

## Prof. VASIF NEJAT HASIRCI

### Personal Information

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### Advising Theses

- HASIRCI V. N. , DEVELOPMENT OF A BONE TUMOR MODEL UNDER IN VITRO CONDITIONS, Doctorate, A.KÖMEZ(Student), 2019
- HASIRCI V. N. , Development and characterization of a tissue engineered multicomponent skin substitute and a skin model, Doctorate, G.EKE(Student), 2018
- HASIRCI V. N. , 3D printed, cell carrying gelma hydrogels in corneal stroma engineering, Doctorate, C.BEKTAŞ(Student), 2018
- HASIRCI V. N. , A three-dimensional printed, polycaprolactone/hydrogel based, tissue engineered meniscus, Doctorate, G.BAĖEÇECİÖĖLU(Student), 2018
- HASIRCI V. N. , Development of a siRNA delivery system for the treatment of osteoporosis, Doctorate, D.SEZLEV(Student), 2018
- HASIRCI V. N. , Cell-surface interactions in a breast cancer model, Doctorate, E.ANTMEN(Student), 2017
- HASIRCI V. N. , Influence of microenvironment on tissue engineering applications, Doctorate, E.SAYIN(Student), 2017
- HASIRCI V. N. , Influence of micropatterns on human mesenchymal stem cell fate, Post Graduate, O.HASTÖRK(Student), 2016
- HASIRCI V. N. , Influence of micropatterned polymeric substrates on cancer cell behavior, Doctorate, M.ERMİŞ(Student), 2016
- HASIRCI V. N. , Bone tissue engineering using macroporous PHA-PLA and PHBV scaffolds produced by additive manufacturing and wet spinning, Doctorate, A.SELCEN(Student), 2016
- HASIRCI V. N. , In vitro characterization and nuclear delivery of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) (PHBV) based nanoparticles, Post Graduate, A.ŞAHİN(Student), 2015
- HASIRCI V. N. , A polymeric implant for lumbar bone defects, Post Graduate, B.BÜŞRA(Student), 2015
- HASIRCI V. N. , Construction of retina substitute by using tissue engineering approach, Post Graduate, A.KÖMEZ(Student), 2015
- HASIRCI V. N. , Controlled doxorubicin delivery from photoresponsive liposomes carrying vitamin A derivatives, Post Graduate, S.HEPER(Student), 2014
- HASIRCI V. N. , Tissue engineering of small diameter vascular grafts by using PCL/collagen based scaffolds, Post Graduate, S.ÖNCÖ(Student), 2013
- HASIRCI V. N. , Polyethylenimine-starch nanoparticles for cancer gene therapy, Post Graduate, B.BİLGENUR(Student), 2013
- HASIRCI V. N. , The effect of physical properties of the ELP-collagen based patterned surfaces on cell attachment and deformation, Post Graduate, E.ANTMEN(Student), 2013
- HASIRCI V. N. , pH responsive nano carriers for anti cancer drug delivery, Doctorate, S.BAGHERIFAM(Student), 2013
- HASIRCI V. N. , Preparation and characterization of polymeric hard tissue supports, Doctorate, T.ENDOĖAN(Student), 2013
- HASIRCI V. N. , Study on the influence of scaffold inner organization on the treatment of spinal cord injury, Post Graduate, T.DURSUN(Student), 2013
- HASIRCI V. N. , Study of patterned, multilayered, collagen-based scaffolds designed to serve as a cornea stroma, Post Graduate, C.KILIÇ(Student), 2013
- HASIRCI V. N. , Bioactive agents carrying quantum dot labeled liposomes, Doctorate, A.BÖYÖKSUNGUR(Student), 2013
- HASIRCI V. N. , Bioactive agent carrying PLGA nanoparticles in the treatment of skin diseases, Post Graduate,

A.KÜÇÜKTURHAN(Student), 2012

HASIRCI V. N. , Multiwalled carbon nanotube-poly (2-hydroxyethyl methacrylate) composite conduit for peripheral nerve repair, Post Graduate, D.ARSLANTUNALI(Student), 2012

