



# ÇİĞDEM SARAÇ

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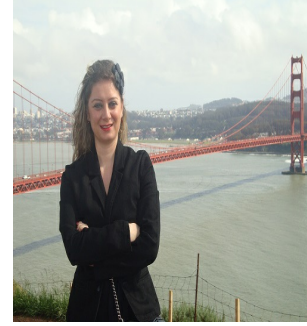
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**International Researcher IDs**

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Publons / Web Of Science ResearcherID: P-4626-2014

Yoksis Researcher ID: 48139



### Learning Knowledge

Doctorate  
2005 - 2012

Middle East Technical University, Faculty Of Arts And Sciences, Department Of  
Biology, Turkey

Postgraduate  
2003 - 2005

Middle East Technical University, Faculty Of Arts And Sciences, Department Of  
Biology, Turkey

### Foreign Languages

English, C2 Mastery

### Certificates, Courses and Trainings

Health&Medicine, Certificate of Animal Use, University of California United States, Davis (UC Davis) Department of  
Pharmacology, 2010

Health&Medicine, Certificate of Animal Use in Experimental Research, Gülhane Askeri Tıp Akademisi, 2008

### Dissertations

Doctorate, Study on the molecular basis of individual variation in spatial memory in rats, Middle East Technical  
University, Graduate School Of Natural And Applied Sciences, 2012

Postgraduate, Mitochondrial DNA (MTDNA) sequence analyses of Kangal dogs in Turkey, Middle East Technical  
University, Graduate School Of Natural And Applied Sciences, 2005

## Academic Titles / Tasks

Associate Professor

2023 - Continues

Akdeniz University, Faculty of Engineering, Department of Biomedical Engineering

Assistant Professor

2016 - Continues

Akdeniz University, Faculty of Engineering, Department of Biomedical Engineering

Research Assistant PhD

2013 - 2016

Akdeniz University, Faculty of Engineering, Department of Environmental Engineering

Research Assistant

2002 - 2013

Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology

## Supported Projects

1. SARAÇ Ç., KARAKURT S., Altunkaya G., Oruç G., Project Supported by Higher Education Institutions, Selenyum nanopartiküllerinin Hypericum perforatum ekstraktı ile yeşil sentezi ve insan tiroid kanserine karşı antikanserojenik etkilerinin araştırılması, 2023 - Continues
2. Saraç Ç., Özen Ş., TUBITAK Project, Resveratrol ile Muamele Edilen Glioblastoma Hücrelerinde Darbeli Elektromanyetik Alan Maruziyetinin Proapoptotik veP13K/AKT/mTOR Sinyal Yolaklarında Olası Moleküler Etkileri, 2023 - 2024
3. DERİN N., KENCEBAY MANAS C., MUNZUROĞLU M., SARAÇ Ç., Project Supported by Higher Education Institutions, Farklı Dozlarda Sodyum Metabisülfite Alımı İle Depresyon Arasındaki İlişkide Nitrik Oksit Rolü, 2021 - 2024
4. Saraç Ç., Kandır S., Çelebioğlu H. U., Karakurt S., TUBITAK Project, Akrep Zehrinde Terapötik Potansiyeli Olan Peptitlerin Tanımlanması ve Kolon Kanseri Üzerine Antikanserojen Etkilerinin Moleküler Düzeyde İncelenmesi, 2021 - 2024
5. SARAÇ Ç., KARAKURT S., DURMUŞ İ. M., ÖZEN Ş., ÇETİN E., Project Supported by Higher Education Institutions, Darbeli Elektromanyetik Alana Kısa ve Uzun Süreli Maruziyetin Oleik Asit ile Muamele Edilen Beyin Hücrelerinde Nöronal Apoptoz Mekanizmaları Üzerine Moleküler Etkileri, 2022 - 2023
6. SARAÇ Ç., ÖZEN Ş., KARAKURT S., ŞİMŞEK T., Project Supported by Higher Education Institutions, Hidrojen Peroksit ile İndüklenmiş Oksidatif Stresli İnsan Beyin Hücre Hattında Darbeli Elektromanyetik Alan Maruziyetinin Bazı Önemli Antioksidan Enzimler Üzerine Etkilerinin Moleküler Yöntemlerle Araştırılması, 2020 - 2022
7. DERİN N., DUMAN Ö., AYDIN ASLAN M., SATI G. L., SARAÇ Ç., Project Supported by Higher Education Institutions, Prenatal postnatal sülfite maruziyetinin davranış ve öğrenme üzerine etkilerinin ve moleküler mekanizmalarının araştırılması, 2018 - 2021
8. DERİN N., AYDIN ASLAN M., SARAÇ Ç., AKÇAY G., Danişman B., KANTAR GÖK D., Project Supported by Higher Education Institutions, Farklı Dozlardaki Sülfite Öğrenme ve Hafıza Üzerindeki Etkilerinde Asetilkolinin Rolü, 2018 - 2021
9. SARAÇ Ç., KARAKURT S., DERİN N., ÖZEN Ş., AKÇAY G., ATEŞ K., Project Supported by Higher Education Institutions, Sıçanlarda 2100 MHz frekansında farklı dozlarda RF-EMA uygulamasının öğrenme performansı ve kolinerjik yolaktaki etkilerinin davranışsal testler ve moleküler yöntemlerle araştırılması, 2018 - 2020
10. SARAÇ Ç., ER H., DERİN N., KANTAR GÖK D., ÖZEN Ş., KENCEBAY MANAS C., Project Supported by Higher Education Institutions, Effects of acute and chronic exposure to both 900MHz and 2100MHz electromagnetic radiation on glutamate receptor signaling pathway, 2017 - 2020
11. DERİN N., DANIŞMAN B., AYDIN ASLAN M., KİPMEN KORGUN D., SARAÇ Ç., AKÇAY G., ÖZKAN A., Project Supported by Higher Education Institutions, Yaşlılığa Bağlı Öğrenme Değişikliklerine LKarnitinin Etkisi ve Moleküler

