

Res. Asst. SELCAN GÜLER

Personal Information

Email: selcanguler@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/selcanguler>

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 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

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 scCO₂ 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