

# Prof. HÜLYA CABADAK

## Personal Information

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## International Researcher IDs

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Yoksis Researcher ID: 133052

## Dissertations

Doctorate, Muskarinik reseptörlerin gen ekspresyonu üzerine çalışmalar, Marmara Üniversitesi, School of Medicine, 1997

Postgraduate, İnsan periferik kan ve fibroblast hücre kültürlerinin sinkronizasyonu ve Sinkronize hücre kültürlerinden kromozom analizi ve karyotip hazırlanması, Gazi Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 1988

## Research Areas

Health Sciences

## Academic Titles / Tasks

Professor, Marmara University, School of Medicine, Basic Medical Sciences, 2018 - Continues

Professor, Marmara University, School of Medicine, Basic Medical Sciences, 2012 - Continues

## Academic and Administrative Experience

Marmara University, School of Medicine, Basic Medical Sciences, 2018 - Continues

## Courses

Membranda Sinyal iletisi, Doctorate, 2021 - 2022

Seminer, Postgraduate, 2021 - 2022

## Advising Theses

CABADAK H., Fluoksetin ile tedavi edilen post travmatik stres bozukluğu sıçan modelinde gen ekspresyon çalışmaları, Doctorate, A.Aykaç(Student), 2012

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, December, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Marmara Üniversitesi, December, 2019

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

- I. **Fisetin and/or capecitabine causes changes in apoptosis pathways in capecitabine-resistant colorectal cancer cell lines.**  
Zehra K., Banu A., Can E., Hülya C.  
Naunyn-Schmiedeberg's archives of pharmacology, 2024 (SCI-Expanded)
- II. **Potential antiproliferative and apoptotic effects of pilocarpine combined with TNF alpha in chronic myeloid leukemia cells**  
Kanlı Z., Cabadak H., Aydın Omay B.  
Naunyn-Schmiedeberg's Archives of Pharmacology, vol.396, no.7, pp.1513-1524, 2023 (SCI-Expanded)
- III. **The effect of acute topiramate administration on morphine withdrawal syndrome and brain-derived neurotrophic factor in central nervous system**  
Özkula S., Jafarova Demirkapu M., Yananlı H. R., Aydın B., Nacar C., Cabadak H.  
NEUROLOGICAL RESEARCH, vol.45, no.8, pp.730-737, 2023 (SCI-Expanded)
- IV. **The Effect of Metformin on Ethanol- and Indomethacin Induced Gastric Ulcers in Rats**  
İpek B. E., Yüksel M., Cumbul A., Ercan F., Cabadak H., Aydın Omay B., Alican İ.  
The Turkish journal of gastroenterology : the official journal of Turkish Society of Gastroenterology, vol.33, no.9, pp.767-776, 2022 (SCI-Expanded)
- V. **Cross-talk of cholinergic and beta-adrenergic receptor signalling in chronic myeloid leukemia K562 cells**  
Aydın Omay B., Gören M. Z., Kanlı Z., Cabadak H.  
CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY, vol.49, no.4, pp.515-524, 2022 (SCI-Expanded)
- VI. **Studies on the role of alpha 7 nicotinic acetylcholine receptors in K562 cell proliferation and signaling**  
Önder Narin G., Aydın B., Cabadak H.  
MOLECULAR BIOLOGY REPORTS, vol.48, no.6, pp.5045-5055, 2021 (SCI-Expanded)
- VII. **The Neurochemical Effects of Prazosin Treatment on Fear Circuitry in a Rat Traumatic Stress Model**  
Ketenci S., Acet N. G., Sarıdoğan G. E., Aydın B., Cabadak H., Gören M. Z.  
CLINICAL PSYCHOPHARMACOLOGY AND NEUROSCIENCE, vol.18, pp.219-230, 2020 (SCI-Expanded)
- VIII. **Role of cholinergic agents in proliferation and caspase activity of hemin-induced erythroid differentiated K562 cells**  
Cabadak H., Aydın B.  
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.40, pp.42-48, 2020 (SCI-Expanded)
- IX. **Investigation of the Role of M3 muscarinic receptor in Chronic Myeloid Leukemic Cells.**  
Kanlı Z., Aydın B., Cabadak H.  
TURKISH JOURNAL OF BIOLOGY, vol.43, no.5, pp.70, 2019 (SCI-Expanded)
- X. **The Effect of Cholinergic Receptors Agonist/ Antagonists Together with Anticancer Drug 5-FU in Hepatocellular Carcinoma**  
Tanrıverdi A. M., Küçük O. Y., Aydın B., Cabadak H.  
Turkish Journal Of Biology, vol.43, no.5, pp.24, 2019 (SCI-Expanded)
- XI. **Contribution of M-1 and M-2 muscarinic receptor subtypes to convulsions in fasted mice treated with scopolamine and given food**  
Bacanak M., Aydın B., Cabadak H., Nurten A., Goren M. Z., Enginar N.