Mekanizmaları, 2017 - 2020

12. Derin N., Saraç Ç., Satı Duran G. L., TUBITAK Project, Prenatal, Postnatal Sülfid Maruziyetinin Davranış ve Öğrenme Üzerine Etkilerinin ve Moleküler Mekanizmalarının Araştırılması, 2017 - 2019
13. SARAÇ Ç., GEDİK K., ER H., KENCEBAY MANAS C., BAŞARANLAR ÖNCEL G., DERİN N., ÖZEN Ş., Project Supported by Higher Education Institutions, 900-2200 MHz frekans aralığında kullanılan cep telefonlarından yayılan elektromanyetik kirliliğin çevre sağlığı üzerine etki ve mekanizmalarının deneysel olarak araştırılması, 2015 - 2016
14. Saraç Ç., Adalı O., TUBITAK Project, Sıçan hipokampusunda mekansal öğrenmenin farklı safhalarında bazı Sitokrom P450 (CYP450) enzim tiplerinin ekspresyon seviyelerinin "İyi" ve "kötü" öğrenen hayvanlarda incelenmesi ve karşılaştırması, 2014 - 2015
15. Saraç Ç., Marino S. M., TUBITAK Project, Protein veritabanlarındaki reaktif sistein (Cys) rezidülerinin yüksek verimli tahmini için algoritma geliştirilmesi, 2014 - 2015
16. Saraç Ç., Adalı O., Jakubowska Doğru E., TUBITAK Project, Genç Sıçanlarda Mekansal Bellekteki Bireysel Varyasyonun Moleküler Temelinin Araştırılması, 2009 - 2012
17. Adalı O., Saraç Ç., Karakurt S., TUBITAK Project, Yakıtunun Ksenobiyotik Metabolizması Üzerine Etkilerinin ve İlaç-Diyet Etkileşim Potansiyelinin Proteomik ve Moleküler Yaklaşımlar ile Aydınlatılması, 2009 - 2012
18. Saraç Ç., Togan İ. Z., TUBITAK Project, İnsan ve Hayvan Sağlığı ve Peynir Verimi ile İlişkisi Olan Süt Proteinlerinden b-Kazein, b-Laktoglobulin ve k-kazein'in Bazı Genotiplerinin DNA'ya Dayalı Yöntemlerle Tanısı, 2005 - 2007

## Scholarships

Visiting Investigator University of California USA, University, 2010 - 2011

First Kemali-IBRO Mediterranean School of Neuroscience Italy, University, 2009 - 2009

Visiting Investigator Royal Institute of Technology Sweden, University, 2004 - 2004

