

## **Prof. FEYZA ARICIOĞLU**

### **Personal Information**

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### **International Researcher IDs**

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### **Biography**

Feyza Arıcıoğlu was born on 18.09.1963 in Istanbul. She graduated from Istanbul University, Faculty of Pharmacy in 1986. Professor Arıcıoğlu started her career as a medical residency student at Istanbul University, Istanbul Faculty of Medicine, Department of Pharmacology and Clinical Pharmacology, completed her master's degree in 1988 and doctorate in 1993 at the same department, and received the titles of assistant professor in 1994, associate professor in 1998, and professor in 2004 at Marmara University, Faculty of Pharmacy, Department of Pharmacology. Concurrently, she served as visiting or faculty member at Cornell University, School of Medicine, Department of Neuroscience; University of Mississippi, School of Medicine, Department of Psychiatry; Temple University, School of Medicine, Department of Pharmacology, and Max-Planck Institute, Department of Psychiatry. Her main research area is neuropsychopharmacology. Professor Arıcıoğlu is the founding president of Psychopharmacology Research Unit (1996) within the body of Faculty of Pharmacy at Marmara University, the founder and chief editor of the Journal of Clinical and Experimental Health Sciences (2011-2015, 2018- ), and the academic editor of Psychiatry and Clinical Psychopharmacology (2020-) and Psychiatry and Behavioural Sciences (2020-). She currently is the Director of Institute of Health Sciences at Marmara University (2012-2015, 2018- ), the Ambassador to Turkey for the Organisation for PhD Education in Biomedicine and Health Sciences in the European System (ORPHEUS) (2013- ), and a Member of the Education Commission of the International College of Neuropsychopharmacology (CINP) (2016- ). Professor Arıcıoğlu has been serving as the Council Member of Turkish Higher Education of Quality Council (THEQC) representing CoHE, since January 2022.

### **Education Information**

Doctorate, Istanbul University, Istanbul Medical Faculty, Turkey 1989 - 1993

Postgraduate, Istanbul University, Istanbul Medical Faculty, Division Of Medical Sciences , Turkey 1986 - 1989

Undergraduate, Istanbul University, Faculty Of Pharmacy , Eczacılık Pr., Turkey 1982 - 1986

### **Dissertations**

Doctorate, Aspartaterjik / glutamaterjik sistemin immün yanındaki rolü, İstanbul University, 1993

Postgraduate, Esansiyel hipertansiyonlu olgularda Nifedipin ve Pindolol tedavisi ve bu droqların total kan ve plazma viskozitesine, kan kortizol düzeyine, kanın şekilli elemanlarına, kan ve idrar elektrolitlerine etkileri, İstanbul University, 1989

## **Research Areas**

Medicine, Pharmacology and Therapeutics

## **Academic Titles / Tasks**

Professor, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2004 - Continues  
Associate Professor, University of Mississippi, Medical Faculty, Division Of Neurobiology And Behavior Research., 2003 - 2004  
Associate Professor, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 1998 - 2004  
Research Assistant, Istanbul University, Tıp Fakültesi, 1987 - 1993

