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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GCP-8912-2022

ScopusID: 57209363492

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### Education Information

Doctorate, Gazi University, Eczacılık Fakültesi, Eczacılık Teknolojisi, Turkey 2017 - 2024

Undergraduate, Ankara University, Eczacılık Fakültesi, Turkey 2012 - 2017

### Dissertations

Doctorate, İpek fibroin bazlı ilaç yüklü hidrojellerin inflamatuvar barsak hastalığında değerlendirilmesi, Gazi University, Eczacılık Fakültesi, Eczacılık Teknolojisi, 2024

### Research Areas

Pharmaceutical Biotechnology, Pharmaceutical Technology, Health Sciences

### Academic Titles / Tasks

Research Assistant, Gazi University, Eczacılık Fakültesi, Eczacılık Teknolojisi, 2023 - Continues

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

- I. **Evaluation of the effect of process parameters on the protein content of silk fibroin**  
Yıldız A., MUTLU AĞARDAN N. B., ACARTÜRK F.  
Polymer Bulletin, vol.80, no.12, pp.13181-13198, 2023 (SCI-Expanded)
- II. **Silk fibroin nanoparticles and  $\beta$ -tricalcium phosphate loaded tissue engineered gelatin bone scaffolds: A Nature-based, low-cost solution**  
Yıldız A., BİRER M., Turgut Birer Y., Uyar R., YURDAKÖK DİKMEN B., ACARTÜRK F.  
Journal of Biomaterials Applications, vol.38, no.5, pp.646-661, 2023 (SCI-Expanded)
- III. **Development and characterization of chitosan nanoparticles loaded nanofiber hybrid system for vaginal controlled release of benzydamine**  
Tuğcu-Demiröz F. N., Saar S., Kara A. A., Yıldız A., Tunçel E., Acartürk F.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.161, 2021 (SCI-Expanded)

- IV. **Three dimensional bioprinting technology: Applications in pharmaceutical and biomedical area**  
Kocak E., Yildiz A., ACARTÜRK F.  
Colloids and Surfaces B: Biointerfaces, vol.197, 2021 (SCI-Expanded)
- V. **Peptide-protein based nanofibers in pharmaceutical and biomedical applications**  
Yildiz A., Kara A. A., ACARTÜRK F.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.148, pp.1084-1097, 2020 (SCI-Expanded)
- VI. **Development and characterization of rapid dissolving ornidazole loaded PVP electrospun fibers**  
TORT S., Yildiz A., TUĞCU DEMİRÖZ F. N., AKCA G., Kuzukiran O., ACARTÜRK F.  
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, no.7, pp.864-873, 2019 (SCI-Expanded)
- VII. **pH-dependent dissolution behavior of a weakly basic BCS class II drug, clopidogrel**  
Incecayir T., Olğaç S., Yildiz A., Saar S., Kodan E.  
Latin American Journal of Pharmacy, vol.38, no.10, pp.1921-1928, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Development and Evaluation of Sustained Release Tablet Formulations of Venlafaxine Hydrochloride**  
Tort S., Kodan Akça E., Olğaç S., Saar S., Yıldız A., Ünal İ. S., Özdal Z. D., Tuğcu Demiröz F. N.  
Sağlık bilimlerinde değer (Online), vol.12, no.1, pp.28-35, 2022 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of the degradation and swelling behaviour of the strontium ranelate loaded 3D printed scaffolds developed for alveolar bone defect**  
Yildiz A., Saar S., Ayçiçek M., Gürbüz S., Tuğcu Demiröz F. N., Doğan A., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.295
- II. **Fabrication of Benzydamine-Loaded Vaginal Rings Using SLA 3D Printing Technology and Comparative In Vitro Evaluation of Rings with Different Shapes**  
Biçici H. İ., Yıldız A., Seyis E. N., Tuğcu Demiröz F. N.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.285
- III. **Preparation of Insulin-Containing Polycaprolactone Nanoparticles Using Box-Behnken Design**  
Tekin T., Yıldız A., Tuğcu Demiröz F. N., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.322
- IV. **Evaluation of the cytotoxicity and in vitro TNF- $\alpha$  silencing efficiency of the mesalazine and TNF- $\alpha$  siRNA loaded 3D bioprinted hydrogels**  
Yildiz A., Mutlu Ağardan N. B., Uyar R., Yurdakök Dikmen B., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.70
- V. **In Vitro Characterization of 3D-Printed Strontium Ranelate Loaded Silk Fibroin/Alginate-Based Scaffolds for Alveolar Bone Regeneration**  
Tuğcu Demiröz F. N., Yıldız A., Saar S., Ayçiçek M., Gürbüz S., Doğan A., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.248
- VI. **Effect of production parameters on PLGA nanoparticles on particle size and polydispersity index**  
Saar S., Yıldız A., Ayçiçek M., Gürbüz S., Tuğcu Demiröz F. N., Doğan A., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.310
- VII. **Evaluation of the Cytotoxicity of 3D Printed Strontium Ranelate-Loaded Silk Fibroin/Alginate-Based Scaffolds For Alveolar Bone Regeneration**  
Tuğcu Demiröz F. N., Gültekin Y., Doğan O., Vural İ., Yıldız A., Saar S., Acartürk F.  
21st International Pharmaceutical Technology Symposium, Ankara, Turkey, 9 - 11 September 2024, pp.245
- VIII. **In Vitro Evaluation of Insulin Loaded-3D Printed Wound Dressing**  
Tekin T., Yıldız A., Tuğcu Demiröz F. N., Acartürk F.