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

1. **Tannic acid elicits differential gene regulation in prostate cancer apoptosis**  
KANDIR S., Karakurt S., Gökçek-Saraç Ç., Karakurt S.  
Acta pharmaceutica (Zagreb, Croatia), vol.74, no.3, pp.539-550, 2024 (SCI-Expanded)
2. **Different duration of exposure to a pulsed magnetic field can cause changes in mRNA expression of apoptotic genes in oleic acid-treated neuroblastoma cells**  
Gökçek-Saraç Ç., Çetin E., ATEŞ K., ÖZEN Ş., Karakurt S.  
International Journal of Radiation Biology, vol.100, no.10, pp.1471-1480, 2024 (SCI-Expanded)
3. **Development of Highly Efficient Resistance to Beet Curly Top Iran Virus (Becurtovirus) in Sugar Beet (B. vulgaris) via CRISPR/Cas9 System**  
Yıldırım K., Kavas M., Küçük İ. S., Seçgin Z., Saraç Ç.  
International Journal of Molecular Sciences, vol.24, no.7, 2023 (SCI-Expanded)
4. **Cytoprotective effects of low-frequency pulsed electromagnetic field against oxidative stress in glioblastoma cells.**  
Gökçek-Saraç Ç., Şimşek T., Karakurt S.  
General physiology and biophysics, vol.42, no.1, pp.97-106, 2023 (SCI-Expanded)
5. **The Role of Acetylcholine on the Effects of Different Doses of Sulfite in Learning and Memory.**  
DANIŞMAN B., Akçay G., Gökçek-Saraç Ç., Kantar D., Aslan M., DERİN N.  
Neurochemical research, vol.47, no.11, pp.3331-3343, 2022 (SCI-Expanded)
6. **Genome-based identification of beet curly top Iran virus infecting sugar beet in Turkey and investigation of its pathogenicity by agroinfection**  
YILDIRIM K., KAVAS M., Kaya R., SEÇGİN Z., Can C., Sevgen I., SARAÇ Ç., Tahan V.  
JOURNAL OF VIROLOGICAL METHODS, vol.300, 2022 (SCI-Expanded)
7. **Upregulation of p53 by tannic acid treatment suppresses the proliferation of human colorectal**

## **carcinoma**

KARAKURT S., KANDIR S., Gokcek-Sarac C.

ACTA PHARMACEUTICA, vol.71, no.4, pp.587-602, 2021 (SCI-Expanded)

8. **Possible effects of different doses of 2.1 GHz electromagnetic radiation on learning, and hippocampal levels of cholinergic biomarkers in Wistar rats**  
Gokcek-Sarac C., Akcay G., Karakurt S., ATEŞ K., ÖZEN Ş., DERİN N.  
ELECTROMAGNETIC BIOLOGY AND MEDICINE, vol.40, no.1, pp.179-190, 2021 (SCI-Expanded)
9. **Effects of 2.1 GHz Electromagnetic Radiation on Locomotor Activity, Recognition Memory, and Anxiety-Related Behavior in Rats**  
Gokcek-Sarac C.  
NEUROPHYSIOLOGY, vol.52, no.4, pp.261-266, 2020 (SCI-Expanded)
10. **Relationship between the hippocampal expression of selected cytochrome P450 isoforms and the animal performance in the hippocampus-dependent learning task**  
Gjota-Ergin S., SARAÇ Ç., ADALI O., Jakubowska-Dogru E.  
NEUROSCIENCE LETTERS, vol.673, pp.104-110, 2018 (SCI-Expanded)
11. **alpha-Actinin Anchors PSD-95 at Postsynaptic Sites**  
Matt L., Kim K., Hergarden A. C., Patriarchi T., Malik Z. A., Park D. K., Chowdhury D., Buonarati O. R., Henderson P. B., SARAÇ Ç., et al.  
NEURON, vol.97, no.5, pp.1094-1118, 2018 (SCI-Expanded)
12. **Effects of acute and chronic exposure to both 900 MHz and 2100 MHz electromagnetic radiation on glutamate receptor signaling pathway.**  
GOKCEK-SARAC C., ER H., MANAS C. K., GOK D., ÖZEN Ş., DERİN N.  
International journal of radiation biology, vol.93, no.9, pp.980-989, 2017 (SCI-Expanded)
13. **Effects of Different Duration Time of Exposure to 2100 MHz Electromagnetic Radiation on Behaviour and Hippocampal Levels of Protein Kinases on Rats**  
SARAÇ Ç., ER H.  
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.34, no.4, pp.322-331, 2017 (SCI-Expanded)
14. **Comparison of spatial learning in the partially baited radial-arm maze task between commonly used rat strains: Wistar, Spargue-Dawley, Long-Evans, and outcrossed Wistar/Sprague-Dawley**  
SARAÇ Ç., Wesierska M., Jakubowska-Dogru E.  
LEARNING & BEHAVIOR, vol.43, no.1, pp.83-94, 2015 (SCI-Expanded)
15. **Hippocampal levels of ChAT, PKA, phospho-PKA and phospho-CaMKII alpha but not CaMKII alpha positively correlate with spatial learning skills in rats**  
SARAÇ Ç., ADALI O., Jakubowska-Dogru E.  
NEUROSCIENCE LETTERS, vol.545, pp.112-116, 2013 (SCI-Expanded)
16. **Correlation between hippocampal levels of neural, epithelial and inducible NOS and spatial learning skills in rats**  
SARAÇ Ç., Karakurt S., ADALI O., Jakubowska-Dogru E.  
BEHAVIOURAL BRAIN RESEARCH, vol.235, no.2, pp.326-333, 2012 (SCI-Expanded)
17. **Genetic relationship between Kangal, Akbash and other dog populations**  
Koban E., SARAÇ Ç., Acan S. C., Savolainen P., Togan I.  
DISCRETE APPLIED MATHEMATICS, vol.157, no.10, pp.2335-2340, 2009 (SCI-Expanded)