HASIRCI V. N. , Interaction between micro and nano patterned polymeric surfaces and different cell types, Doctorate, H.ÖZÇELİK(Student), 2012

HASIRCI V. N. , Composition-property relationship of PCL based polyurethanes, Post Graduate, A.GÜNEY(Student), 2012

HASIRCI V. N. , Collagen-based meniscus tissue engineering: Design and application, Doctorate, A.NDREU(Student), 2011

HASIRCI V. N. , UV responsive drug delivery from suprofen incorporated liposomes, Post Graduate, B.DEMİRBAĞ(Student), 2011

HASIRCI V. N. , Free standing layer-by-layer films of polyethyleneimine and poly(L-lysine) for potential use in corneal stroma engineering, Post Graduate, G.ALTAY(Student), 2011

HASIRCI V. N. , Plasma surface modification and characterization of pmma films, Post Graduate, Ö.ÖZGEN(Student), 2011

HASIRCI V. N. , Biopolymer based micro/nanoparticles as drug carriers for the treatment of skin diseases, Post Graduate, G.EKE(Student), 2011

HASIRCI V. N. , Poly(L-Lactic acid) (PLLA)-based meniscus tissue engineering, Post Graduate, G.BAHÇECİOĞLU(Student), 2011

HASIRCI V. N. , Collagen scaffolds with in situ grown calcium phosphate for osteogenic differentiation of Wharton's jelly and menstrual blood stem cells, Post Graduate, Ö.KARADAŞ(Student), 2011

HASIRCI V. N. , Biodegradable polymer-hydroxyapatite nanocomposites for bone plate applications, Doctorate, E.AYDIN(Student), 2010

HASIRCI V. N. , Investigation of cell migration and proliferation in agarose based hydrogels for tissue engineering applications, Post Graduate, E.VARDAR(Student), 2010

HASIRCI V. N. , Preparation and characterization of chitosan-gelatin/hydroxyapatite scaffolds for hard tissue engineering approaches, Post Graduate, C.İŞIKLI(Student), 2010

HASIRCI V. N. , Design of intelligent nanoparticles for use in controlled release, Post Graduate, B.BAYYURT(Student), 2009

HASIRCI V. N. , Sequential growth factor delivery from polymeric scaffolds for bone tissue engineering, Doctorate, P.YILGÖR(Student), 2009

HASIRCI V. N. , Stem cell based nerve tissue engineering on guided constructs, Doctorate, D.YÜCEL(Student), 2009

HASIRCI V. N. , Nanopatterned tubular collagen scaffolds for vascular tissue engineering, Doctorate, P.ZORLUTUNA(Student), 2009

HASIRCI V. N. , 3D patterned cardiac tissue construct formation using biodegradable materials, Doctorate, H.KENAR(Student), 2008

HASIRCI V. N. , Sequential growth factor delivery from complexed microspheres for bone tissue engineering, Post Graduate, F.BUKET(Student), 2007

HASIRCI V. N. , Electrospun nanofibrous scaffolds for tissue engineering, Post Graduate, A.NDREU(Student), 2007

HASIRCI V. N. , Collagen-based scaffolds for cornea tissue engineering, Post Graduate, N.ENĞİN(Student), 2006

TEZCANER A., HASIRCI V. N. , Cornea engineering on biodegradable polyesters, Post Graduate, P.ZORLUTUNA(Student), 2005

TEZCANER A., HASIRCI V. N. , Development of a genetic material transfer approach for gene therapy, Post Graduate, Ş.AYAZ(Student), 2005

KESKİN D., HASIRCI V. N. , Development and analysis of controlled release polymeric rods containing vancomycin, Post Graduate, O.TAĞIT(Student), 2005

HASIRCI V. N. , In vitro bone tissue engineering on patterned biodegradable polyester blends, Post Graduate, H.KENAR(Student), 2003

HASIRCI V. N. , Construction of a choline oxidase biosensor, Post Graduate, D.YÜCEL(Student), 2003

HASIRCI V. N. , Collagen matrices for guided tissue engineering, Post Graduate, S.BER(Student), 2003