## **Academic and Administrative Experience**

Head of Ethics Committee, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2018 - Continues  
Director of The Institution, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2018 - Continues  
Sağlık Ön Değerlendirme Kurulu Başkanlığı , Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2018 - Continues  
CINP Eğitim Komitesi Üyesi , Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2016 - Continues  
ORPHEUS Türkiye Büyükelçisi, Marmara University, Rectorate, 2013 - Continues  
ÖYP Yürütme Kurulu Üyesi, Marmara University, Rectorate, 2014 - 2015  
Girişimsel Olmayan Klinik Araştırmalar Etik Kurul Başkanlığı , Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2012 - 2015  
Bilimsel Araştırma Projeleri Birimi Sağlık Ön Değerlendirme Kurulu Başkanlığı, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2012 - 2015  
Head of Ethics Committee, Marmara University, Institute of Health Sciences, 2012 - 2015  
Fakülte Akreditasyon ve Kalite Geliştirme Komisyonu Üyesi, Marmara University, Faculty of Pharmacy, 2012 - 2015  
Chairman of the BAP Committee, Marmara University, Rectorate, 2012 - 2015  
Director of The Institution, Marmara University, Institute of Health Sciences, 2012 - 2015  
Head of Department, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2012 - 2015  
Erasmus Coordinator, Marmara University, Faculty of Pharmacy, 2005 - 2014  
Konuk Öğretim Üyesi, Universitaet des Saarlandes, Max-Planck Enstitüsü, Psikiyatri, 2011 - 2011  
Konuk Öğretim Üyesi, University of Mississippi, Department of Psychiatry, 2010 - 2011  
Konuk Öğretim Üyesi, Temple University, 2010 - 2010  
Konuk Öğretim Üyesi, Department of Psychiatry, 2004 - 2004  
Konuk Öğretim Üyesi, University of Mississippi, Department of Psychiatry, 2003 - 2004  
Konuk Öğretim Üyesi, University of London, 2003 - 2003  
Konuk Öğretim Üyesi, University of Mississippi, Department of Psychiatry, 2002 - 2002  
Konuk Öğretim Üyesi, Cornell University, Department of Neurology and Neuroscience, 2000 - 2000

## **Advising Theses**

Arıcıoğlu F., Akut uzatılmış stres ile oluşturulan deneysel post-travmatik stres bozukluğu modelinde agmatinin etkilerinin incelenmesi, Postgraduate, Ö.BAYRU(Student), Continues  
ARICIOĞLU F., Sıçanlarda erken dönem anneden ayrılma stres modelinde agmatinin etkilerinin incelenmesi, Postgraduate, C.Yurdaş(Student), 2020  
Arıcıoğlu F., Sıçanlarda kronik öngörülemyen hafif stres ile oluşturulan depresyon modelinde harmanın rolünün

araştırılması, Postgraduate, G.ARKAN(Student), 2017

ARİCİOĞLU F., Sıçanlarda kronik öngörülemeyen stres ile oluşturulan depresyon modelinde harmanın rolünün araştırılması, Postgraduate, G.Arkan(Student), 2017

Arıcıoğlu F., Sıçanlarda kronik öngörülemeyen stres ile oluşturulan depresyon modelinde purinerjik 2x7 reseptörünün rolünün araştırılması, Postgraduate, R.TUĞCE(Student), 2017

Arıcıoğlu F., Ketaminin depresyon nörobiyolojisindeki rolünün sıçanlarda kronik öngörülemeyen stres modelinde araştırılması, Postgraduate, C.YALÇINKAYA(Student), 2017

Arıcıoğlu F., Sıçanlarda MK-801 ile oluşturulmuş şizofreni modelinde nikotinik alfa-7 reseptörlerinin şizofreninin pozitif, negatif ve kognitif semptomları üzerine olası etkilerinin incelenmesi, Doctorate, G.ÜNAL(Student), 2017

Arıcıoğlu F., Sıçanlarda oluşturulan depresyon modelinde nod benzeri reseptör proteini 3 inflamazomu aracılı inflamatuvar yolaklar ve nitriderjik sistem arasındaki ilişkinin araştırılması, Doctorate, C.ÖZKARTAL(Student), 2017

Arıcıoğlu F., Antihistaminiklerin psikomotor performans ve kognitif fonksiyonlar üzerine etkileri, Postgraduate, E.KESKİN(Student), 2016

Arıcıoğlu F., Alzheimer hastalığında imidazolin reseptörlerinin etkisinin araştırılması, Postgraduate, G.YİĞİT(Student), 2013

Arıcıoğlu F., Sıçanlarda deneysel stres modelinde agmatinin etkisinin araştırılması, Postgraduate, E.YARCI(Student), 2011

Arıcıoğlu F., Agmatinin kognitif fonksiyonlara etkisinin araştırılması, Postgraduate, N.IŞIL(Student), 2010

Arıcıoğlu F., Deneysel Alzheimer modelinde agmatinin etkilerinin araştırılması, Postgraduate, M.ŞİRVANCI(Student), 2009

Arıcıoğlu F., İmidazolin-2 reseptörlerinin morfin bağımlılığındaki rolünün araştırılması, Postgraduate, Z.ÇETİN(Student), 2009