## **Articles Published in Other Journals**

1. **Effects of Long-Term Pulsed Electromagnetic Field Exposure on Apoptosis in Neuroblastoma Cell Line**  
Gökçek-Saraç Ç., Çetin E., Karakurt S.  
Süleyman Demirel Üniversitesi Fen Edebiyat Fakültesi Fen Dergisi, vol.18, no.2, pp.88-98, 2023 (Peer-Reviewed Journal)

2. **Yüksek Doz Hidrojen Peroksit ile Muamele Edilen İnsan Nöroblastoma Hücre Hattında Darbeli Elektromanyetik Alan Maruziyetinin Glutasyon Miktarına Etkisi**  
ŞİMŞEK T., KARAKURT S., GÖKÇEK SARAÇ Ç.  
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.17, no.1, pp.146-154, 2022 (Peer-Reviewed Journal)

## Books & Book Chapters

1. **The molecular basis of individual variation in spatial memory in rats**  
SARAÇ Ç.  
Lambert Academic Publishing-Lap, Saarbrücken, 2015
2. **Investigation of the origin of the Kangal dogs in Turkey**  
SARAÇ Ç.  
Lambert Academic Publishing-Lap, Saarbrücken, 2010

## Refereed Congress / Symposium Publications in Proceedings

1. **A Deep Learning-based Reinforcement Algorithm for the Diagnosis of Glioma**  
Arıkan S., ÜNCÜ Y. A., SARAÇ Ç.  
6th International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2024), Poland, 26 - 28 September 2024
2. **Alternative approach to thyroid cancer treatment: investigation of anticarcinogenic effects of hypericum perforatum methanol extract**  
Altunkaya G., KARAKURT S., SARAÇ Ç.  
5th International Mediterranean Congress, Mersin, Turkey, 13 January 2024
3. **CRISPR/Cas9 mediated resistance to Becurtovirus in sugar beet**  
YILDIRIM K., KAVAS M., SEVGİN KÜÇÜK İ., SEÇGİN Z., GÖKÇEK SARAÇ Ç.  
4th PlantEd Conference, Porto, Portugal, 18 - 20 September 2023
4. **Possible effects of cell phone radiation on brain: From behaviour to molecules**  
GÖKÇEK SARAÇ Ç.  
Scholars 2nd Edition International Conference on Optics, Lasers and Photonics, London, Canada, 27 March 2023
5. **Uzun Süreli Darbeli Elektromanyetik Alan Maruziyetinin Nöronal Apoptoz Mekanizmaları Üzerine Olası Etkileri**  
ÇETİN E., KARAKURT S., GÖKÇEK SARAÇ Ç.  
10. Uluslararası Hipokrat Tıp ve Sağlık Bilimleri Kongresi, Turkey, 16 - 17 December 2022, pp.19-20
6. **Investigation of the Expressions of AGTR-1 and AGTR-2 that are Involved in Aldosterone Metabolism in Rat Tissues by Immunochemical Methods**  
GÖKÇEK SARAÇ Ç., KARAKURT S.  
4th Eurasia Biochemical Approaches & Technologies (EBAT) Congress, Antalya, Turkey, 3 - 06 November 2022
7. **Sülfit toksisitesi ile depresyon düzeyi arasındaki ilişkinin davranış deneyleri ile belirlenmesi**  
DERİN N., MUNZUROĞLU M., KENCEBAY MANAS C., GÖKÇEK SARAÇ Ç.  
20. Ulusal Sinirbilim Kongresi, İstanbul, Turkey, 19 - 23 October 2022, pp.156
8. **Aldosteron metabolizmasındaki bazı sitokrom p450 enzimlerinin mRNA seviyelerinin adrenokortikal hücre hattında incelenmesi**  
GÖKÇEK SARAÇ Ç., KARAKURT S.  
8. Uluslararası Erciyes Bilimsel Araştırmalar Kongresi, Kayseri, Turkey, 1 - 02 October 2022, pp.436-437
9. **Post-exposure Effects of PEMF on ROS levels in H2O2-treated Glioblastoma Cell Line**