HASIRCI V. N. , Poly (N-vinyl 2-pyrrolidone) based hydrogels for the delivery of bioactive species, Post Graduate, S.ÇINAR(Student), 2003

HASIRCI V. N. , Dual action, photoactive liposomes as cancer drug carriers, Post Graduate, Ö.ÖĞÜN(Student), 2002

HASIRCI V. N. , Bone tissue generation on biodegradable polymeric scaffold, Doctorate, G.TORUN(Student), 2002

HASIRCI V. N. , Biodegradable bone plates and bone marrow extract loaded microcapsules in bone repair, Post Graduate, S.COŞKUN(Student), 2002

HASIRCI V. N. , Hybridoma development; monoclonal antibody production in search for protein purification, Post Graduate, G.YÜCEL(Student), 2002

HASIRCI V. N. , Increase of asparaginase in vivo half life by encapsulation and surface modification, Doctorate, E.TÜRKER(Student), 2001

HASIRCI V. N. , Controlled release of pain relievers for the alleviation of chronic pain, Doctorate, D.ŞENDİL(Student), 2001

HASIRCI V. N. , Construction of an acetylcholinesterase-cholin oxidase biosensor for the determination of aldicarb, Doctorate, F.NEŞE(Student), 2001

HASIRCI V. N. , Tissue engineered retinal pigment epithelium, Doctorate, A.TEZCANER(Student), 2001

HASIRCI V. N. , Bacterial production and screening of polyhydroxyalkanoates by using a novel spectrofluorometric method, Post Graduate, B.EMRE(Student), 1999

HASIRCI V. N. , Controlled release of antibiotics from biodegradable polyhydroxyalkanoate implants for the treatment of osteomyelitis, Post Graduate, F.TÜRESİN(Student), 1998

HASIRCI V. N. , Antibiotic release from biodegradable microbial polyesters, Post Graduate, D.ŞENDİL(Student), 1997

HASIRCI V. N. , The Development of a hard tissue substitute and its use in drug release, Post Graduate, M.BURAK(Student), 1997

HASIRCI V. N. , Changing the liposomal surface properties by means of low molecular weight heparin, Post Graduate, G.KÖSE(Student), 1996

HASIRCI V. N. , Liposome-derived model DNA delivery systems, Post Graduate, M.REZA(Student), 1996

HASIRCI V. N. , Structural stability of liposomes and the influence of constituents, Post Graduate, A.BORUCU(Student), 1994

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering**  
BEKTAŞ C., Hasirci V.  
BIOMATERIALS SCIENCE, vol.8, pp.438-449, 2020 (Journal Indexed in SCI)
- **A two-compartment bone tumor model to investigate interactions between healthy and tumor cells**  
Komez A., Buyuksungur A., Antmen E., Swieszkowski W., HASIRCI N., Hasirci V.  
Biomedical Materials (Bristol), vol.15, 2020 (Journal Indexed in SCI Expanded)
- **Amplification of nuclear deformation of breast cancer cells by seeding on micropatterned surfaces to better distinguish their malignancies**  
ANTMEN ALTUNSOY E., Demirci U., Hasirci V.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.183, 2019 (Journal Indexed in SCI)
- **Anatomical meniscus construct with zone specific biochemical composition and structural organization**  
Bahcecioglu G., Bilgen B., Hasirci N., Hasirci V.  
BIOMATERIALS, vol.218, 2019 (Journal Indexed in SCI)
- **Methacrylated gelatin hydrogels as corneal stroma substitutes: in vivo study**  
BEKTAŞ C., Burcu A., Gedikoglu G., Telek H. H. , Ornek F., Hasirci V.  
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.30, pp.1803-1821, 2019 (Journal Indexed in SCI)
- **3D and 4D Printing of Polymers for Tissue Engineering Applications**  
Tamay D. G. , DURSUN USAL T., Alagoz A. S. , Yucel D., HASIRCI N., Hasirci V.  
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, vol.7, 2019 (Journal Indexed in SCI)
- **Square prism micropillars on poly(methyl methacrylate) surfaces modulate the morphology and differentiation of human dental pulp mesenchymal stem cells**  
Hasturk O., Ermis M., Demirci U., Hasirci N., Hasirci V.  
Colloids and Surfaces B: Biointerfaces, vol.178, pp.44-55, 2019 (Journal Indexed in SCI)
- **A 3D printed PCL/hydrogel construct with zone-specific biochemical composition mimicking that of**

## **the meniscus**

Bahcecioglu G., Hasirci N., Bilgen B., HASIRCI V. N.