Arıcıoğlu F., Pentilentetrazol ile oluşturuluran kindling epilepsi modelinde agmatinin etkisinin araştırılması, Postgraduate, Z.AĞALAR(Student), 2008

ARİCİOĞLU F., Deneysel olarak oluşturulan akut anflamasyon modelleri üzerine agmatinin etkisi, Postgraduate, G.Salanturoğlu(Student), 2005

Arıcıoğlu F., Deneysel olarak oluşturulan akut inflamasyon modelleri üzerine agmatinin etkisi, Postgraduate, G.SALANTUROĞLU(Student), 2005

Arıcıoğlu F., Kimyasal elektriksel olarak oluşturulan epileptic nöbetlerde nitriderjik sistemin rolü, Postgraduate, B.KAN(Student), 2002

ARİCİOĞLU F., Kimyasal ve elektriksel olarak oluşturulan epileptik nöbetlerde nitriderjik sistemin rolü, Postgraduate, B.KAN(Student), 2002

ARİCİOĞLU F., Agmatinin akut ve kronik ağrı modellerindeki etkisi, Postgraduate, E.İLKTAC(Student), 2001

ARİCİOĞLU F., 3,5-Dimetil-1-(2-hidroksietil)-4-Aminopirazol'den türeyen bazı Schiff Bazlarının sentezi ve in vivo metabolizması, Postgraduate, B.ORAL(Student), 2001

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

- I. **The effect of maternal separation stress-induced depression on ovarian reserve in Sprague Dawley Rats: The possible role of imipramine and agmatine through a mTOR signal pathway**  
Önel T., ARİCİOĞLU F., Yıldırım E., Zortul H., Yaba A.  
Physiology and Behavior, vol.269, 2023 (SCI-Expanded)
- II. **The Possible Role of NLRP3 Inflammasome in Depression and Myocardial Infarction Comorbidity**  
BAYSAK E., Yıldırım C., SAYAR N., SAYAR M. K., Halaris A., ARİCİOĞLU F.  
Journal of Personalized Medicine, vol.13, no.9, 2023 (SCI-Expanded)
- III. **Investigation of the protective effect of gel incorporating Eugenia jambolana leaf extract on 5-fluorouracil-induced oral mucositis: an animal study**  
AKSOY N., Sen E., Sukmasari S., BİNGÖL ÖZAKPINAR Ö., ARİCİOĞLU F., YÜCEL Y. Y., Dumlu M. R., Doolaanea A. A., AbdulRahman M. N., OLGAÇ N. V., et al.  
JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY, vol.148, no.8, pp.2153-2162, 2022 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Cannabinoids and neuroinflammation: Therapeutic implications**  
Leonard B. E., ARICIOĞLU F.  
Journal of Affective Disorders Reports, vol.12, 2023 (Scopus)
- II. **Microglial activation mediates maternal separation-induced depressive-like behavior in rats: A neurodevelopmental depression model**  
Yurtdas C., Zortul H., Yilmaz B., ARICIOĞLU F.  
Journal of Affective Disorders Reports, vol.12, 2023 (Scopus)

## **Books & Book Chapters**

- I. **Involvement of Neuroactive Steroids in Pain, Depression and Anxiety**  
MIFFLIN K., BENSON C., KERR B., ARICIOĞLU F., ÇETİN M., DURSUN S., BAKER G.  
in: Pain in Psychiatric Disorders, FINN DAVID, LEONARD BRIAN, Editor, Mod Trends Pharmacopsychiatry, Karger, Basel, pp.94-103, 2015
- II. **Yaşlılarda ağrının kontrolü**  
Arıcıoğlu F.  
in: Adı Eylül (Sağlıkta Yaşlılık), M.Nejat Gacar,Tijen Utkan,Hüsnu Efendi, Editor, Nobel Yayın Dağıtım, İstanbul, pp.233-255, 2009
- III. **Algoloji**  
Arıcıoğlu F.  
in: Hayvanlarda akut ve kronik ağrı modellerinin değerlendirilmesi, Feyza Arıcıoğlu, Editor, Nobel Yayın Dağıtım, İstanbul, pp.299-324, 2004
- IV. **Yaşlılarda ağrı tedavisinde genel kurallar**  
Arıcıoğlu F.  
in: Yaşlılık çağında ağrı, Feyza Arıcıoğlu, Editor, Nobel Yayın Dağıtım, İstanbul, pp.95-111, 2003
- V. **Yenidoğanda ve çocukların farmakokinetik özellikler**  
Arıcıoğlu F.  
in: Çocukluk çağında ağrı , Feyza Arıcıoğlu, Editor, Nobel Yayın Dağıtım, İstanbul, pp.245-254, 2002
- VI. **Opioid analjezikler**  
Arıcıoğlu F.  
in: Çocukluk çağında ağrı, Feyza Arıcıoğlu, Editor, Nobel Yayın Dağıtım, İstanbul, pp.281-300, 2002

