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Personal Information

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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik, Turkey 2002 - 2008

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği A.B.D., Turkey 2000 - 2002

Undergraduate, Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1992 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Biyobozunur polimerik materyaller ve/veya bunların kalsiyum fosfat kompozitlerinin üretimi ve sert doku onarımında kullanımı, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), 2008

Postgraduate, Poli(L-laktat/?-kaprolakton) ve bunların HA/TCP ile kompozitlerinden süperkritik karbondioksit ortamında gözenekli yapıların hazırlanması, Hacettepe Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Chemistry, Organic Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik A.B.D., 2019 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2014 - 2019

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği A.B.D., 2002 - 2014

Academic and Administrative Experience

Head of Department, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik A.B.D., 2021 - Continues

Hacettepe Üniversitesi, Deneysel Hayvanları Uygulama Ve Araştırma Merkezi, 2015 - Continues

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), 2012 - 2014

Advising Theses

- AYDIN H. M. , Kornea doku mühendisliği için polimerik ve deselülerize edilmiş matrikslerin hazırlanması, Postgraduate, B.ASLAN(Student), 2016
- AYDIN H. M. , Aort onarımı için deselülerize ve hibrit matrikslerin geliştirilmesi, Postgraduate, S.GÜLER(Student), 2016
- AYDIN H. M. , Kolajen/beta-trikalsiyum fosfat bazlı sentetik kemik greftlerinin geliştirilmesi, Postgraduate, B.SARIKAYA(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Surface channel patterned and endothelialized poly(glycerol sebacate) based elastomers**
Tevlek A., Topuz B., ÇETİN E., AYDIN H. M.
JOURNAL OF BIOMATERIALS APPLICATIONS, 2022 (Journal Indexed in SCI)
- II. **Fabrication of a multi-layered decellularized amniotic membranes as tissue engineering constructs**
Yuksel S., Asik M. D. , AYDIN H. M. , Tonuk E., Aydin E. Y. , Bozkurt M.
TISSUE & CELL, vol.74, 2022 (Journal Indexed in SCI)
- III. **Effects of alginate-chitosan core-shell nanoparticles encapsulated in gelatin methacrylate hydrogel on chondrogenesis of mesenchymal stem cells**
Aksoy Korpe D., Guler S., AYDIN H. M. , DUMAN M.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 2021 (Journal Indexed in SCI)
- IV. **Preparation of decellularized optic nerve grafts**
Topuz B., AYDIN H. M.
ARTIFICIAL ORGANS, 2021 (Journal Indexed in SCI)
- V. **Fabrication and characterization of carbon aerogel/poly(glycerol-sebacate) patches for cardiac tissue engineering**
Alya A. M. N. , Tevlek A., Almemar M., GÖKCEN D., AYDIN H. M.
BIOMEDICAL MATERIALS, vol.16, no.6, 2021 (Journal Indexed in SCI)
- VI. **In vitro selection of DNA aptamers against human osteosarcoma**
Tsogtbaatar K., Sousa D. A. , Ferreira D., Tevlek A., AYDIN H. M. , ÇELİK AKDUR E., Rodrigues L.
INVESTIGATIONAL NEW DRUGS, 2021 (Journal Indexed in SCI)
- VII. **Multi-layered in vitro 3D-bone model via combination of osteogenic cell sheets with electrospun membrane interlayer**
Tevlek A., AYDIN H. M.
JOURNAL OF BIOMATERIALS APPLICATIONS, 2021 (Journal Indexed in SCI)
- VIII. **Microwave-Assisted Synthesis of Stretchable and Transparent Poly(Ethyleneglycol-Sebacate) Elastomers with Autonomous Self-Healing and Capacitive Properties**
Gunal G., Okan M., GÖKCEN D., ÇAYKARA T., AYDIN H. M.
SOFT ROBOTICS, vol.8, pp.262-272, 2021 (Journal Indexed in SCI)
- IX. **Study on Cost-Efficient Carbon Aerogel to Remove Antibiotics from Water Resources**
AYLAZ G., Okan M., DUMAN M., AYDIN H. M.
ACS OMEGA, vol.5, no.27, pp.16635-16644, 2020 (Journal Indexed in SCI)
- X. **Effects of ceramic particle size on cell attachment and viability in polyurethane-based bone adhesive composites**
Erken M., Tevlek A., Hosseinian P., Topuz B., AYDIN H. M.
JOURNAL OF COMPOSITE MATERIALS, vol.54, no.15, pp.2013-2022, 2020 (Journal Indexed in SCI)
- XI. **Synthesis of temperature and light sensitive mixed polymer brushes via combination of surface-initiated PET-ATRP and interface-mediated RAFT polymerization for cell sheet application**
Evcı M., Tevlek A., AYDIN H. M. , ÇAYKARA T.
APPLIED SURFACE SCIENCE, vol.511, 2020 (Journal Indexed in SCI)