BIOFABRICATION, vol.11, 2019 (Journal Indexed in SCI)

### **Microfibrinous scaffolds from poly(L-lactide-co-epsilon-caprolactone) blended with xeno-free collagen/hyaluronic acid for improvement of vascularization in tissue engineering applications**

KENAR H., Ozdogan C. Y. , Dumlu C., DOĞER E., Kose G. T. , Hasirci V.

MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.97, pp.31-44, 2019 (Journal Indexed in SCI)

### **Cell behavior on the alginate-coated PLLA/PLGA scaffolds**

Bahcecioglu G., Hasirci N., HASIRCI V. N.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.124, pp.444-450, 2019 (Journal Indexed in SCI)

### **Hydrogels of agarose, and methacrylated gelatin and hyaluronic acid are more supportive for in vitro meniscus regeneration than three dimensional printed polycaprolactone scaffolds**

Bahcecioglu G., Hasirci N., Bilgen B., HASIRCI V. N.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.122, pp.1152-1162, 2019 (Journal Indexed in SCI)

### **Engineered natural and synthetic polymer surfaces induce nuclear deformation in osteosarcoma cells**

Antmen E., ERMİŞ ŞEN M., Demirci U., HASIRCI V. N.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.107, pp.366-376, 2019 (Journal Indexed in SCI)

### **A novel GeIMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages**

DURSUN USAL T., Yucel D., Hasirci V.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.121, pp.699-706, 2019 (Journal Indexed in SCI)

### **Micro and Nanofabrication methods to control cell-substrate interactions and cell behavior: A review from the tissue engineering perspective**

ERMİŞ ŞEN M., Antmen E., HASIRCI V. N.

BIOACTIVE MATERIALS, vol.3, pp.355-369, 2018 (Journal Indexed in SCI)

### **Effect of chemical structure on properties of polyurethanes: Temperature responsiveness and biocompatibility**

Komez A., Buyuksungur S., Hasirci V., HASIRCI N.

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.33, pp.479-497, 2018 (Journal Indexed in SCI)

### **PHBV wet-spun scaffold coated with ELR-REDV improves vascularization for bone tissue engineering**

Alagoz A. S. , Rodriguez-Cabello J. C. , HASIRCI V. N.

BIOMEDICAL MATERIALS, vol.13, 2018 (Journal Indexed in SCI)

### **Effects of microarchitecture and mechanical properties of 3D microporous PLLA-PLGA scaffolds on fibrochondrocyte and L929 fibroblast behavior**

Bahcecioglu G., Hasirci N., HASIRCI V. N.

BIOMEDICAL MATERIALS, vol.13, 2018 (Journal Indexed in SCI)

### **Square prism micropillars improve osteogenicity of poly(methyl methacrylate) surfaces**

Hasturk O., ERMİŞ M., Demirci U., Hasirci N., HASIRCI V. N.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.29, 2018 (Journal Indexed in SCI)

### **Development of PEI-RANK siRNA Complex Loaded PLGA Nanocapsules for the Treatment of Osteoporosis**

Bilecen D. S. , Uludag H., HASIRCI V. N.

TISSUE ENGINEERING PART A, vol.25, pp.34-43, 2018 (Journal Indexed in SCI)

### **Mimicking corneal stroma using keratocyte-loaded photopolymerizable methacrylated gelatin hydrogels**

Bektas C. K. , HASIRCI V. N.

- JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.12, 2018 (Journal Indexed in SCI)  
**PCL and PCL-based materials in biomedical applications**  
Malikmammadov E., ENDOĞAN TANIR T., KIZILTAY A., Hasirci V., Hasirci N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.863-893, 2018 (Journal Indexed in SCI)  
**PCL-TCP wet spun scaffolds carrying antibiotic-loaded microspheres for bone tissue engineering**  
Malikmammadov E., ENDOĞAN TANIR T., KIZILTAY A., Hasirci V., Hasirci N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.805-824, 2018 (Journal Indexed in SCI)  
**Nuclear targeting peptide-modified, DOX-loaded, PHBV nanoparticles enhance drug efficacy by targeting to Saos-2 cell nuclear membranes**  
Sahin A., Eke G., Buyuksungur A., Hasirci N., HASIRCI V. N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.507-519, 2018 (Journal Indexed in SCI)  
**A bilayer scaffold prepared from collagen and carboxymethyl cellulose for skin tissue engineering applications**  
Bektas C. K. , Kimiz I., ŞENDEMİR A., Hasirci V., Hasirci N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.29, pp.1764-1784, 2018 (Journal Indexed in SCI)  
**3D printed poly(epsilon-caprolactone) scaffolds modified with hydroxyapatite and poly(propylene fumarate) and their effects on the healing of rabbit femur defects**  
Büyüksungur S., Tanir T. E. , Büyüksungur A., Bektas E. I. , Kose G. T. , Yücel D., Beyzadeoglu T., Çetinkaya E., Yenigün C., Tönük E., et al.
- BIOMATERIALS SCIENCE, vol.5, pp.2144-2158, 2017 (Journal Indexed in SCI)  
**Development of a UV crosslinked biodegradable hydrogel containing adipose derived stem cells to promote vascularization for skin wounds and tissue engineering**  
Eke G., Mangir N., Hasirci N., MacNeil S., HASIRCI V. N.
- BIOMATERIALS, vol.129, pp.188-198, 2017 (Journal Indexed in SCI)  
**Cartilage tissue engineering on macroporous scaffolds using human tooth germ stem cells**  
Koyuncu A. C. C. , Pekozer G. G. , Ramazanoğlu M. K. , KÖSE G., HASIRCI V. N.
- JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.11, pp.765-777, 2017 (Journal Indexed in SCI)  
**Construction of a PLGA based, targeted siRNA delivery system for treatment of osteoporosis**  
Bilecen D. S. , Carlos Rodriguez-Cabello J., Uludag H., HASIRCI V. N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, pp.1859-1873, 2017 (Journal Indexed in SCI)  
**A cell attracting composite of lumbar fusion cage**  
Gunay B., Hasirci N., HASIRCI V. N.
- JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, pp.749-767, 2017 (Journal Indexed in SCI)  
**Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars**  
Hasturk O., Sivas A., KARASÖZEN B., Demirci U., Hasirci N., HASIRCI V. N.
- ADVANCED HEALTHCARE MATERIALS, vol.5, pp.2972-2982, 2016 (Journal Indexed in SCI)  
**A high throughput approach for analysis of cell nuclear deformability at single cell level**  
Ermis M., Akkaynak D., Chen P., Demirci U., HASIRCI V. N.
- SCIENTIFIC REPORTS, vol.6, 2016 (Journal Indexed in SCI)  
**Influence of co-culture on osteogenesis and angiogenesis of bone marrow mesenchymal stem cells and aortic endothelial cells**  
Pekozer G. G. , KÖSE G., Hasirci V.
- MICROVASCULAR RESEARCH, vol.108, pp.1-9, 2016 (Journal Indexed in SCI)  
**FLUORIDE-CONTAINING ANTI-CARIES pH-SENSITIVE RELEASE SYSTEM AND ITS EFFECT ON STREPTOCOCCUS MUTANS**  
Polat G. G. , Akgun O. M. , Simsek B., Saracli M. A. , Heper S., Hasirci V.
- FLUORIDE, vol.49, pp.458-466, 2016 (Journal Indexed in SCI)  
**Construction of a patterned hydrogelfibrous mat bilayer structure to mimic choroid and Bruch's membrane layers of retina**

Komez A, Baran E. T. , Erdem U, Hasirci N., HASIRCI V. N.

JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A, vol.104, pp.2166-2177, 2016 (Journal Indexed in SCI)

● **Osteogenic differentiation of adipose derived stem cells on high and low aspect ratio micropatterns**  
Sayin E., Baran E. T. , HASIRCI V. N.

JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.26, pp.1402-1424, 2015 (Journal Indexed in SCI)

● **Preparation and Characterization of Chitosan and PLGA-Based Scaffolds for Tissue Engineering Applications**

ENDOĞAN TANIR T, Hasirci V., Hasirci N.

POLYMER COMPOSITES, vol.36, pp.1917-1930, 2015 (Journal Indexed in SCI)

● **Biocompatibility of Dead Sea Water and retinyl palmitate carrying poly(3-hydroxybutyrate-co-3-hydroxyvalerate) micro/nanoparticles designed for transdermal skin therapy**

Eke G., Goni-de-Cerio F., Suarez-Merino B., Hasirci N., HASIRCI V. N.

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.30, pp.455-471, 2015 (Journal Indexed in SCI)

● **Poly(ester-urethane) scaffolds: effect of structure on properties and osteogenic activity of stem cells**

KIZILTAY A, Marcos-Fernandez A, San Roman J, Sousa R. A. , Reis R. L. , Hasirci V., Hasirci N.

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.9, pp.930-942, 2015 (Journal Indexed in SCI)

● **pH-Responsive Nano Carriers for Doxorubicin Delivery**

Bagherifam S., Skjeldal F. M. , Griffiths G., Maelandsmo G. M. , Engebraten O., Nystrom B., Hasirci V., Hasirci N.

PHARMACEUTICAL RESEARCH, vol.32, pp.1249-1263, 2015 (Journal Indexed in SCI)

● **Tissue engineering of oral mucosa: a shared concept with skin**

Kinikoglu B., Damour O., Hasirci V.

JOURNAL OF ARTIFICIAL ORGANS, vol.18, pp.8-19, 2015 (Journal Indexed in SCI)

● **Poly(sebacic anhydride) nanocapsules as carriers: effects of preparation parameters on properties and release of doxorubicin**

Bagherifam S., Griffiths G. W. , Maelandsmo G. M. , Nystrom B., Hasirci V., Hasirci N.

JOURNAL OF MICROENCAPSULATION, vol.32, pp.166-174, 2015 (Journal Indexed in SCI)

● **Electrospinning of chitosan/poly(lactic acid-co-glycolic acid)/hydroxyapatite composite nanofibrous mats for tissue engineering applications**

ENDOĞAN TANIR T, Hasirci V., Hasirci N.

POLYMER BULLETIN, vol.71, pp.2999-3016, 2014 (Journal Indexed in SCI)

● **In Vivo Performance of Poly(epsilon-caprolactone) Constructs Loaded with Gentamicin Releasing Composite Microspheres for Use in Bone Regeneration**

Sezer U. A. , BİLLUR D., HURİ G., Huri P. Y. , AKSOY E. A. , Terzioğlu H., Konukseven E., Hasirci V., HASIRCI N.

JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING, vol.4, pp.786-795, 2014 (Journal Indexed in SCI)

● **Construction of a collagen-based, split-thickness cornea substitute**

Acun A., HASIRCI V. N.

JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.25, pp.1110-1132, 2014 (Journal Indexed in SCI)

● **Systematically organized nanopillar arrays reveal differences in adhesion and alignment properties of BMSC and Saos-2 cells**

Ozcelik H., Padeste C., HASIRCI V. N.

COLLOIDS AND SURFACES B-BIOINTERFACES, vol.119, pp.71-81, 2014 (Journal Indexed in SCI)

● **Collagen scaffolds with in situ-grown calcium phosphate for osteogenic differentiation of Wharton's jelly and menstrual blood stem cells**

Karadas O., Yucel D., Kenar H., Kose G. T. , HASIRCI V. N.