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

- I. **Agmatine attenuated sensorimotor gating deficit in schizophrenia model in rats: combination of neonatal MK-801 and isolation rearing.**  
Ünal G., Arıcıoğlu F., Zortul H., Özbeyleli D.  
31th European College of Neuropsychopharmacology (ECNP) Congress, Utrecht, Netherlands, 6 - 09 October 2018
- II. **Nigella sativa extract improved sensorimotor gating deficit on acute ketamine model of schizophrenia in rats**  
ÜNAL G., KELEŞ R. M., TAŞKIN T., ARICIOĞLU F.  
30TH ECNP Congress, 2 - 05 September 2017
- III. **Antidepressant like effect of hydro-alcoholic extract of Nigella sativa in tail suspension test in mice**  
YAVUZ A. N., KELEŞ R. M., ÜNAL G., TAŞKIN T., ARICIOĞLU F.  
29th Congress European College of Neuropsychopharmacology (ECNP), 17 - 20 September 2016

## Metrics

Publication: 274  
Citation (WoS): 1297  
Citation (Scopus): 1080  
H-Index (WoS): 20  
H-Index (Scopus): 20

## Congress and Symposium Activities

Değişimin nörobiyolojisi. Geleceğin e-hali , Attendee, İstanbul, Turkey, 2018  
MUPSA Antistres Days, Attendee, İstanbul, Turkey, 2018  
III. Ulusal Tıp Öğrenci Kongresi: Psikiyatri ve Sinirbilim, Attendee, İstanbul, Turkey, 2018  
I. Ulusal Öğrenci Öğrencilikten Profesyonellige Nörolojik ve Psikiyatrik Hastalıklar, Attendee, Diyarbakır, Turkey, 2018  
VI. International Congress of Molecular Medicine , Invited Speaker, İstanbul, Turkey, 2017  
MUPSA-SPSA Twinnet Project, Invited Speaker, İstanbul, Turkey, 2017  
15. Ulusal Sinirbilim Kongresi, Attendee, Sakarya, Turkey, 2017  
XXI. Deney Hayvanları Kullanım Sertifika Programı Eğitmeni , Attendee, İstanbul, Turkey, 2017  
Psikofarmakoloji Derneği Konferansı, Attendee, İstanbul, Turkey, 2017  
5th International Symposium on Child and Adolescent Psychopharmacology, Invited Speaker, Antalya, Turkey, 2017  
Deney Hayvanları Kullanım Sertifika Programı Eğitmeni, Attendee, İstanbul, Turkey, 2017  
XX. Deney Hayvanları Kullanım Sertifika Programı Eğitmeni , Attendee, İstanbul, Turkey, 2017  
1. Ulusal Marmara Eczacılık Kongresi, Attendee, İstanbul, Turkey, 2016  
Psychiatry Conference, Invited Speaker, Sofija, Bulgaria, 2016  
7th European Congress of Pharmacology, Invited Speaker, İstanbul, Turkey, 2016  
XIX. Deney Hayvanları Kullanım Sertifika Programı Eğitmeni , Attendee, İstanbul, Turkey, 2016  
14. Ulusal Sinirbilim Kongresi, Attendee, Ankara, Turkey, 2016  
8th International Congress on Psychopharmacology and 4 rd International Symposium on Child and Adolescent Psychopharmacology, Invited Speaker, Antalya, Turkey, 2016  
8th International Congress on Psychopharmacology and 4rd International Symposium on Child and Adolescent Psychopharmacology, Invited Speaker, Antalya, Turkey, 2016  
XVI. Deney Hayvanları Kullanım Sertifika Programı Eğitmeni, Attendee, İstanbul, Turkey, 2016  
WPAIC 2015, Invited Speaker, Taipei, Taiwan, 2015  
WPAIC 2015, Invited Speaker, Taipei, Taiwan, 2015  
International Multidisciplinary Symposium on Drug Research and Development, Invited Speaker, Eskişehir, Turkey, 2015  
Yanıbaşımızdaki tehlike: Bağımlılık, Attendee, İzmir, Turkey, 2015  
4. Ulusal Laboratuvar Hayvanları Bilimi Kongresi, Attendee, İstanbul, Turkey, 2015  
XXIII. Ulusal Farmakoloji Kongresi, Attendee, Ankara, Turkey, 2015  
Depresyon nörobiyolojisinde gelişmeler ve yeni tedavi hedefleri, Attendee, İstanbul, Turkey, 2015  
Deney Hayvanları Kullanım Sertifika Programı Eğitmeni, Attendee, İstanbul, Turkey, 2015  
International Postgraduate School in CNS, Invited Speaker, Athens, Greece, 2015  
XVI. Deney Hayvanları Kullanım Sertifika Programı Eğitmeni, Attendee, İstanbul, Turkey, 2015  
XXVII. Sağlık Bilimleri Enstitüleri Toplantısı , Attendee, Manisa, Turkey, 2015  
Türk Farmakoloji Derneği 22. Eğitim Toplantısı, Attendee, Adana, Turkey, 2015  
Bağımlılıklar Sempozyumu, Attendee, İstanbul, Turkey, 2015  
7th International Congress of Psychopharmacology, Invited Speaker, Antalya, Turkey, 2015  
13. Ulusal Sinirbilim Kongresi, Attendee, İstanbul, Turkey, 2015  
MUPSA-SPSA Twinnet Project, Invited Speaker, İstanbul, Turkey, 2015  
Future Treatment of Bipolar Disorders 4th CENESYS , Invited Speaker, Praha, Czech Republic, 2014  
Fourth International Meeting on Pharmacy & Pharmaceutical Sciences, Invited Speaker, İstanbul, Turkey, 2014