- 14th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 25 - 28 June 2024, pp.155
- IX. **Preparation and Evaluation of Gelatin/Alginate-Based Inks for 3D Printing of Bone Scaffolds**  
Saar S, Yıldız A, Ayçiçek M, Gürbüz S, Tuğcu Demiröz F. N., Doğan A, Acartürk F.  
14th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 25 - 28 June 2024, pp.279
- X. **3D-Printed Strontium Ranelate Loaded Silk Fibroin/Alginate-Based Scaffolds for Alveolar Bone Regeneration**  
Yıldız A, Saar S, Ayçiçek M, Gürbüz S, Tuğcu Demiröz F. N., Doğan A, Acartürk F.  
14th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 25 - 28 June 2024, pp.384
- XI. **Development and in vitro evaluation of mesalazine and chitosan/TNF- $\alpha$  siRNA polyplex loaded silk fibroin-based hydrogels by 3D bioprinting**  
Yıldız A., Mutlu Ağardan N. B., Acartürk F.  
14th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 25 - 28 June 2024, pp.85
- XII. **Development of 3D Printed Bovine Serum Albumin Loaded Alginate-Based Hydrogel Dressing for Wound-Healing Application**  
TEKİN T., YILDIZ A., TUĞCU DEMİRÖZ F. N., ACARTÜRK F.  
5th International Eurasian Conference on Biotechnology and Biochemistry, Ankara, Turkey, 23 - 25 November 2022
- XIII. **Preparation and In Vitro Release Studies of Mesalazine Loaded Silk Fibroin Based Nanoparticles**  
YILDIZ A., MUTLU AĞARDAN N. B., ACARTÜRK F.  
16th Nanoscience & Nanotechnology Conference (NANOTR-16), Ankara, Turkey, 5 - 08 September 2022
- XIV. **Evaluation of the Effect of Nanofiber Formulations on the Expression of IBD Marker TNF- $\alpha$  by Cell Culture Studies**  
YILDIZ A., SAAR S., YILDIRIM E., UYAR R., YURDAKÖK DİKMEN B., TUĞCU DEMİRÖZ F. N., ACARTÜRK F.  
16th Nanoscience & Nanotechnology Conference (NANOTR-16), Ankara, Turkey, 5 - 08 September 2022
- XV. **In-vitro, Ex-vivo And Cytotoxicity Evaluation of Hydrocortisone-loaded Nanofiber for Colon Targeting**  
SAAR S., YILDIZ A., YILDIRIM E., UYAR R., TURGUT Y., YURDAKÖK DİKMEN B., TUĞCU DEMİRÖZ F. N., ACARTÜRK F.  
FIGON DMD & EUFEPS Annual Meeting, Leiden, Netherlands, 1 - 03 June 2022
- XVI. **Development of Mesalazine Loaded Hydrogel Formulations by 3D Printing Technology**  
YILDIZ A., MUTLU AĞARDAN N. B., ACARTÜRK F.  
20th International Pharmaceutical Technology Symposium, Ankara, Turkey, 21 - 23 February 2022
- XVII. **Fabrication and Characterization of Methylprednisolone-Loaded Colon-Specific 3D-Printed Drug Delivery Systems**  
YILDIZ A., TURANLI Y., BİRER M., SAAR S., TUĞCU DEMİRÖZ F. N., ACARTÜRK F.  
3rd International Gazi Pharma Symposium Series, Ankara, Turkey, 8 - 10 September 2021
- XVIII. **Development and Characterization Studies of Hydrocortisone Loaded Eudragit-Based Colon Targeted Nanofibers**  
TUĞCU DEMİRÖZ F. N., YILDIRIM E., SAAR S., YILDIZ A., ACARTÜRK F.  
3rd International Gazi Pharma Symposium Series, Ankara, Turkey, 8 - 10 September 2021
- XIX. **Optimization and Validation of Silk Fibroin Production Process**  
YILDIZ A., MUTLU AĞARDAN N. B., ACARTÜRK F.  
3rd International Gazi Pharma Symposium Series, Ankara, Turkey, 8 - 10 September 2021
- XX. **Preparation of silk fibroin nanoparticles from bombyx mori cocoons by doe approach**  
BİRER M., YILDIZ A., ACARTÜRK F.  
13th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 22 - 25 June 2021, pp.48-50
- XXI. **Studies on modifications of established silk fibroin production methods to enhance protein content**  
YILDIZ A., MUTLU AĞARDAN N. B., ACARTÜRK F.  
12th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology (PBP), Viyana, Austria, 11 - 15 May 2021
- XXII. **A different approach to nanofiber drug delivery systems: Nanofiber based tablet formulations**  
SAAR S., YILDIZ A., TORT S., TUĞCU DEMİRÖZ F. N., ACARTÜRK F.

