

## Res. Asst. SELCAN GÜLER

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-5782-480X

Yoksis Researcher ID: 200960

### Education Information

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji, Turkey 2007 - 2012

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Postgraduate, Aort onarımı için deselülerize ve hibrit matrikslerin geliştirilmesi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Biyomühendislik (YI) (Tezli), 2016

### Research Areas

Medicine, Health Sciences

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Biyomühendislik (Dr), 2014 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Biofabrication of Poly(glycerol sebacate) Scaffolds Functionalized with a Decellularized Bone Extracellular Matrix for Bone Tissue Engineering**  
GÜLER S., Eichholz K., Chariyev-Prinz F., Pitacco P., AYDIN H. M., Kelly D. J., VARGEL İ.  
Bioengineering, vol.10, no.1, 2023 (SCI-Expanded)
- II. **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 (SCI-Expanded)
- III. **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 (SCI-Expanded)

#### **IV. 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 (SCI-Expanded)

#### **V. 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 (SCI-Expanded)

#### **VI. 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 (SCI-Expanded)

## **Books & Book Chapters**

### **I. Use of supercritical CO<sub>2</sub> 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

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. 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

### **II. 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

### **III. 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

### **IV. 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

### **V. Supercritical Carbon Dioxide scCO<sub>2</sub> Assisted Decellularization of Aorta**

GÜLER S., AYDIN H. M.

26th European Conference on Biomaterials, 31 August - 03 September 2014

## **Supported Projects**

AYDIN H. M., UYANIKLAR M., GÜLER S., Project Supported by Higher Education Institutions, Kornea Onarımı İçin Hibrit Materyal, 2018 - 2018

VARGEL İ., GÜLER S., AYDIN H. M., TEVLEK A., ASLAN B., Project Supported by Higher Education Institutions, Biyopolimerik Sentetik ve Doğal Kaynaklı Korneal Yapıların Karşılaştırılması, 2017 - 2018

AYDIN H. M., GÜLER S., Project Supported by Higher Education Institutions, Poli(gliserol-sebakat)-Aselüler Aort

## **Metrics**

Publication: 12

Citation (WoS): 81

Citation (Scopus): 75

H-Index (WoS): 5

H-Index (Scopus): 5