- XII. **Stretchable poly(glycerol-sebacate)/beta-tricalcium phosphate composites with shape recovery feature by extrusion**
Tevlek A., Agacik D. T. , AYDIN H. M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.20, 2020 (Journal Indexed in SCI)
- XIII. **Synthesis of Conductive Carbon Aerogels Decorated with beta-Tricalcium Phosphate Nanocrystallites**
Tevlek A., Atya A. M. N. , Almemar M., DUMAN M., GÖKCEN D., Ganin A. Y. , Yiu H. H. P. , AYDIN H. M.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (Journal Indexed in SCI)
- XIV. **Use of cyclic strain bioreactor for the upregulation of key tenocyte gene expression on Poly(glycerol-sebacate) (PGS) sheets**
Deniz P., GÜLER S., Celik E., Hosseinian P., AYDIN H. M.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.106, 2020 (Journal Indexed in SCI)
- XV. **Hybrid Cornea: Cell Laden Hydrogel Incorporated Decellularized Matrix**
Uyaniklar M., Gunal G., Tevlek A., Hosseinian P., AYDIN H. M.
ACS BIOMATERIALS SCIENCE & ENGINEERING, vol.6, no.1, pp.122-133, 2020 (Journal Indexed in SCI)
- XVI. **Effects of severe plastic deformation on pre-osteoblast cell behavior and proliferation on AISI 304 and Ti-6Al-4V metallic substrates**
Tevlek A., AYDIN H. M. , Maleki E., VAROL R., ÜNAL O.
SURFACE & COATINGS TECHNOLOGY, vol.366, pp.204-213, 2019 (Journal Indexed in SCI)
- XVII. **Current approaches to waste polymer utilization and minimization: a review**
Okan M., AYDIN H. M. , BARSBAY M.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.94, no.1, pp.8-21, 2019 (Journal Indexed in SCI)
- XVIII. **Evaluation of collagen foam, poly(L-lactic acid) nanofiber mesh, and decellularized matrices for corneal regeneration**
Aslan B., GÜLER S., Tevlek A., AYDIN H. M.
JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS, vol.106, no.6, pp.2157-2168, 2018 (Journal Indexed in SCI)
- XIX. **Improvement of Decellularization Efficiency of Porcine Aorta Using Dimethyl Sulfoxide as a Penetration Enhancer**
GÜLER S., Aydin H. M. , Lu L., Yang Y.
ARTIFICIAL ORGANS, vol.42, no.2, pp.219-230, 2018 (Journal Indexed in SCI)
- XX. **Preparation of MC3T3-E1 cell sheets through short-term osteogenic medium application**
Tevlek A., ODABAŞ S., ÇELİK E., AYDIN H. M.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, pp.1145-1153, 2018 (Journal Indexed in SCI)
- XXI. **Polyurethane-Ceramic matrices as orbital implants**
Sahan S., Hosseinian P., Ozdil D., TÜRK M., Aydin H. M.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.67, no.8, pp.487-493, 2018 (Journal Indexed in SCI)
- XXII. **Supercritical Carbon Dioxide-Assisted Decellularization of Aorta and Cornea**
GÜLER S., Aslan B., Hosseinian P., AYDIN H. M.
TISSUE ENGINEERING PART C-METHODS, vol.23, no.9, pp.540-547, 2017 (Journal Indexed in SCI)
- XXIII. **Aminated poly(vinyl chloride) solid state adsorbents with hydrophobic function for post-combustion CO2 capture**
Sneddon G., McGlynn J. C. , Neumann M. S. , Aydin H. M. , Yiu H. H. P. , Ganin A. Y.
JOURNAL OF MATERIALS CHEMISTRY A, vol.5, no.23, pp.11864-11872, 2017 (Journal Indexed in SCI)
- XXIV. **Polyurethane/Tricalcium Phosphate Bone Adhesives and Substitutes for Load Bearing Applications**
Sahan S., Hosseinian P., Ozdil D., TÜRK M., AYDIN H. M.
JOURNAL OF BIOMATERIALS AND TISSUE ENGINEERING, vol.7, no.5, pp.401-407, 2017 (Journal Indexed in SCI)
- XXV. **Tri-layered composite plug for the repair of osteochondral defects: in vivo study in sheep**
YÜCEKUL A., Ozdil D., Kutlu N. H. , ERDEMLİ E., AYDIN H. M. , DORAL M. N.
JOURNAL OF TISSUE ENGINEERING, vol.8, 2017 (Journal Indexed in SCI)

