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Education Information

Expertise In Medicine, Kocaeli Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 1995 - 1999

Post Graduate, İstanbul University-Cerrahpaşa, Cerrahpaşa Faculty Of Medicine, Turkey 1985 - 1992

Foreign Languages

English, C1 Advanced

Research Areas

Neurophysiology

Academic Titles / Tasks

Associate Professor, Kocaeli Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2013 - Continues

Advising Theses

Karson A., Hipokretin Nöronlarının Absans Epilepsi İle İlişkisinin Araştırılması, Doctorate, F.Dede(Student), Continues

Karson A., Genetik absans epilepsili sıçanların kortikal beyin bölgelerinde kalsiyum bağlayan proteinlerin incelenmesi, Doctorate, S.ARKAN(Student), 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Etanercept improves aging-induced cognitive deficits by reducing inflammation and vascular dysfunction in rats.**
Gocmez S. S. , Yazir Y., Gacar G., Demirtaş Ş., Arkan S., Karson A., Utkan T.
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- **Aging impairs perceptual decision-making in mice: integrating computational and neurobiological approaches**
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BRAIN STRUCTURE & FUNCTION, vol.225, pp.1889-1902, 2020 (Journal Indexed in SCI)
- **Interval timing deficits and their neurobiological correlates in aging mice**

Gur E, Duyan Y. A. , Arkan S, KARSON A, Balci F.

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● **The lower expression of parvalbumin in the primary somatosensory cortex of WAG/Rij rats may facilitate the occurrence of absence seizures**

Arkan S, Kasap M, Akman O, Akpınar G, Ateş N, Karson A.

NEUROSCIENCE LETTERS, vol.709, 2019 (Journal Indexed in SCI)

● **Etanercept treatment reverses the impaired spatial and emotional memory functions in different age groups of genetic absence epileptic WAG/Rij rats**

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European Neuropsychopharmacology, vol.27, pp.724-725, 2017 (Journal Indexed in SCI Expanded)

● **INVESTIGATION OF THE EXPRESSION OF CALCIUM BINDING PROTEINS IN SOMATOSENSORIAL CORTEX OF WAG/RIJ RATS**

ARKAN S., KASAP M., AKMAN O., ATEŞ N., KARSON A.

EPILEPSIA, vol.57, pp.150, 2016 (Journal Indexed in SCI)

● **Proteome profile of extratemporal structures in amygdala kindling mesial temporal lobe epilepsy rat model: A preliminary study**

Yılmaz A. D. , Çiftçi G. G. , Demiralp D. Ö. , İğci N., Akman Ö., ATEŞ N., KARSON A.

Current Proteomics, vol.13, pp.271-284, 2016 (Journal Indexed in SCI)

● **TNF-alpha inhibition prevents cognitive decline and maintains hippocampal BDNF levels in the unpredictable chronic mild stress rat model of depression.**

Şahin T, Karson A, Balci F, Yazır Y, Bayramgürler D, Utkan T.

Behavioural brain research, vol.292, pp.233-40, 2015 (Journal Indexed in SCI)

● **Etanercept Improves Cognitive Performance and Increases eNOS and BDNF Expression During Experimental Vascular Dementia in Streptozotocin-induced Diabetes**

Utkan T, Yazır Y, Karson A, Bayramgürler D.

CURRENT NEUROVASCULAR RESEARCH, vol.12, pp.135-146, 2015 (Journal Indexed in SCI)

● **The link between unpredictable chronic mild stress model for depression and vascular inflammation?**

Demirtas T, Utkan T, Karson A, Yazır Y, Bayramgürler D, Gacar N.

Inflammation, vol.37, pp.1432-8, 2014 (Journal Indexed in SCI)

● **Comparative Proteomic Approach in Rat Model of Absence Epilepsy**

Gürol G., Demiralp D. Ö. , Yılmaz A. K. , Akman Ö., ATEŞ N., KARSON A.

Journal of Molecular Neuroscience, vol.55, pp.632-643, 2014 (Journal Indexed in SCI)

● **Effects of long-term etanercept treatment on anxiety- and depression-like neurobehaviors in rats**

Bayramgürler D., Karson A., Özer C., Utkan T.

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● **The Effects of Vagal Nerve Stimulation in Focal Cerebral Ischemia and Reperfusion Model**

Ekici F., KARSON A., Dillioglugil M. Ö. , Gurol G., Kir H., Ates N.

TURKISH NEUROSURGERY, vol.23, pp.451-457, 2013 (Journal Indexed in SCI)

● **The effect of etanercept on aortic nitric oxide-dependent vasorelaxation in an unpredictable chronic, mild stress model of depression in rats**

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EUROPEAN JOURNAL OF PHARMACOLOGY, vol.710, pp.67-72, 2013 (Journal Indexed in SCI)

● **Chronic administration of infliximab (TNF- α inhibitor) decreases depression and anxiety-like behaviour in rat model of chronic mild stress.**

Karson A, Demirtas T, Bayramgürler D, Balci F, Utkan T.