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.8, pp.534-545, 2014 (Journal Indexed in SCI)

● **In vitro and transdermal penetration of PHBV micro/nanoparticles**

Eke G., Kuzmina A. M. , Goreva A. V. , Shishatskaya E. I. , Hasirci N., HASIRCI V. N.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.25, pp.1471-1481, 2014 (Journal Indexed in SCI)

● **Construction and in vitro testing of a multilayered, tissue-engineered meniscus**

Bahcecioglu G., Buyuksungur A., KIZILTAY A., Hasirci N., HASIRCI V. N.

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.29, pp.235-253, 2014 (Journal Indexed in SCI)

● **Poly(epsilon-caprolactone) Composite Scaffolds Loaded with Gentamicin-Containing beta-Tricalcium Phosphate/Gelatin Microspheres for Bone Tissue Engineering Applications**

Sezer U. A. , ARSLANTUNALI ŞAHİN D., Aksoy E. A. , Hasirci V., Hasirci N.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, 2014 (Journal Indexed in SCI)

● **A multilayer tissue engineered meniscus substitute**

Halili A. N. , Hasirci N., HASIRCI V. N.

JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, vol.25, pp.1195-1209, 2014 (Journal Indexed in SCI)

● **Proliferation and Differentiation of Mesenchymal Stem Cells in Chitosan Scaffolds Loaded with Nanocapsules Containing Bone Morphogenetic Proteins-4, Platelet-Derived Growth Factor and Insulin-Like Growth Factor 1**

Saygun I., Bal V., KIZILTAY A., HURİ P., Avcu F., ÜSTÜN K., HASIRCI V. N. , Hasirci N.

JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING, vol.4, pp.181-188, 2014 (Journal Indexed in SCI)

● **Multiwalled CNT-pHEMA composite conduit for peripheral nerve repair.**

Arslantunali D., Budak G., HASIRCI V. N.

Journal of biomedical materials research. Part A, vol.102, pp.828-41, 2014 (Journal Indexed in SCI Expanded)

● **Protein-based materials in load-bearing tissue-engineering applications**

Sayin E., Baran E. T. , Hasirci V.

REGENERATIVE MEDICINE, vol.9, pp.687-701, 2014 (Journal Indexed in SCI)

● **Storage and Baking Stability of Encapsulated Sour Cherry Phenolic Compounds Prepared from Micro- and Nano-Suspensions**

Luca A., ÇİLEK TATAR B., Hasirci V., ŞAHİN S., ŞÜMNÜ S. G.

FOOD AND BIOPROCESS TECHNOLOGY, vol.7, pp.204-211, 2014 (Journal Indexed in SCI)

● **A collagen-based corneal stroma substitute with micro-designed architecture**

Kilic C., Girotti A., Rodriguez-Cabello C., HASIRCI V. N.

BIOMATERIALS SCIENCE, vol.2, pp.318-329, 2014 (Journal Indexed in SCI)

● **Cell/Tissue Microenvironment Engineering and Monitoring in Tissue Engineering, Regenerative Medicine, and In Vitro Tissue Models**

Vrana N. E. , Hasirci V., McGuinness G. B. , Ndreu-Halili A.

BIOMED RESEARCH INTERNATIONAL, 2014 (Journal Indexed in SCI)

● **Chitosan-based wet-spun scaffolds for bioactive agent delivery**

Ucar S., Yilgor P., Hasirci V., Hasirci N.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, pp.3759-3769, 2013 (Journal Indexed in SCI)

● **An in vivo study on the effect of scaffold geometry and growth factor release on the healing of bone defects**

Yilgor P., Yilmaz G., Onal M. B. , Solmaz I., Gundogdu S., Keskil S., Sousa R. A. , Reis R. L. , Hasirci N., HASIRCI V. N.

JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.7, pp.687-696, 2013 (Journal Indexed in SCI)

● **Effect of Degritting of Phenolic Extract from Sour Cherry Pomace on Encapsulation Efficiency-Production of Nano-suspension**

LUCA A., Cilek B., Hasirci V., ŞAHİN S., Sumnu G.

FOOD AND BIOPROCESS TECHNOLOGY, vol.6, pp.2494-2502, 2013 (Journal Indexed in SCI)

● **A biomimetic growth factor delivery strategy for enhanced regeneration of iliac crest defects**

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