- XXVI. **Bi-layered constructs of poly(glycerol-sebacate)-beta-tricalcium phosphate for bone-soft tissue interface applications**
Tevlek A., Hosseinian P., Ogutcu C., TÜRK M., AYDIN H. M.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.72, pp.316-324, 2017 (Journal Indexed in SCI)
- XXVII. **Hybrid Aorta Constructs via In Situ Crosslinking of Poly(glycerol-sebacate) Elastomer Within a Decellularized Matrix ocr v26**
GÜLER S., HOSSEINIAN P., AYDIN H. M.
TISSUE ENGINEERING PART C-METHODS, vol.23, no.1, pp.21-29, 2017 (Journal Indexed in SCI)
- XXVIII. **Stem Cell-based Medicinal Products: Regulatory Perspectives**
Ozdil D., AYDIN H. M.
ADVANCED SURFACES FOR STEM CELL RESEARCH, pp.323-342, 2017 (Journal Indexed in SCI)
- XXIX. **Poly(L-Lactide)/Poly(epsilon-Caprolactone) and Collagen/beta-Tricalcium Phosphate Scaffolds for the Treatment of Critical-Sized Rat Alveolar Defects: A Microtomographic, Molecular-Biological, and Histological Study**
Ekin O., ÇALIŞ M., ALIYEV A., Yar A. S. , KORKUSUZ P., BİLGİÇ E., AYDIN H. M. , ÇELİK H. H. , OZGUR F., VARGEL İ.
CLEFT PALATE-CRANIOFACIAL JOURNAL, vol.53, no.4, pp.453-463, 2016 (Journal Indexed in SCI)
- XXX. **Fabrication of Plasmonic Nanorod-Embedded Dipeptide Microspheres via the Freeze-Quenching Method for Near-Infrared Laser-Triggered Drug-Delivery Applications**
Erdogan H., Yilmaz M., Babur E., DUMAN M., AYDIN H. M. , Demirel G.
BIOMACROMOLECULES, vol.17, no.5, pp.1788-1794, 2016 (Journal Indexed in SCI)
- XXXI. **Vertical Bone Augmentation Using Bone Marrow-Derived Stem Cells: An In Vivo Study in the Rabbit Calvaria**
NAMLI H., Erdogan O., GÖNLÜŞEN G., Kahraman O. E. , AYDIN H. M. , KARABAĞ S., TATLI U.
IMPLANT DENTISTRY, vol.25, no.1, pp.54-62, 2016 (Journal Indexed in SCI)
- XXXII. **Microwave-assisted green approach for graft copolymerization of l-lactic acid onto starch**
Salimi K., TOPUZOĞULLARI M., DİNÇER İŞOĞLU S., AYDIN H. M. , Piskin E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.6, 2016 (Journal Indexed in SCI)
- XXXIII. **Synthesis and characterization of poly(glycerol-co-sebacate-co-epsilon-caprolactone) elastomers**
Aydin H. M. , Salimi K., Yilmaz M., Turk M., Rzayev Z. M. O. , Piskin E.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.10, no.1, 2016 (Journal Indexed in SCI)
- XXXIV. **Collagen/Beta-Tricalcium Phosphate Based Synthetic Bone Grafts via Dehydrothermal Processing**
SARIKAYA B., Aydin H. M.
BIOMED RESEARCH INTERNATIONAL, 2015 (Journal Indexed in SCI)
- XXXV. **Polymers for medical and tissue engineering applications**
Ozdil D., AYDIN H. M.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.89, no.12, pp.1793-1810, 2014 (Journal Indexed in SCI)
- XXXVI. **A facile in vitro model to study rapid mineralization in bone tissues**
Deegan A. J. , Aydin H. M. , Hu B., Konduru S., Kuiper J. H. , Yang Y.
BIOMEDICAL ENGINEERING ONLINE, vol.13, 2014 (Journal Indexed in SCI)
- XXXVII. **Microwave-assisted rapid synthesis of poly(glycerol-sebacate) elastomers**
Aydin H. M. , Salimi K., Rzayev Z. M. O. , Piskin E.
BIOMATERIALS SCIENCE, vol.1, no.5, pp.503-509, 2013 (Journal Indexed in SCI)
- XXXVIII. **A Three-Layered Osteochondral Plug: Structural, Mechanical, and in vitro Biocompatibility Analysis**
Aydin H. M.
ADVANCED ENGINEERING MATERIALS, vol.13, no.12, 2011 (Journal Indexed in SCI)
- XXXIX. **A 6-month in vivo study of polymer/mesenchymal stem cell constructs for cranial defects**
AYDIN H. M. , KORKUSUZ P., Vargel I., Kilic E., Guzel E., Cavusoglu T., Ucgan D., Piskin E.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.26, no.2, pp.207-221, 2011 (Journal Indexed in SCI)
- XL. **Study of tissue engineered bone nodules by Fourier transform infrared spectroscopy**