- 2nd Euroasian Regional Congress of Biological Psychiatry, Invited Speaker, Bursa, Turkey, 2014
13. Ulusal Ağrı Kongresi, Working Group, İstanbul, Turkey, 2014
- 18th Malaysian Conference on Psychological Medicine (MCPM) and 1st Asian Federation of Psychiatric Associations (AFPA) Regional Meeting, Invited Speaker, Kuala-Lumpur, Malaysia, 2014
- 1st CME CNS, European Postgraduate School in CNS, Invited Speaker, İstanbul, Turkey, 2014
- Marmara Üniversitesi Eczacılık Öğrencileri Birliği, '5. Yıldönümü Öğrenci Çalıştayı' , Working Group, İstanbul, Turkey, 2014
- 6th International Congress of Psychopharmacology , Invited Speaker, Antalya, Turkey, 2014
- 6th International Congress of Psychopharmacology , Invited Speaker, Antalya, Turkey, 2014
- 9th ORPHEUS Meeting, Invited Speaker, Lausanne, Switzerland, 2014
- Avrupa Üniversiteler Birliği Toplantısı, Attendee, İzmir, Turkey, 2014
- 5th International Congress on Psychopharmacology & International Child and Adolescent Symposium, Invited Speaker, Antalya, Turkey, 2013
- Şizofreni Tedavisinde Son durum ve Geleceği, Attendee, İstanbul, Turkey, 2013
- Şizofreni ve Antipsikotik İlaçlar için Temel Psikofarmakoloji, Attendee, İstanbul, Turkey, 2013
25. Türkiye Üniversiteleri Sağlık Bilimleri Enstitüleri Toplantısı, Attendee, İstanbul, Turkey, 2013
- Bosna & Hersek – Türkiye Psikiyatri Sempozyumu, Invited Speaker, Sarajevo, Bosnia And Herzegovina, 2013
- 3rd International Congress on Neurobiology and Psychopharmacology, Invited Speaker, Thessaloniki, Greece, 2013
- 8th Annual Conference of ORPHEUS, Invited Speaker, Praha, Czech Republic, 2013
- Depresyon Nörobiyolojisi ve Tedavisinde Yeni Yaklaşımalar, Attendee, İstanbul, Turkey, 2013
- Akılcı İlaç Kullanımı, Attendee, İstanbul, Turkey, 2013
- Depresyon Nörobiyolojisi, Attendee, İstanbul, Turkey, 2012
- 1st Interdisciplinary Congress on Psychiatry and Related Sciences, Invited Speaker, Athens, Greece, 2012
- Psikofarmakoloji Tedavi Güncellemeye Toplantısı, Attendee, Antalya, Turkey, 2012
- 12.Uluslararası Ağrı Kongresi, Working Group, İstanbul, Turkey, 2012
- Morfin Bağımlılığı ile Başlayan Psikofarmakoloji Yolculuğu, Attendee, İstanbul, Turkey, 2012
- Agmatinergic system and its importance in psychopharmacology, Invited Speaker, Utrecht, Netherlands, 2012
