

## Assoc. Prof. MURAT DOĞAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: GQP-2700-2022

Yoksis Researcher ID: 60769

### Education Information

Doctorate, Marmara University, Faculty Of Pharmacy, Pharmaceutical Technology, Turkey 2014 - 2020

Undergraduate, Gazi University, Eczacılık Fakültesi, Turkey 2007 - 2011

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Health&Medicine, New approaches in cancer treatment and drug delivery systems, Erasmus , 2022

Health&Medicine, Farmasötik Biyoteknoloji Eğitim Kongresi, Cinna Gen İlaç, 2019

Health&Medicine, 2. Ulusal Marmara Eczacılık Kongresi, MARMARA ÜNİVERSİTESİ, 2018

Health&Medicine, Biyoteknolojik İlaçlarda Gelecek ve Türkiye Sempozyumu, TUSEB, 2018

Health&Medicine, 5. Kök Hücre Sempozyumu, Marmara Üniversitesi, 2016

Health&Medicine, ESGCT Spring School, Medizinische Hochschule Hannover, 2015

Health&Medicine, Regulatory Updates in Development and Manufacturing of Biologicals, GE Healthcare, 2015

Vocational Training, Araştırmacılar için Deney Hayvanları Kullanımına ait Eğitim, Marmara Üniversitesi, 2014

Foreign Language, English Language Programme, Marmara Üniversitesi Sürekli Eğitim Merkezi, 2013

### Dissertations

Doctorate, EGF İçeren Farklı Jel Formülasyonlarının Hazırlanması ve Özelliklerinin İncelenmesi, Marmara University, Faculty Of Pharmacy, Pharmaceutical Technology, 2020

### Research Areas

Pharmacology and Therapeutics, Pharmaceutics Technology, Pharmaceutical Biotechnology, Health Sciences

### Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2023 - Continues  
Associate Professor, Northwestern University, Feinberg Faculty of Medicine, 2023 - 2024  
Assistant Professor, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Teknolojisi Bölümü, 2020 - 2023  
Research Assistant, Marmara University, Faculty Of Pharmacy, Pharmaceutical Technology, 2014 - 2020

## Academic and Administrative Experience

Curriculum Preparation Committee Member, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2021 - Continues  
Exam Program Preparation Commission Member, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2021 - Continues  
Head of Department, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2022 - 2025  
Vice Dean, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2022 - 2023  
Internship Committee Member, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2022 - 2023  
Head of Department, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 2022 - 2023  
Assistant Manager of Research and Application Center, Sivas Cumhuriyet University, 2021 - 2023  
Unit Accreditation Board Member, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2021 - 2023  
Program Accreditation-Self-Assessment Committee Member, Sivas Cumhuriyet University, Eczacılık Fakültesi, Eczacılık Fakültesi, 2021 - 2023

## Courses

Eczacılık Mevzuatı ve Deontoloji, Associate Degree, 2021 - 2022  
Farmasötik Biyoteknoloji, Undergraduate, 2021 - 2022  
Araştırma Projesi Uygulama Dersi 2, Undergraduate, 2021 - 2022  
Eczane Teknikerliğine Giriş - II, Associate Degree, 2021 - 2022  
Kariyer Planlama, Undergraduate, 2020 - 2021  
Araştırma Projesi Uygulama Dersi I, Undergraduate, 2021 - 2022, 2020 - 2021  
Rekombinant DNA Teknolojisi ile Üretilen İlaçlar, Undergraduate, 2021 - 2022  
Rekombinat DNA Teknolojisi ile Üretilen İlaçlar, Undergraduate, 2020 - 2021

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sivas Cumhuriyet Üniversitesi, November, 2021

## Taught Courses And Trainings

Doğan M., Erasmus Teaching Mobility Programme (Italy), 2022 - 2022

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

- I. Sublingual  $\beta$ -Glucan/Vitamin C-loaded nanoparticle-embedded polyethylene oxide nanofibrous mats**  
GÜLER E., Yekeler H. B., Tekinalp S. G., Parviz G., DOĞAN M., EKENTOK ATICI C., ÇAM M. E.  
Journal of Drug Delivery Science and Technology, vol.102, 2024 (SCI-Expanded)
- II. In Vitro Neuroprotective Effect Evaluation of Donepezil-Loaded PLGA Nanoparticles-Embedded PVA/PEG Nanofibers on SH-SY5Y Cells and AP-APP Plasmid Related Alzheimer Cell Line Model**