Gökçek Saraç Ç., Şimşek T., Karakurt S.

8th World Congress on Electrical Engineering and Computer Systems and Science (EECSS'22) (9th International Conference on Biomedical Engineering and Systems (ICBES22)), Praha, Czech Republic, 28 - 30 July 2022

10. **Radiofrequency Electromagnetic Radiation Exposure Effects mRNA Levels of Cholinergic Molecules in Rats**  
GÖKÇEK SARAÇ Ç., AKÇAY G., KARAKURT S., ATEŞ K., ÖZEN Ş., DERİN N.  
International Asian Congress on Contemporary Sciences-VI, Van, Turkey, 27 - 29 May 2022, pp.318-321
11. **Impairment effect of 65 V/m dose of 2.1 GHz RF-EMR on recognition memory in Wistar rats**  
GÖKÇEK SARAÇ Ç.  
Tashkent 1st-International Congress on Modern Sciences, Taşkent, Uzbekistan, 10 - 11 May 2022, pp.497-502
12. **Investigation of Possible Effects of Short-Term PEMF Exposure on Glutathione Amount in Human Neuronal Cell Line**  
Gökçek Saraç Ç., Şimşek T., Karakurt S.  
10. International Drug Chemistry Conference, Antalya, Turkey, 10 - 13 March 2022, pp.114
13. **Farklı dozlardaki sülfitin hipokampal sinaptik plastisite üzerine olan etkisinin incelenmesi**  
DANIŞMAN B., AKÇAY G., GÖKÇEK SARAÇ Ç., KANTAR GÜL D., AYDIN ASLAN M., DERİN N.  
19. Ulusal Sinirbilim Kongresi, Çevrimiçi, Turkey, 21 - 23 November 2021, pp.57
14. **Pulsed Electromagnetic Field Improves the Antioxidant Response in Human Glioblastoma Cells**  
Karakurt S., Şimşek T., Özen Ş., Gökçek Saraç Ç.  
9. International Drug Chemistry Conference, Antalya, Turkey, 8 - 11 April 2021
15. **Investigation of the effects of L-Carnitine on age-related learning changes and glutamate pathway**  
AKÇAY G., DANIŞMAN B., GÖKÇEK SARAÇ Ç., AYDIN ASLAN M., DERİN N.  
FENS Reaginol Meeting 2019, Belgrade, Serbia, 10 - 13 July 2019, pp.617
16. **Siçanlarda prenatal ve/veya postnatal dönemde sülfid maruziyetine bağlı nörotoksisitede glutamatın rolü**  
AKÇAY G., KENCEBAY MANAS C., DANIŞMAN B., DENİZALTI T., GÖKÇEK SARAÇ Ç., AYDIN ASLAN M., DERİN N.  
17. Ulusal Sinirbilim Kongresi, Trabzon, Turkey, 4 - 07 April 2019, vol.13, pp.35
17. **Increased Hippocampal Level of Kinases after Long-term Exposure to GSM-2100 Cell Phone Radiation**  
Gokcek-Sarac C., ÖZEN Ş., DERİN N.  
Photonics and Electromagnetics Research Symposium - Spring (PIERS-Spring), Rome, Italy, 17 - 20 June 2019, pp.1439-1444
18. **Investigation of the Effects of L-Carnitine on Age Related Learning Changes and the Regulation of Glutamate Levels by Behavioral and Molecular Methods**  
Saraç Ç., Akçay G., Danişman B., Özkan A., Derin N.  
44. Ulusal Fizyoloji Kongresi, Antalya, Turkey, 1 - 04 November 2018, vol.225, pp.23
19. **Effects of sulphite exposure on behaviour and its molecular mechanisms**  
DANIŞMAN B., KENCEBAY MANAS C., AKÇAY G., SARAÇ Ç., Denizaltı T., AYDIN ASLAN M., DERİN N.  
3rd International Multidisciplinary Studies Congress, Kiev, Ukraine, 5 - 06 October 2018, pp.1-2
20. **Salicylic acid mediated gene regulation and external excretion for mineral toxicity tolerance in poplar**  
Yıldırım K., SARAÇ Ç.  
7th International congress on molecular biology and biotechnology, Konya, Turkey, 25 - 27 April 2018, pp.1
21. **Investigation of Possible Behavioural and Molecular Effects of Mobile Phone Exposure on Rats**  
SARAÇ Ç., ÖZEN Ş., DERİN N.  
ICAACEN 2017: 19th International Conference on Applications of Cognitive Engineering and Neuroscience, Prag, Czech Republic, 9 - 10 July 2017, vol.11, pp.1731-1734
22. **Cytotoxic effects of naturally occurring flavonoids on human colon cancer cells**  
KARAKURT S., GÖKÇEK SARAÇ Ç., KARAKURT S.  
1st International Congress on Medicinal and Aromatic Plants: "Natural and Healthy Life", Konya, Turkey, 9 - 12 May 2017, pp.1024