International Eurasian Conference on Biotechnology and Biochemistry, Ankara, Turkey, 16 - 18 December 2020

- XXIII. **Development of Benzylamine Loaded Nanofiber Formulations For Vaginal Controlled Drug Release**  
Tuğcu Demiröz F. N., Yıldız A., Kara A. A., Tunçel E., Saar S., Acartürk F.  
8th BBBB Conference on Pharmaceutical Sciences, İzmir, Turkey, 14 - 16 October 2019, pp.87-89
- XXIV. **Permeability Studies of Nitroimidazole Derivative Antibiotic Loaded Nanofibers**  
TUĞCU DEMİRÖZ F. N., TORT S., YILDIZ A., SAAR S., ACARTÜRK F.  
19th International Pharmaceutical Technology Symposium-IPTS, Ankara, Turkey, 17 - 19 September 2018
- XXV. **Preparation and Characterization of Nanofibers Containing Ornidazole for Buccal Application**  
TORT S., YILDIZ A., TUĞCU DEMİRÖZ F. N., TUNÇEL E., ACARTÜRK F.  
12th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018
- XXVI. **pH-Dependent Dissolution Behavior Of a Weakly Basic BCS Class II Drug, Clopidogrel**  
OLĞAÇ S., YILDIZ A., SAAR S., KODAN E., İNCEÇAYIR T.  
12th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018
- XXVII. **Development and Evaluation of Extended Release Tablet Formulations of Venlafaxine Hydrochloride**  
SAAR S., YILDIZ A., ÜNAL İ. S., ÖZDAL Z. D., OLĞAÇ S., KODAN E., DURAN C., TORT S., TUĞCU DEMİRÖZ F. N.  
12th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018

## Supported Projects

BANOĞLU E., TUĞCU DEMİRÖZ F. N., ÇALIŞKAN K., YILDIZ A., AKKOL E., BAYTAŞ S., TIRNAKSIZ F. F., ŞATANA KARA H. E., KARAHALİL B., ER DEMİRHAN B., et al., Project Supported by Higher Education Institutions, YENİ İLAÇ AKTİF MADDESİ KEŞİF GELİŞTİRME VE BİYOLOJİK ETKİNLİKLERİNİN DEĞERLENDİRİLMESİ ÜZERİNE ÇALIŞMALAR, 2024 - Continues  
Yıldız A., Saar S., Tuğcu Demiröz F. N., Acartürk F., Doğan A., Gürbüz S., Ömeroğlu S., Ayçiçek M., Vural İ., Karapınar I., et al., Project Supported by Higher Education Institutions, Alveol kemiği iyileşmesinde lokal olarak uygulanmak üzere 3B biyoyazıcı ile doku iskelesi şeklinde biyomalzeme geliştirilmesi ve in vitro - in vivo karakterizasyonu, 2022 - 2025  
Acartürk F., Mutlu Ağardan N. B., Yurdakök Dikmen B., TUBITAK Project, TNF-alfa siRNA ve mesalazin yüklü 3B basılmış hidrojellerin gen susturma etkinliğinin in vitro değerlendirilmesi, 2022 - 2023  
Yıldız A., Özgenç Çınar Ö., Ceylan A., Acartürk F., Mutlu Ağardan N. B., Project Supported by Higher Education Institutions, İpek Fibroin Bazlı İlaç Yüklü Hidrojellerin İnflamatuvar Barsak Hastalığında Değerlendirilmesi, 2020 - 2023

## Metrics

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