- Güler E., Yekeler H. B., Üner B., Doğan M., Asghar A., Ikram F., Yazır Y., Gündüz O., Kalaskar D., Çam M. E. *MACROMOLECULAR MATERIALS AND ENGINEERING*, vol.2400160, no.160, pp.1-14, 2024 (SCI-Expanded)
- III. **Analysis of the mechanisms underlying the anticancer and biological activity of retinoic acid and chitosan nanoparticles containing retinoic acid**  
Doğan M.  
*MEDICAL ONCOLOGY*, no.41, pp.1-10, 2024 (SCI-Expanded)
- IV. **Design and in vitro evaluation of curcumin-loaded PLGA nanoparticle-embedded sodium alginate/gelatin 3D printed scaffolds for Alzheimer's disease**  
Yekeler H. B., Guler E., Beato P. S., Priya S., Abobakr F. K. M., Doğan M., Uner B., Kalaskar D. M., Cam E.  
*International Journal of Biological Macromolecules*, vol.268, 2024 (SCI-Expanded)
- V. **Vitamin B12-loaded chitosan-based nanoparticle-embedded polymeric nanofibers for sublingual and transdermal applications: Two alternative application routes for vitamin B12**  
Güler E., Yekeler H. B., Parviz G., Aydın S., Asghar A., Doğan M., İkrām F., M Kalaskar D., Çam M. E.  
*INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES*, vol.258, no.128635, pp.1-16, 2024 (SCI-Expanded)
- VI. **Molecular hybrids integrated with imidazole and hydrazone structural motifs: Design, synthesis, biological evaluation, and molecular docking studies**  
Tapera M., Kekeçmuhammed H., SARIPINAR E., DOĞAN M., TÜZÜN B., KOÇYİĞİT Ü. M., Çetin F. N.  
*Journal of Molecular Liquids*, vol.391, 2023 (SCI-Expanded)
- VII. **Composition characterization and biological activity study of Achillea vermicularis extract and extract-loaded nanoparticles.**  
Doğan M., Koçyiğit Ü. M., Çetin F. N., Yılmaz B. N., Taşkın T.  
*Biotechnology and applied biochemistry*, vol.70, no.3, pp.1270-1278, 2023 (SCI-Expanded)
- VIII. **Synthesis, carbonic anhydrase inhibitory activity, anticancer activity and molecular docking studies of new imidazolyl hydrazone derivatives**  
Tapera M., Kekeçmuhammed H., TÜZÜN B., SARIPINAR E., KOÇYİĞİT Ü. M., Yıldırım E., DOĞAN M., Zorlu Y.  
*Journal of Molecular Structure*, vol.1269, 2022 (SCI-Expanded)
- IX. **Determination of biological studies and molecular docking calculations of isatin-thiosemicarbazone hybrid compounds**  
Koçyiğit Ü. M., Doğan M., Muğlu H., Taslimi P., Tüzün B., Yakan H., Bal H., Güzel E., Gülçin İ.  
*Journal of Molecular Structure*, vol.1264, 2022 (SCI-Expanded)
- X. **Synthesis and characterization of chitosan-PVA hydrogel containing PEGylated recombinant epidermal growth factor on cell culture for wound healing substitute**  
Doğan M., Şahbaz S., Uğurlu T., Sezer A. D.  
*BRAZILIAN JOURNAL OF PHARMACEUTICAL SCIENCES*, vol.58, pp.1-19, 2022 (SCI-Expanded)
- XI. **Assessment of mechanism involved in the apoptotic and anti-cancer activity of Quercetin and Quercetin-loaded chitosan nanoparticles.**  
Dogan M.  
*Medical oncology (Northwood, London, England)*, vol.39, no.11, pp.176, 2022 (SCI-Expanded)
- XII. **Synthesis and biological evaluation of thiosemicarbazone derivatives**  
DOĞAN M., KOÇYİĞİT Ü. M., Gurdere M. B., CEYLAN M., Budak Y.  
*MEDICAL ONCOLOGY*, vol.39, no.10, 2022 (SCI-Expanded)
- XIII. **Bioassay-guided isolation and antiproliferative efficacy of extract loaded in chitosan nanoparticles and LC-QTOF-MS/MS analysis of Achillea magnifica**  
Taşkın T., Dogan M., Arabacı T.  
*South African Journal of Botany*, vol.133, pp.236-244, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Preparation and characterization of chitosan nanoparticles with extracts of Rheum ribes, evaluation**

**of biological activities of extracts and extract loaded nanoparticles**

DOĞAN M., KOÇYIĞİT Ü. M., TAŞKIN D., Yılmaz B. n., TAŞKIN T.