BEHAVIOURAL BRAIN RESEARCH, vol.364, pp.423-430, 2019 (SCI-Expanded)

- XII. **Investigation of the Roles of Non-neuronal Acetylcholine in Chronic Myeloid Leukemic Cells and their Erythroid or Megakaryocytic Differentiated Lines**  
Aydın B., Cabadak H., Gören M. Z.  
ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.18, pp.1440-1447, 2018 (SCI-Expanded)
- XIII. **D-Cycloserine acts via increasing the GluN1 protein expressions in the frontal cortex and decreases the avoidance and risk assessment behaviors in a rat traumatic stress model**  
Saridogan G. E., Aykac A., Cabadak H., Cerit C., Caliskan M., Gören M. Z.  
BEHAVIOURAL BRAIN RESEARCH, vol.293, pp.227-233, 2015 (SCI-Expanded)
- XIV. **Altered ratio of proapoptotic and antiapoptotic proteins in different brain regions of female rats in model of post-traumatic stress disorder**  
Aykac A., GÖREN M. Z., Cabadak H.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.40, no.1, pp.1-7, 2015 (SCI-Expanded)
- XV. **The role of intracellular pathways in the proliferation of human K562 cells mediated by muscarinic receptors**  
Aydın B., Kan B., Cabadak H.  
LEUKEMIA RESEARCH, vol.37, pp.1144-1149, 2013 (SCI-Expanded)
- XVI. **Increased Noradrenaline Levels in the Rostral Pons can be Reversed by M1 Antagonist in a Rat Model of Post-traumatic Stress Disorder**  
Terzioglu B., Kaleli M., Aydın B., Ketenci S., Cabadak H., Gören M. Z.  
NEUROCHEMICAL RESEARCH, vol.38, no.8, pp.1726-1733, 2013 (SCI-Expanded)
- XVII. **The change in muscarinic receptor subtypes in different brain regions of rats treated with fluoxetine or propranolol in a model of post-traumatic stress disorder**  
Aykac A., Aydın B., Cabadak H., Gören M. Z.  
BEHAVIOURAL BRAIN RESEARCH, vol.232, pp.124-129, 2012 (SCI-Expanded)
- XVIII. **Regulation of M-2, M-3, and M-4 muscarinic receptor expression in K562 chronic myelogenous leukemic cells by carbachol**  
Cabadak H., Aydın B., Kan B.  
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.31, pp.26-32, 2011 (SCI-Expanded)
- XIX. **The Role of G Protein beta 3 Subunit Polymorphisms C825T, C1429T, and G5177A in Turkish Subjects with Essential Hypertension**  
CABADAK H., ORUN O., NACAR C., Dogan Y., Guneyssel O., FAK A. S., KAN B.  
CLINICAL AND EXPERIMENTAL HYPERTENSION, vol.33, no.3, pp.202-208, 2011 (SCI-Expanded)
- XX. **Muscarinic receptor mediated cAMP response in human K562 chronic myelogenous leukemia cells**  
Cabadak H., Aydın B., Kan B.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.36, pp.188-192, 2011 (SCI-Expanded)
- XXI. **Investigation of the Association Between Dopamine D1 Receptor Gene Polymorphisms and Essential Hypertension in a Group of Turkish Subjects**  
Orun O., Nacar C., Cabadak H., Tiber P., Dogan Y., Guneyssel O., Fak A. S., Kan B.  
CLINICAL AND EXPERIMENTAL HYPERTENSION, vol.33, no.6, pp.418-421, 2011 (SCI-Expanded)
- XXII. **M-2, M-3, and M-4 muscarinic receptors are expressed in the guinea pig gallbladder**  
Cabadak H., Cuadra A. E., El-Fakahany E. E., Kan B.  
JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION, vol.29, no.1, pp.63-66, 2009 (SCI-Expanded)
- XXIII. **Methoctramine and gallamine inhibit PI hydrolysis in guinea-pig gallbladder**  
Cabadak H., Kan B.  
VASCULAR PHARMACOLOGY, vol.43, no.4, pp.242-246, 2005 (SCI-Expanded)
- XXIV. **Carbachol induces nitric oxide generation in the guinea-pig gallbladder**  
Oktay S., Cabadak H., Iskender E., Kan B., Ulusoy N., El-Fakahany E.  
GASTROENTEROLOGY, vol.116, no.4, 1999 (SCI-Expanded)
- XXV. **Evidence for the presence of muscarinic M2 and M4 receptors in guinea-pig gallbladder smooth muscle.**

