelatin hydrogels**  
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- XXX. **Nuclear targeting peptide-modified, DOX-loaded, PHBV nanoparticles enhance drug efficacy by targeting to Saos-2 cell nuclear membranes**  
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- XXXI. **A bilayer scaffold prepared from collagen and carboxymethyl cellulose for skin tissue engineering applications**  
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- XXXII. **PCL and PCL-based materials in biomedical applications**  
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- XXXV. **Development of a UV crosslinked biodegradable hydrogel containing adipose derived stem cells to promote vascularization for skin wounds and tissue engineering**  
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- XXXVI. **Cartilage tissue engineering on macroporous scaffolds using human tooth germ stem cells**  
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- XXXIX. **Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars**  
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- XL. **A high throughput approach for analysis of cell nuclear deformability at single cell level**  
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- XLI. **Influence of co-culture on osteogenesis and angiogenesis of bone marrow mesenchymal stem cells and aortic endothelial cells**  
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## **STREPTOCOCCUS MUTANS**

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- XLIII. **Construction of a patterned hydrogelfibrous mat bilayer structure to mimic choroid and Bruch's membrane layers of retina**  
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- XVII. **Development of GelMA-pHEMA Hydrogel Blend for Nerve Tissue Engineering Applications**  
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- XVIII. **Estradiol releasing hydrogel as a proangiogenic substitute for fat flaps used in urogenital reconstruction**

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- XIX. Use of hydroxyapatite specific elastin-like polypeptide in targeting of PEI-siRNA complex loaded PLGA nanocapsules to bone tissue**  
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- XXI. Surface modified multi-functional PCL/TCP fibrous scaffolds**  
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- XXIII. Construction of Multifunctional Nerve Guides for Spinal Cord Injuries**  
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- XXIV. Co culture of VSMC and HUVEC on Electrospun Polycaprolactone Collagen Mats as a Vascular Substitute**  
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- XXV. Construction of a Retina Substitute by Using Tissue Engineering Approach**  
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- XXVI. Polycaprolactone Collagen Based Electrospun Nanofiber Scaffolds for Vascular Tissue Engineering**  
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- XXVII. Influence of Micropatterns on Human Mesenchymal Stem Cell Fate**  
Hastürk O., HASIRCI N., HASIRCI V. N.  
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- XXVIII. Synthesis of Polyurethane for Coating of Neurostimulators**  
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- XXIX. 3D Printed Tissue Engineered Femoral Implant Design and Production**  
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- XXX. Delivery of active Drugs into Cells with PHBV Nanoparticles**  
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- XXXI. Guided Tissue Regeneration by Micro and Nanofabricated Scaffolds**  
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- XXXII. Modelling of 3D Scaffolds for Patient Specific Implants**  
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- XXXIII. Development of Polymeric Cage Material for Use in Lumbar Bone Defects**  
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- XXXIV. **Effect of Micropatterned Surfaces on the Cell Adhesion and Nuclear Deformation of Saos 2 Cells on Collagen and PLGA Films**  
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- XXXV. **NaCMC and Collagen Bilayer Scaffolds for Skin Tissue Engineering**  
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- XXXVI. **Controlled Doxorubicin Delivery from Photoresponsive Liposomes Carrying Vitamin A Derivatives**  
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- XXXVII. **Development of a Polymeric Cage Material For Use in Lumbar Bone Defects**  
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- XXXVIII. **Cell implant Interactions and Their Role on Cell Behaviour**  
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- XXXIX. **Use of Hydroxyapatite Specific Elastin Like Polypeptide in Targeting of PLGA Nanocapsules to Bone Tissue**  
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- XLI. **Synthesis of Polyurethane for Coating of Neurostimulator**  
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- XLIV. **Open Source 3D Printed PHA PLA Construct for Bone Tissue Engineering**  
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- XLV. **Influence of Micropatterns on Human Mesenchymal Stem Cell Fate**  
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- XLVI. **Contribution of a Bioactive Elastin Like Protein to 2D Collagen Fibroin Scaffolds**  
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- XLVII. **Biopolymers in Tissue Engineering and Regenerative Medicine**  
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- LV. **Patterned Thermoresponsive NIPAM PHEMA Hydrogels for Corneal Repair**  
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- LVI. **Patient Specific Orthopedic Implant Design and Production with Tissue Engineering Method**  
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- LVII. **Chitosan PLGA nanofibers prepared by electrospinning for tissue engineering applications**  
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- LVIII. **Çeşitli büyüme faktörleri içeren nano kapsüllerle hazırlanmış üç boyutlu kitosan iskele yapılarının insan mezenşimal kök hücrelerinin proliferasyonu ve osteojenik farklılaşması üzerine etkisinin değerlendirilmesi**  
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- LIX. **Preparation and characterization of natural polymer-based composite films for hard tissue engineering approaches Doğal polimer temelli kompozit filmlerin sert doku mühendisliğine yönelik hazırlanması ve karakterizasyonu**  
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## **Metrikler**

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