INTERNATIONAL JOURNAL OF SECONDARY METABOLITE, vol.11, no.4, pp.751-764, 2024 (Scopus)

- II. **Synthesis of Nanoparticles Loading Indenopyrazole Derivatives and Evaluation of Biological Features**  
DOĞAN M., KOÇYIĞİT Ü. M., GEZEĞEN H.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, pp.830-834, 2022 (Peer-Reviewed Journal)
- III. **In vitro bioactivity and gene silencing effect of shRNA-VEGF loaded chitosan nanoparticles**  
DOĞAN M.  
Turkish Journal of Science and Health, vol.3, no.3, pp.236-245, 2022 (Peer-Reviewed Journal)
- IV. **Preparation of Chitosan-Polyvinyl Prolidone (PVP) Hydrogels with Fibroblast Growth Factor (FGF) and Investigation of in Vitro Characteristics**  
DOĞAN M.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, no.2, pp.418-422, 2022 (ESCI)
- V. **Characterization of Nanoparticles Containing Achillea Phrygia and Their Antioxidant and Antiproliferative Properties**  
Doğan M., Taşkın D., Ermanoğlu M., Arabacı T.  
CUMHURİYET SCIENCE JOURNAL, vol.43, no.1, pp.27-32, 2022 (Peer-Reviewed Journal)
- VI. **The Role of Cisplatin Loaded Biocompatible Nanoparticles in Cancer Treatment**  
Kumtepe T., DOĞAN M.  
CUMHURİYET SCIENCE JOURNAL, vol.43, pp.183-187, 2022 (Peer-Reviewed Journal)
- VII. **Preparation of resveratrol containing poly (lactic-co-glycolic acid) nanoparticles and investigation of its cytotoxic effect in C6 glioma cells**  
DOĞAN M., Gurgah F. Z.  
JOURNAL OF RESEARCH IN PHARMACY, vol.26, no.4, pp.911-919, 2022 (ESCI)
- VIII. **Investigation of the effect of paracetamol against glutamate-induced cytotoxicity in C6 glia cells**  
Doğan M., Yıldızhan K.  
Cumhuriyet Science Journal, vol.42, no.4, pp.789-794, 2021 (Peer-Reviewed Journal)
- IX. **Achillea gonioccephala Extract Loaded into Nanochitosan: In Vitro Cytotoxic and Antioxidant Activity**  
Taşkın D., Doğan M., Ermanoğlu M., Arabacı T.  
Clinical and Experimental Health Science, vol.11, no.4, pp.659-666, 2021 (ESCI)
- X. **Plasmid DNA isolation and characterization studies**  
Doğan M.  
Cumhuriyet Medical Journal, vol.43, no.3, pp.226-231, 2021 (Peer-Reviewed Journal)
- XI. **Preparation of chitosan nanoparticles and characterization studies**  
Doğan M.  
Cumhuriyet Medical Journal, vol.42, no.3, pp.344-350, 2020 (Peer-Reviewed Journal)
- XII. **Phytochemical screening and evaluation of antioxidant, enzyme inhibition, anti-proliferative and calcium oxalate anti-crystallization activities of Micromeria fruticosa spp. brachycalyx and Rhus coriaria**  
Taşkın T., Doğan M., Yılmaz B. N., Şenkardeş İ.  
BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol.27, 2020 (ESCI)
- XIII. **In vitro anti-urease, antioxidant, anticholinesterase, cytotoxic and in vivo anti inflammatory of Satureja cuneifolia Ten.**  
Taşkın T., Doğan M., Çam M. E., Şenkardeş İ.  
Notulae Scientia Biologicae, vol.12, no.2, pp.222-232, 2020 (Peer-Reviewed Journal)
- XIV. **Evaluation of the knowledge and opinions of university students in rational drug use**  
Doğan M., Saraç B.  
Cumhuriyet Medical Journal, vol.42, no.1, pp.49-55, 2020 (Peer-Reviewed Journal)
- XV. **Synthesis of crosslinked PVA/Chitosan hydrogels loaded EGF and evaluation in vitro characterization**

Doğan M., Sezer A. D.

Cumhuriyet Medical Journal, vol.42, no.1, pp.86-93, 2020 (Peer-Reviewed Journal)

XVI. **Effect of captopril on oxidative damage in pentylenetetrazole induced SHSY-5Y human neuroblastoma cell line**

DOĞAN M., KARADEMİR M.