23. **Effects of 2G Mobile Phone Exposure on Both Behavioural Performance and Levels of Enzyme from NMDA-dependent Pathway**  
Gokcek-Sarac C., ÖZEN Ş., DERİN N.  
Progress in Electromagnetics Research Symposium - Spring (PIERS), St Petersburg, Russia, 22 - 25 May 2017, pp.1739-1742
24. **Both acute and chronic 2100MHz GSM exposure have different effects on behavioural performance of Wistar rats and the levels of CREB and pCREB in their brain**  
GÖKÇEK SARAÇ Ç.  
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN-2016), Antalya, Turkey, 19 - 24 October 2016, pp.601
25. **Investigation of the hippocampal level of CYP2E1 isoform at different stages of learning in Sprague-Dawley rats**  
GÖKÇEK SARAÇ Ç., GJOTA ERGİN S., ADALI O., JAKUBOWSKA DOĞRU E.  
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN-2016), Antalya, Turkey, 19 - 24 October 2016, pp.629
26. **Hippocampal expression of selected cytochrome P450 isoforms during spatial learning in rats**  
GJOTA ERGİN S., GÖKÇEK SARAÇ Ç., JAKUBOWSKA DOĞRU E.  
10th FENS Forum of European Neuroscience, Copenhagen, Denmark, 2 - 06 July 2016, pp.543
27. **900-2200 MHz RF-EMR maruziyetin protein kinaz A enziminin hipokampustaki seviyesi/aktivitesi üzerine etkilerinin araştırılması**  
DERİN N., SARAÇ Ç., ER H., KENCEBAY MANAS C., ÖZEN Ş.  
14. ULUSAL SİNİRBİLİM KONGRESİ, Ankara, Turkey, 26 - 29 May 2016, pp.279-280
28. **Investigation of the individual variation in spatial memory task among young-adult rats representing four different strains**  
Jakubowska-Doğru E., SARAÇ Ç., Wesierska M.  
9th FENS Forum of European Neuroscience, Milano, Italy, 5 - 09 July 2014, pp.237
29. **. Correlation between individual variation in spatial learning skills among young-adult rats and their hippocampal levels of selected enzymes known as "memory molecules"**  
Jakubowska-Doğru E., SARAÇ Ç., Adalı O.  
45th European Brain and Behavior Society Meeting (EBBS), Munich, Germany, 6 - 09 September 2013, pp.23
30. **Mekansal öğrenme becerisindeki bireysel varyasyon ile ChAT enzim seviyesinin ilişkisi**  
KARAKURT S., SARAÇ Ç., ADALI O., JAKUBOWSKA-DOĞRU E.  
XXV. National Biochemical Meeting, İzmir, Turkey, 3 - 06 September 2013, pp.292
31. **Davranışsal Sinirbilimi: Davranıştan Moleküle**  
SARAÇ Ç., JAKUBOWSKA-DOĞRU E.  
1. ODTÜ Sinirbilim Günleri, Ankara, Turkey, 16 - 17 February 2013, pp.1
32. **Study on molecular correlates of individual variation in spatial memory in young adult rats**  
Jakubowska-Doğru E., SARAÇ Ç., Adalı O.  
Society for Neuroscience (SfN) Neuroscience 2012, New Orleans, United States Of America, 13 - 17 October 2012, pp.66
33. **Investigation of the possible role of CaMKII?, PKA and their phosphorylated forms in spatial learning capacity of Long-Evans rats**  
SARAÇ Ç., Adalı O., Jakubowska-Doğru E.  
8th FENS Forum of European Neuroscience, Barcelona, Spain, 14 - 18 July 2012, pp.677
34. **Study of the relation between the animals' learning capacity and the hippocampal levels of CaMKII? and pCaMKII? in random population of Long Evans rats**  
SARAÇ Ç., Keçecioglu E., Adalı O., JAKUBOWSKA-DOĞRU E.  
10. Ulusal Sinirbilimleri Kongresi, İstanbul, Turkey, 9 - 12 April 2011, pp.148
35. **In vitro effects of plant phenolic compounds on liver glutathione S-transferase activity**  
KARAKURT S., Sever M., SARAÇ Ç., ADALI O.  
XXII. National Biochemical meeting, Eskişehir, Turkey, 27 - 30 October 2010, pp.83