Aydin H. M. , Hu B., Suso J. S. , El Haj A., Yang Y.

ANALYST, vol.136, no.4, pp.775-780, 2011 (Journal Indexed in SCI)

- XLII. **Improving pore interconnectivity in polymeric scaffolds for tissue engineering**
Aydin H. M. , El Haj A. J. , Piskin E., Yang Y.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.3, no.6, pp.470-476, 2009 (Journal Indexed in SCI)
- XLIII. **Interaction of Osteoblasts with Macroporous Scaffolds Made of PLLA/PCL Blends Modified with Collagen and Hydroxyapatite**
AYDIN H. M. , Yang Y., Kohler T., El Haj A., Mueller R., Piskin E.
ADVANCED ENGINEERING MATERIALS, vol.11, no.8, 2009 (Journal Indexed in SCI)
- XLIV. **Cathepsin K/TRAP: Can they be used to induce osteogenesis?**
Aydin H. M. , Piskin E.
MEDICAL HYPOTHESES, vol.72, no.4, pp.464-465, 2009 (Journal Indexed in SCI)
- XLV. **Attachment and growth of fibroblasts on poly(L-lactide/epsilon-caprolactone) scaffolds prepared in supercritical CO2 and modified by polyethylene imine grafting with ethylene diamine-plasma in a glow-discharge apparatus**
Aydin H. M. , Turk M., Calimli A., Piskin E.
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, vol.29, no.9, pp.873-880, 2006 (Journal Indexed in SCI)
- XLVI. **Microporous scaffolds from poly(lactide-co-epsilon-caprolactone) composites with hydroxyapatite and tricalcium phosphates using supercritical CO2 for bone tissue engineering**
Aydin H. M. , Piskin E., Calimli A.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.19, no.5, pp.383-394, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Development of Antithrombogenic ECM-Based Nanocomposite Heart Valve Leaflets**
Seyrek A., Gunal G., AYDIN H. M.
ACS APPLIED BIO MATERIALS, 2022 (Journal Indexed in ESCI)
- II. **Rapid production of highly interconnected porous scaffolds by spheroidized sugar particles for tissue engineering**
AYDIN H. M. , YANG Y.
Journal of Hacettepe Biology and Chemistry, 2011 (Refereed Journals of Other Institutions)
- III. **Assesment of a new biomimetic scaffold and its effects on bone formation by OCT**
YANG Y., AYDIN H. M. , PIŞKİN E., EL HAJ A.
Proceedings of SPIE (Society of Photo-optical Instrumentation Engineers), 2009 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Use of supercritical CO2 in soft tissue decellularization**
Topuz B., Günel G., GÜLER S., AYDIN H. M.
in: Methods in Cell Biology, David Caballero, Subhas C. Kundu, Rui L. Reis, Editor, Academic Press Elsevier, Cambridge, pp.49-79, 2020
- II. **Stem Cell-based Medicinal Products: Regulatory Perspectives**
özdil d., AYDIN H. M.
in: Advanced Surfaces for Stem Cell Research, Ashutosh Tiwari, Bora Garipcan, Lokman Uzun, Editor, Wiley-Scrivener, pp.321-340, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **COMBINED EFFECT OF POLY (GLY CEROL-SEBACAT) / TRICALCIUM PHOSPHATE SCAFFOLDNON BONE HEALING IN RAT ALVEOLAR DEFECT MODEL**
AKYÜZ T., ÇAM S. B. , KORKUSUZ P., AYDIN H. M. , OCAK M., KÜÇÜKGÜVEN A., VARGEL İ.