Cumhuriyet Tıp Dergisi (ELEKTRONİK), 2020 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Mide Kanseri Tedavisinde Viral Vektörlerin Kullanılması ve Güncel Yaklaşımlar**

DOĞAN M.

in: Mide Kanseri Tanı ve Tedavi, Ataseven Hilmi, Özden Hüseyin, Gömeç Muhammed, Editor, Cumhuriyet Üniversitesi Yayınları, Sivas, pp.263-274, 2022

II. **Mide Kanseri Tedavisinde İlaç Teknolojileri ve İlaç Hedefleme**

DOĞAN M.

in: Mide Kanseri Tanı ve Tedavi, Ataseven Hilmi, Hüseyin Özden, Muhammed Gömeç, Editor, Cumhuriyet Üniversitesi Yayınları, Sivas, pp.253-262, 2022

III. **Cancer In All Aspects**

Doğan M.

in: Her Yönüyle Kanser, Prof. Dr. Hilmi Ataseven, Doç. Dr. Koray Sayın, Editor, Cumhuriyet Üniversitesi Yayınları, Sivas, pp.555-563, 2020

## Refereed Congress / Symposium Publications in Proceedings

I. **Heracleum sphondylium subsp. ternatum Bitkisinin Antimikrobiyal, Antikolinesteraz ve Sitotoksik Aktiviteleri**

Özdemir M., Süzgeç Selçuk S., Taşkın T., Özbek Çelik B., Doğan M.

XXIV. Bitkisel İlaç Hammadeleri Toplantısı, Ankara, Turkey, 23 - 26 June 2022, pp.167-168

II. **Use of Viral Vectors in Gastric Cancer Treatment and Current Approaches**

DOĞAN M.

II. International Cancer Days Congress, Sivas, Turkey, 16 - 18 September 2021

III. **PHARMACEUTICAL TECHNOLOGIES AND DRUG TARGETING IN GASTRIC CANCER TREATMENT**

Doğan M.

II. International Cancer Days Congress, Sivas, Turkey, 16 - 18 September 2021, vol.1, pp.148-156

IV. **THE ROLE OF CISPLATIN LOADED BIOCOMPATIBLE NANOPARTICLES IN CANCER TREATMENT**

Doğan M., Kumtepe T.

II. International Cancer Days Congress, Sivas, Turkey, 16 - 18 September 2021, vol.1, pp.187-194

V. **PREPARATION OF NANOPARTICLES CONTAINING RESVERATROL AND STUDIES ON CELL CULTURE**

Doğan M., Gürğah F. Z.

II. International Cancer Days Congress, Sivas, Turkey, 16 - 18 September 2021, vol.1, pp.157-162

VI. **Effects of Achillea Sipikorensis Extract -Loaded Nanoparticles on MCF-7 and HT-29 Cell Lines**

DOĞAN M., ERMANOĞLU M., TAŞKIN D., ARABACI T.

III. International Agricultural, Biological & Life Science Conference, Turkey, 01 September 2021

VII. **Effectiveness of Achillea Gonioccephala Loaded Nanoparticle Encapsulation on Antioxidant and Cytotoxic Properties**

TAŞKIN D., DOĞAN M., ERMANOĞLU M., ARABACI T.

13th International Symposium on Pharmaceutical Sciences, 22 June 2021

VIII. **Assessment of Antioxidant and Anticancer Activities of Achillea Phrygia Extract Loaded Chitosan Nanoparticles**

TAŞKIN D., DOĞAN M.

13th International Symposium on Pharmaceutical Sciences (ISOPS), Turkey, 22 June 2021

**IX. MONOCLONAL ANTIBODIES USED IN CANCER TREATMENT**

Doğan M.

Nazim Huseynli -65 International Scientific Research Congress, Baku, Azerbaijan, 30 April 2021, pp.223-228

**X. İNDENOPİRAZOL TÜREVİ BİLEŞİKLERİ İÇEREN KİTOZAN NANOPARTİKÜLLERİN HAZIRLANMASI VE KARAKTERİZASYONU**

DOĞAN M., GEZEĞEN H.

INTERNATIONAL GEVHER NESİBE HEALTH SCIENCES CONFERENCE-VII, Turkey, 16 - 17 April 2021

**XI. PREPARATION AND CHARACTERIZATION OF CHITOSAN NANOPARTICLES CONTAINING INDENOPYRAZOLE DERIVATIVE COMPOUNDS**

Doğan M., Gezeğen H.

INTERNATIONAL GEVHER NESİBE HEALTH SCIENCES CONFERENCE-VII, Kayseri, Turkey, 16 - 17 April 2021, pp.233-234

**XII. MECHANICAL AND BIOADHESION PROPERTIES OF EPIDERMAL GROWTH FACTOR (EGF) CONTAINING HYDROGEL FORMULATIONS**

Doğan M., Sezer A. D., Şahbaz S., Uğurlu T.