6. Ulusal Anksiyete Kongresi, Working Group, Girne, Cyprus (Kktc), 2011
- Third international meeting on pharmacy and pharmaceutical sciences, Invited Speaker, İstanbul, Turkey, 2010
- 45.Uluslararası Psikiyatri Kongresi, Working Group, Ankara, Turkey, 2009
3. Ulusal Psikofarmakoloji Kongresi, Working Group, İstanbul, Turkey, 2009
- 44.Uluslararası Psikiyatri Kongresi, Working Group, Antalya, Turkey, 2008
10. Ulusal Ağrı 9. Ulusal Rejyonel Anestezi Kongresi, Working Group, İstanbul, Turkey, 2008
- Psikofarmakolojide Yeni Ufuklar Sempozyumu, Working Group, İstanbul, Turkey, 2008
- Psikofarmakoloji Tedavi Güncellemesi, Attendee, Antalya, Turkey, 2008
- The second dual congress on psychiatry and the neurosciences, Invited Speaker, Athens, Greece, 2006
3. Ulusal Bağımlılık Kongresi , Working Group, İstanbul, Turkey, 2006
9. Ulusal Ağrı Kongresi, Working Group, İstanbul, Turkey, 2006
- 1.Uluslararası Psikofarmakoloji Kongresi, Working Group, İstanbul, Turkey, 2005
- Ulusal Biyolojik Psikiyatri Kongresi, Attendee, İzmir, Turkey, 2005
- Santral Sinir Sistemi ve Nitrik Oksit, Attendee, Mersin, Turkey, 2005
- Nitrik Oksitin Psikiyatrideki Geleceği, Attendee, İstanbul, Turkey, 2005
- Agmatinin Psikiyatrideki Yeri, Attendee, Kocaeli, Turkey, 2004
- 33rd Annual Meeting Society for Neuroscience, Invited Speaker, Louisiana, United States Of America, 2003
- 4th International Symposium on Agmatine and Imidazoline Systems, Invited Speaker, California, United States Of America, 2003
- Psychiatry conference serious, Invited Speaker, Mississippi, United States Of America, 2002
- I.Uluslararası Sinirbilimleri Kongresi , Working Group, Eskişehir, Turkey, 2002
- İmidazolin Rezeptörleri ve Agmatin, Attendee, İzmir, Turkey, 2001
- Neurobiology conference series, Invited Speaker, New-York, United States Of America, 2000
- First International Meeting on Pharmacy and Pharmaceutical Sciences, Invited Speaker, İstanbul, Turkey, 1994

Opioid Analjezikler, Attendee, İstanbul, Turkey, 1990

### **Non Academic Experience**

Professional Association, Marmara University, Professional Pharmaceutical Sciences

Professional Association, Marmara University, Professional Pharmaceutical Sciences

University of Mississippi Medical Center

University of Temple

University of Mississippi

University of London

Cornell University