36. **Investigation of the potential role of nitric oxide synthase (NOS) isoforms in spatial learning in rat hippocampus**  
SARAÇ Ç., KARAKURT S., ADALI O., JAKUBOWSKA-DOĞRU E.  
7th FENS Forum of European Neuroscience, Amsterdam, Netherlands, 3 - 07 July 2010, pp.16
37. **Study of the relation between the spatial learning capacity and the hippocampal expression of different NOS isoforms in the random populations of young-adult laboratory rats**  
SARAÇ Ç., KARAKURT S., ADALI O., JAKUBOWSKA-DOĞRU E.  
9. Ulusal Sinirbilimleri Kongresi, İstanbul, Turkey, 13 - 17 April 2010, pp.165
38. **Correlation between spatial learning and the expression of different Nitric Oxide Synthase (NOS) isoforms in rat hippocampus**  
SARAÇ Ç., KARAKURT S., Koçak Ö., ADALI O., JAKUBOWSKA-DOĞRU E.  
Society for Neuroscience (SfN) Neuroscience 2009, Chicago, United States Of America, 17 - 21 October 2009, pp.139
39. **An Anatolian Trilogly With Some Implications on Conservation Issues: Arrivals of Nomadic Turks Together with their Sheep and Shepherd Dogs**  
TOGAN İ., Berkman C., KOBAN E., SARAÇ Ç., Dinç H.  
ESF workshop on "Population genetics modelling and habitat fragmentation: separating recent and ancient events for efficient conservation, Oieras, Portugal, 19 - 21 September 2007, pp.1
40. **Identification of genes or gene families involved in resistance to viral disease in native Turkish sheep breeds**  
SARAÇ Ç., Bekpen C., TOGAN İ.  
International Symposium on Health Informatics and Bioinformatics, Antalya, Turkey, 30 April - 02 May 2007, pp.1
41. **Origin of Kangal dogs in Turkey: A Comparative Study**  
SARAÇ Ç., KOBAN E., Açıkan S. C., TOGAN İ.  
Third Joint Meeting of Universities and Research Institutions for Animal Science of the Balkan Countries, Selanik, Greece, 10 - 12 February 2007, pp.10-12
42. **Mitochondrial DNA (mtDNA) sequence analysis of Kangal dogs in Turkey**  
SARAÇ Ç., KOBAN E., Berkman C., TOGAN İ.  
International Symposium on Health Informatics and Bioinformatics, Antalya, Turkey, 10 - 12 November 2005, pp.243