## Articles Published in Other Journals

- I. **The role of epidermal growth factor and cholinergic receptor agonists and antagonists in MAPK signal transduction in K562 cells**  
Atmaca S. G., Aydın Omay B., Cabadak H.  
MARMARA MEDICAL JOURNAL, vol.1, no.37, pp.86-91, 2024 (ESCI)
- II. **Relationship Between GRK4 Polymorphisms and Essential Hypertension. A Study in A Group of Turkish Subjects**  
Yıldız H., Kan B., Orun O., Nacar C., Doğan Y., Güneysel Ö., Cabadak H.  
Acibadem Üniversitesi Sağlık Bilimleri Dergisi, vol.15, no.1, pp.11-17, 2024 (Peer-Reviewed Journal)
- III. **The behavioral and neurochemical effects of methylprednisolone and metyrapone in a post-traumatic stress disorder rat model**  
Tanriverdi Bademci A. M., Aydın B., Terzioğlu Bebitoğlu B., Cabadak H., Gören M. Z.  
Northern Clinics of Istanbul, vol.6, no.4, pp.327-333, 2019 (Peer-Reviewed Journal)
- IV. **The Effect of Low Dose Sildenafil on Verapamil–Induced Cardiovascular Toxicity in Rats**  
Gül F., Duman N., Arslantas M. K., Aydın B., Cabadak H., Haliloğlu M., Cinel İ. H., Gören M. Z.  
SOJ Anesthesiology Pain Management, vol.4, pp.1-4, 2017 (Peer-Reviewed Journal)
- V. **The role of GluN1 activated nitric oxide synthase in a rat model of post-traumatic stress disorder**  
Ayhan B. G., Aykac A., Gur K., Aydın B., Secgin E., Seven I., Cabadak H., Gören M. Z.  
MARMARA MEDICAL JOURNAL, vol.29, pp.67-72, 2016 (ESCI)
- VI. **The role of Glu N1 activated nitric oxide synthase in rat model of post traumatic stress disorder**  
ayhan B. G., AYKAÇ A., gür k., AYDIN B., Seçgin E., Seven İ., CABADAK H., GÖREN M. Z.  
MARMARA MEDICAL JOURNAL, vol.29, no.2, pp.67-72, 2016 (Scopus)
- VII. **Post-Traumatic Stress Disorder: The Importance of Apoptosis**  
Aykaç A., Cabadak H.  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.6, pp.173-177, 2016 (ESCI)
- VIII. **Association of Agt Gnb3 and Enos gene polymorphisms with cardiovascular parameters in a Turkish population with essential hypertension**  
MEGA TİBER P., ORUN O., KOCAKAYA O., NACAR C., CABADAK H., FAK A. S., KAN B.  
Exp Clin Cardiol, vol.20, 2014 (Peer-Reviewed Journal)
- IX. **Muscarinic Agonist, Antagonists and Signaling Pathway Inhibitors Change c-Fos And Cyclin D1 Expression in K562 Cells**  
Cabadak H., Aydın B., Kan B.  
MARMARA MEDICAL JOURNAL, vol.26, pp.72-76, 2013 (Scopus)
- X. **Muscarinic receptor-mediated nitric oxide release in a K562 erythroleukaemia cell line**  
Cabadak H., Küçükbrahimoğlu E., Aydın B., Kan B., Gören M. Z.  
Autonomic and Autacoid Pharmacology, vol.29, pp.109-115, 2009 (Scopus)
- XI. **Hücre Siklusu ve Kanser**  
CABADAK H.  
. ADÜ Tıp Fakültesi dergisi, vol.9, pp.51, 2008 (Peer-Reviewed Journal)
- XII. **Sıçan Beyininde G Proteinlerinin Karakterizasyonu**  
CABADAK H., KAN B.  
Cerrahpasa Tıp Dergisi, vol.36, no.4, pp.200, 2005 (Peer-Reviewed Journal)
- XIII. **Carbachol induces Nitric Oxide generation in guinea pig gallbladder**  
Ece İ., CABADAK H., KAN B., GÖREN M. Z., Şule O., Atilla K., AKICI A., Nefise B. U.  
Marmara Medical Journal, vol.151, pp.7-14, 2002 (Scopus)
- XIV. **Muscarinic receptor mediated phosphoinositide hydrolysis in rat brain**

CABADAK H., KAN B.