International Pharmaceutical Technology Symposium, Antalya, Turkey, 17 - 19 September 2018, vol.19, pp.244-245

**XIII. PREPARATION AND CHARACTERIZATION OF EGF CONTAINING HYDROGEL FORMULATIONS**

Doğan M., Sezer A. D., Şahbaz S., Uğurlu T.

12TH INTERNATIONAL SYMPOSIUM ON PHARMACEUTICAL SCIENCES, Ankara, Turkey, 26 - 29 June 2018, vol.121, pp.324

## Supported Projects

Doğan M., Adlı M., TUBITAK Project, Determination and application of drug molecules that can have a synergistic effect with Carboplatin by using CRISPR scanning and imaging method in the treatment of ovarian cancer, 2023 - 2024

Doğan M., Taşkın T., Şenkardeş İ., Rayaman E., Tatar E., Elçioğlu H. K., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Teucrium chamaedrys subsp. chamaedrys ve Teucrium divaricatum subsp. villosum Bitkilerinin Biyolojik Aktivitelerinin İncelenmesi, Fenolik Bileşiklerinin Analizi ve Lipozom

Formülasyonlarının Hazırlanması, 2022 - 2023

Doğan M., Taşkın T., Çam M. E., Özdatlı Kurtuluş Ş., Aydın S., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), SİDERİTİS TÜRÜ BİTKİ EKSTRELERİ YÜKLÜ NANOPARTİKÜLLERİN ÜRETİMİ, KARAKTERİZASYONU VE ANTI-ALZHEİMER ETKİLERİNİN İN VİTRO VE İN VİVO OLARAK BELİRLENMESİ, 2022 - 2023

Doğan M., Gürgah F. Z., TUBITAK Project, Resveratrol İçeren Polilaktik-Ko-Glikolik Asit Nanopartiküllerin Hazırlanması ve C6 Glioma Hücrelerinde Sitotoksik Etkisinin Araştırılması, 2021 - 2022

Doğan M., Kumtepe T., TUBITAK Project, Sisplatin Yüklü Kitozan Nanopartiküllerin Hazırlanması ve MDA-MB Meme Kanseri Hücre Hattında Sitotoksik Etkisinin Araştırılması, 2021 - 2022

Doğan M., Sezer A. D., Project Supported by Higher Education Institutions, EGF İçeren Farklı Jel Formülasyonlarının Hazırlanması ve Özelliklerinin İncelenmesi, 2016 - 2020

## Activities in Scientific Journals

Journal of Research in Pharmacy, Editor, 2022 - Continues

## Memberships / Tasks in Scientific Organizations

Farmasötik Biyoteknoloji Derneği, Member, 2016 - Continues, Turkey

## Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Sivas Cumhuriyet University, Turkey, September 2024  
Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, July 2024

Turkish Journal of Science and Health, Other Indexed Journal, April 2022

JOURNAL OF RESEARCH IN PHARMACY (ONLINE), National Scientific Refreed Journal, March 2022

JOURNAL OF RESEARCH IN PHARMACY (ONLINE), National Scientific Refreed Journal, December 2021

Cumhuriyet Science Journal, National Scientific Refreed Journal, October 2021

Cumhuriyet Science Journal, National Scientific Refreed Journal, September 2021

TUBITAK Project, 2209-B - Sanayiye Yönelik Lisans Araştırma Projeleri Destekleme Programı, Sivas Cumhuriyet University, Turkey, August 2021

Cumhuriyet Science Journal, National Scientific Refreed Journal, March 2021

Cumhuriyet Science Journal, National Scientific Refreed Journal, February 2021

## Metrics

Publication: 45

Citation (WoS): 70

Citation (Scopus): 78

H-Index (WoS): 7

H-Index (Scopus): 7

## Scholarships

2219 Yurtdışı Doktora Sonrası Araştırmacı Bursu, TUBITAK, 2023 - 2024

## Awards

Doğan M., TÜBİTAK Uluslararası Bilimsel Yayın Teşvik Ödülü, Tübitak, January 2023

Doğan M., TÜBİTAK Uluslararası Bilimsel Yayın Teşvik Ödülü, Tübitak, December 2022

Doğan M., TÜBİTAK Uluslararası Bilimsel Yayın Teşvik Ödülü, Tübitak, January 2022

## Non Academic Experience

Miraç Eczanesi

Hospital, Darende Devlet Hastanesi, Eczane