## Academic and Administrative Experience

2023 - Continues	<b>Manager of Research and Application Center</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2023 - Continues	<b>Head of Department</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2023 - Continues	<b>Erasmus Program Department Coordinator</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2023 - Continues	<b>Head of Department</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2022 - Continues	<b>Member of Department Quality Commission</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2021 - Continues	<b>Faculty Board Member</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering



2017 - Continues	<b>Board Member</b>	Akdeniz University, Engelli Öğrenci Birimi
2016 - 2023	<b>Deputy Head of Department</b>	Akdeniz University, Faculty Of Engineering, Department of Biomedical Engineering
2017 - 2020	<b>Board Member</b>	Akdeniz University, Akişmer Ttm

## Courses

Nöromühendislik, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Biyomedikal Mühendisler için Anatomi ve Fizyoloji, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Introduction to Medical Imaging, Undergraduate, 2022 - 2023, 2021 - 2022  
Bilimsel Araştırma Teknikleri ve Etik I , Postgraduate, 2019 - 2020  
Biyomedikal Teknolojileri Kullanımı, Associate Degree, 2016 - 2017  
Biyolojik Yaşlanma Teorileri Dersi -I, Undergraduate, 2016 - 2017

## Advising Theses

Saraç Ç., Üncü Y. A., Derin Öğrenme Uygulaması Destekli Pekiştirmeli Öğrenme Algoritması İle Beyin Kanseri Tanı Ve Sınıflandırılmasında Etkili Bir Arayüz Oluşturulması , Postgraduate, S.Arıkan(Student), Continues  
Saraç Ç., Gliblastoma hücrelerinde darbeli elektromanyetik alan maruziyeti ve resveratrolün apoptotik yolda sinerjik etkisinin incelenmesi, Postgraduate, A.Doğan(Student), Continues  
Karakurt S., Saraç Ç., Hypericum perforatum ekstraktının insan tiroid kanserine karşı antikanserojenik etkilerinin araştırılması, Postgraduate, G.Altunkaya(Student), 2024  
Adalı O., Saraç Ç., Investigation of transcriptomic, proteomic, and enzymatic activity profile of liver antioxidant enzymes (CAT, SOD, GPx, Trx in multiple sclerosis mice model, Doctorate, S.GJOTA(Student), 2023  
Saraç Ç., Darbeli elektromanyetik alana kısa ve uzun süreli maruziyetin oleik asit ile muamele edilen beyin hücrelerinde nöronal apoptoz mekanizmaları üzerine moleküler etkileri, Postgraduate, E.ÇETİN(Student), 2023  
Saraç Ç., Darbeli elektromanyetik alan uygulamasının (PEMA) beyin hücrelerinde hidrojen peroksit (H<sub>2</sub>O<sub>2</sub>) ile indüklenmiş oksidatif stres üzerindeki etkisi, Postgraduate, T.ŞİMŞEK(Student), 2021  
Saraç Ç., Adalı O., Hippocampal expression of selected cytochrome P450 isoforms during spatial learning in rats., Postgraduate, S.Gjota(Student), 2016

## Activities in Scientific Journals

Akdeniz Mühendislik Dergisi, Article Editor, 2023 - Continues

## Memberships / Tasks in Scientific Organizations

Türkiye Beyin Araştırmaları ve Sinirbilimleri Derneği, Member, 2008 - Continues  
Federation of European Neuroscience, Member, 2008 - Continues  
American Society for Neuroscience, Member, 2008 - Continues  
Computational Biology and Medicine Group, Member, 2005 - Continues

## Scientific Refereeing

Biomedical and Environmental Sciences, SCI Journal, January 2020

Heliyon, SCI Journal, January 2020

Electromagnetic Biology and Medicine, SCI Journal, January 2019

Bioelectromagnetics, SCI Journal, January 2017

## Metrics

Publication: 63

Citation (WoS): 113

Citation (Scopus): 130

H-Index (WoS): 6

H-Index (Scopus): 6

## Research Areas

Biomedical Engineering, Clinical Engineering, Electromagnetic in Biology and Medicine, Life Sciences, Biochemistry, Molecular Biochemistry, Bioinformatics, Molecular Biology and Genetics, Animal Molecular Genetics, Neurobiology, Health Sciences, Fundamental Medical Sciences, Neurophysiology, Natural Sciences

## Non Academic Experience

University of California, Davis (UCDavis) Department of Pharmacology, California, United States