EORS 2020, Turkey, 17 September 2020
- II. **Osteokondral Defektlerin Tamirinde Üç Katmanlı Kompozit Tapa: in vivo Koyun Çalışması**
Yücekul A., ERDEMLİ E., AYDIN H. M. , DORAL M. N.
27. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 24 - 29 October 2017, vol.51, pp.34
- III. **Comparison of Biopolymeric, Synthetic and Natural Derived Corneal Constructs**
Aslan B., GÜLER S., Tevlek A., AYDIN H. M.
28th European Society for Biomaterials Congress, 4 - 08 September 2017
- IV. **Poly(glycerol-sebacate)/b-Tricalcium Phosphate (PGS/TCP) Bi-Layered Composites for Guided Bone Regeneration**
Atakan T., Hosseinian P., Öğütçü C., AYDIN H. M.
28th European Society for Biomaterials Congress, 4 - 08 September 2017
- V. **Enhancing Mechanical Properties of Decellularized Aortae via in situ Polymerization**
GÜLER S., hosseinian p., AYDIN H. M.
8th National Biomechanics congress with International Participation, 19 - 23 October 2016
- VI. **Preparation of Poly glycerol sebacate PGS Decellularized Aorta Composites**
GÜLER S., pezhman h., AYDIN H. M.
XXV International Materials Research Congress, 16 - 20 August 2016
- VII. **Synthesis of Gelatine Methacrylate Hydrogels as Cell Carriers**
körpe d., hosseinian p., GÜLER S., DUMAN M., AYDIN H. M.
9. Meeting of Scandinavian Society of Biomaterials, 30 May - 04 June 2016
- VIII. **Collagen b TCP Scaffold for Bone Regeneration in Crtical Size Bone Defects**
SARIKAYA B., AYDIN H. M. , Hosseinian P., Aslan B., BİLGİÇ E., KORKUSUZ P., VARGEL İ.
21th International Biomedical Science and Technology Symposium, 22 - 24 October 2016
- IX. **Improvement of Decellularization Efficiency of Porcine Aorta by Using Dimethyl Sulfoxide as Penetration Enhancer**
Selcen G., Lyu L., AYDIN H. M. , Ying Y.
4th TERMIS WORLD CONGRESS, 8 - 11 September 2015
- X. **Corneal Collagen Matrix Coated with Poly p xylylene PPX for Keratocyte Orientation**
Aslan B., Selcen G., AYDIN H. M.
4th TERMIS WORLD CONGRESS, 8 - 11 September 2015
- XI. **Effects of Dehydrothermal Treatment of Collagen beta TCP Scaffold on Bone Regeneration in Critical Size Bone Defects**
SARIKAYA B., Pezhman H., Aslan B., Elif B., Utku O., KORKUSUZ P., VARGEL İ., AYDIN H. M.
4th TERMIS WORLD CONGRESS, 8 - 11 September 2015
- XII. **Polyurethane Ceramic Matrices as Orbital Implants**
AYDIN H. M. , Sahan S., Hosseinian P., Deniz O., Turk M.
27th European Conference on Biomaterials, 30 August - 03 September 2015
- XIII. **PU TCP Bone Adhesives and Substitutes for Load Bearing Applications**
AYDIN H. M. , Sahan S., Pezhman H., Ozdil D., Turk M.
AMWC 2015, 23 - 25 August 2015
- XIV. **Supercritical Carbon Dioxide scCO2 Assisted Decellularization of Aorta**
GÜLER S., AYDIN H. M.
26th European Conference on Biomaterials, 31 August - 03 September 2014
- XV. **R D Strategies in Biomaterial Production**
ÖĞÜTÇÜ C., AYDIN H. M.
19th International Biomedical Science and Technology Symposium, 12 - 15 November 2013