Marmara Medical Journal, vol.12, pp.25-27, 1999 (Scopus)

## Books & Book Chapters

- I. **M2 and M3 Muscarinic Receptor Expression in Bladder Cancer**  
Asutay K., Aydın Omay B., Filinte D., Cabadak H., Tinay İ.  
in: ICOFMEP 2021 Congress Proceedings Book Paperback – July 9, 2021 by Bahar Uslu (Ed ) (Author), Ahmet 350en (Ed ) (Author), Kenan Demir (Ed ) (Author), Asutay K., Aydın Omay B., Toper M. H., Filinte D., Cabadak H., Tinay İ, Editor, Scholars' Press (July 9, 2021), İstanbul, pp.161-170, 2021
- II. **Neurochemical effects of methylprednisolone and metyrapone therapy in post-traumatic stress disorder**  
Tanrıverdi Bademci A. M., Aydın Omay B., Gören M. Z., Cabadak H.  
in: International Marmara Sciences Congress (Spring 2021) Proceedings Book , Arif Özkan, Serdar Biroğlu, Ömer Güngör, İsmail Kılıçaslan Kazım Kahraman Çağatay Taşdemirci, Editor, Imascon, Kocaeli, pp.331-336, 2021
- III. **Metilprednizolon ve metirapon tedavilerinin travma sonrası stres bozukluğunda nörokimyasal etkileri**  
TANRIVERDİ BADEMCİ A. M., AYDIN OMA Y B., GÖREN M. Z., CABADAK H.  
in: IMASCONGRESS-International Marmara Sciences Congress (Spring 2021), Arif Özkan, Serdar Biroğlu, Ömer Güngör, İsmail Kılıçaslan, Kazım Kahraman, Çağatay Taşdemirci, Editor, IMASCONGRESS-International Marmara Sciences Congress Spring 2021, Kocaeli, pp.331-336, 2021
- IV. **M2 and M3 Muscarinic Receptor Expression in Bladder Cancer Cells**  
Asutay M. K., AYDIN OMA Y B., TOPER M. H., FİLİNTE D., CABADAK H., TİNAY İ.  
in: ICOFMEP 2021 Congress Proceedings Book , Uslu Bahar , Şen, Ahmet Demir Kenan, Editor, Scholars' press, pp.161-170, 2021
- V. **Bölüm Noradrenaline and Post-traumatic Stress Disorder**  
GÖREN M. Z., CABADAK H.  
in: Comprehensive Guide to Post Traumatic Stress Disorder, Colin R. Martin, Victor R. Preedy and Vinood B. Patel, Editor, Springer, pp.1-16, 2015

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Chemotherapy Drugs Combined with Flavonoid on Colorectal Cancer Cells**  
KANLI Z., AYDIN OMA Y B., ERZİK C., ARĞA K. Y., CABADAK H.  
International Marmara Sciences Congress, Kocaeli, Turkey, 9 - 10 December 2022, pp.41
- II. **Metilprednizolon ve metirapon tedavilerinin travma sonrası stres bozukluğunda nöro- kimyasal etkileri**  
TANRIVERDİ BADEMCİ A. M., AYDIN OMA Y B., GÖREN M. Z., CABADAK H.  
International Marmara Sciences Congress (Spring) 2021, Kocaeli, Turkey, 21 - 22 May 2021

## Metrics

Publication: 113

Citation (WoS): 167

Citation (Scopus): 219

H-Index (WoS): 8

H-Index (Scopus): 9

## **Congress and Symposium Activities**

Mitochondria, apoptosis and cancer (MAC 2015), Working Group, Frankfurt, Germany, 2015

## **Non Academic Experience**

Marmara Üniversitesi

Marmara Üniversitesi

Gazi Üniversitesi

Marmara Üniversitesi