- XVI. **Regeneration of Osteochondral Defects Using a Multilayered Scaffold A Novel Design in vitro Performance and in vivo Healing in Ovine Model**
AYDIN H. M.
European Conference on Biomaterials, 8 - 12 September 2013
- XVII. **Optimization Process of Alginate Coated Chitosan Nanoparticles**
KORPE D. A. , AYDIN H. M.
TERMIS EU 2013 Tissue Engineering and Regenerative Medicine, 17 - 20 June 2013
- XVIII. **Mesenchymal Stem Cells and Tissue Engineering Scaffolds in Cranial Bone Defects**
KORKUSUZ P., VARGEL İ., AYDIN H. M. , BÖLGEN N., EĞRİ S., İŞOĞLU İ. A. , UÇKAN D., ÇAVUŞOĞLU T., GÜZEL E., KILIÇ E., et al.
16th International Biomedical Science and Technology Symposium, 29 September - 02 October 2010
- XIX. **Investigation of Polymer Mesenchymal Stem Cell Constructs for Cranial Defects**
AYDIN H. M. , KORKUSUZ P., VARGEL İ., KILIÇ E., GÜZEL E., ÇAVUŞOĞLU T., UÇKAN D., PİŞKİN E.
16th International Biomedical Science and Technology Symposium, 29 September - 02 October 2010
- XX. **Enhancement of Calcium Nodule Production by Osteoblasts**
AYDIN H. M. , HU B., EL HAJ A. J. , YANG Y.
23rd European Conference on Biomaterials, 11 - 15 September 2010
- XXI. **An Ultrastructural and in vitro Analyses of a Three layered Osteochondral Plug**
AYDIN H. M. , YANG Y.
European Conference on Biomaterials, 05 September 2011
- XXII. **First Orthobiologics Product CE Class III in Turkey Suprabone**
AYDIN H. M.
Marie Curie Conference ESOF 2010, 1 - 02 July 2010
- XXIII. **FTIR Study of Tissue Engineered Bone Nodules**
AYDIN H. M. , SULE SUSO J., HU B., EL HAJ A. J. , YANG Y.
SPEC 2010 Shedding Light on Disease: Optical Diagnosis for the New Millennium, 26 June - 01 July 2010
- XXIV. **Investigation of Tissue Formation within 3 Phasic Scaffolds in vitro**
AYDIN H. M. , EL HAJ A. J. , YANG Y.
TERMIS EU 2010 Tissue Engineering and Regenerative Medicine Galway, 13 - 17 June 2010
- XXV. **Investigation of Tissue Engineering Scaffolds Stem Cells in Cranial Defects**
AYDIN H. M. , GÜZEL E., KORKUSUZ P., UÇKAN D., KILIÇ E., VARGEL İ., ÇAVUŞOĞLU T., PİŞKİN E.
TERMIS EU 2010 Tissue Engineering and Regenerative Medicine Galway, 13 - 17 June 2010
- XXVI. **A morphological Study of Cell Aggregations on Mineralisation**
AYDIN H. M. , GÜZEL E., KESRİ S., EL HAJ A. J. , YANG Y.
8th International Conference on Cell & Stem Cell Engineering, 11 - 12 June 2010
- XXVII. **Polimer Mezenkimal Kök Hücre Kompozitlerinin Kranial Defektlerde Uygulanması Altı Aylık in vivo İzlem**
AYDIN H. M. , KORKUSUZ P., GÜZEL E., UÇKAN D., KILIÇ E., VARGEL İ., ÇAVUŞOĞLU T., PİŞKİN E.
19. Ulusal Elektron Mikroskopi Kongresi, Turkey, 22 - 25 June 2009
- XXVIII. **Filling Cranial Defects in Rats 6 Months Animal Study**
AYDIN H. M. , VARGEL İ., ÇAVUŞOĞLU T., KORKUSUZ P., GÜZEL E., PİŞKİN E.
TERMIS EU 2008 Porto Meeting, 22 - 26 June 2008
- XXIX. **Novel Technique for HA Particle Coating Within 3D Polymeric Structures**
AYDIN H. M. , YANG Y., KOHLER T., PİŞKİN E.
Biomed 2008 14th Biomedical Science and Technology Symposium, 14 - 18 May 2008
- XXX. **Novel Scaffolds for Tissue Engineering**
PİŞKİN E., BÖLGEN N., EĞRİ S., AYDIN H. M. , İŞOĞLU İ. A.
Trento Innovation Conferences in Materials Engineering: 1st Meeting Advances in Polymers, Composites and Biomaterials, 16 - 19 December 2007
- XXXI. **Biodegradable Polymers and Novel Scaffolds for Tissue Engineering Experience of Hacettepe University Group**

PİŞKİN E., BÖLGEN N., VARGEL İ., KORKUSUZ P., AYDIN H. M. , EĞRİ S., TUZLAKOĞLU K., İŞOĞLU İ. A. , KAITIAN X., KESENCİ K., et al.

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