Basic & clinical pharmacology & toxicology, vol.112, pp.335-40, 2013 (Journal Indexed in SCI)

● **Age-dependent decline in learning and memory performances of WAG/Rij rat model of absence epilepsy.**

Karson A., Utkan T., Balci F., Arıcıoğlu F., Ateş N.

Behavioral and brain functions : BBF, vol.8, pp.51, 2012 (Journal Indexed in SCI Expanded)

- **The effect of memantine in harmaline-induced tremor and neurodegeneration**
İşeri P., Karson A., Gullu K. M. , Akman O., Köktürk S., Yardımoğlu M., Ertürk S., Ateş N.
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- **Perirhinal cortical kindling in rats with genetic absence epilepsy**
Akman O., KARSON A., Aker R. G. , ATEŞ N., Onat F. Y.
Neuroscience Letters, vol.479, pp.74-78, 2010 (Journal Indexed in SCI)
- **Hippocampal kindling in rats with absence epilepsy resembles amygdaloid kindling**
Akman O., KARSON A., Aker R. G. , ATEŞ N., Onat F. Y.
Epilepsy Research, vol.81, pp.211-219, 2008 (Journal Indexed in SCI)
- **The effects of the immature rat model of febrile seizures on the occurrence of later generalized tonic-clonic and absence epilepsy**
Ateş N., Akman Ö., Karson A.
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- **Effects of adenosine administration on spike-wave discharge frequency in genetically epileptic rats.**
İlbay G., Sahin D., Karson A., Ates N.
Clinical and experimental pharmacology & physiology, vol.28, pp.643-6, 2001 (Journal Indexed in SCI Expanded)
- **Cardiovascular effects of intracerebroventricular bicuculline in rats with absence seizures.**
Karson A., Aker R., ATEŞ N., ONAT F.
Epilepsy research, vol.34, pp.231-9, 1999 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **Locomotor Activity, Learning and Memory in WAG/Rij Rats with Absence Epilepsy**
KARSON A., Onat F., Balci F., ATEŞ N.
EPILEPSI, vol.14, pp.167-175, 2008 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- **Electroencephalographic Differences In Kindling-Induced Afterdischarges Among Genetic Absence Rat Models And Wistar Rats**
Akman O., Karson A., Ates N., Onat F.
33rd International Epilepsy Congress, Bangkok, Thailand, 22 - 26 June 2019, vol.60, pp.136
- **Analysis of glutamate-induced processing of proline-rich transmembrane protein 2 (PRRT2)**
UTKAN T., DEMİRTAŞ ŞAHİN T., KARSON A., HALBUTOĞULLARI Z. S. , YAZIR Y.
30th Seoul World Congress of the International-College-of-Neuropsychopharmacology (CINP), Seoul, South Korea, 3 - 07 July 2016, vol.19, pp.269
- **Effects of etanercept on vascular dementia in aged rats**
Aksöz E., Utkan T., Yazır Y., Demirtaş Şahin T., Karson A.
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- **P 1 g 007 Effect of chronic etanercept a TNF inhibitor treatment on depressive like behaviour in aged rats**
DEMİRTAŞ ŞAHİN T., ARKAN S., KARSON A., UTKAN T.
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- **Etanercept Treatment Prevents Emotional Memory Deficits of Cafeteria Diet-Fed Rats**
Demirtaş Şahin T., Utkan T., Aksöz E., Karson A.
70th Annual Scientific Meeting of the Society-of-Biological-Psychiatry on Stress, Emotion, Neurodevelopment and Psychopathology, Toronto, Canada, 14 - 16 May 2015, vol.77

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Supported Projects

KARSON A., Project Supported by Higher Education Institutions, HİPOKRETİN NÖRONLARININ ABSANS EPİLEPSİ İLE İLİŞKİSİNİN ARAŞTIRILMASI, 2019 - Continues

KARSON A., Project Supported by Higher Education Institutions, SIÇANLARDA HARMALİNLE İNDÜKLENEN ESANSİYEL TREMOR MODELİNDE HCN KANAL BLOKAJININ TREMOR VE NÖRONAL AKTİVİTE PATERNİ ÜZERİNE ETKİSİ, 2018 - Continues

Utkan T., Demirtaş Şahin T., Karson A., Yazır Y., Project Supported by Higher Education Institutions, Genetik absans epileptik WAG Rij sıçanlarda behevryoral ve kognitif fonksiyonlar üzerinde TNF alfa inhibitörlerinin etkilerinin araştırılması, 2015 - 2018

Karson A., Balcı F., TÜBİTAK - AB COST Project, Bilişsel Yaşlanma Fare Modeli Olarak Karar Verme ve Aralık Zamanlama Davranışsal Nörobiyolojik ve Hesaplamalı Yaklaşımlar, 2015 - 2018

KARSON A., Project Supported by Higher Education Institutions, Absans Epilepsili Sıçanların Kortikal GABAerjik Nöronlarında Kalsiyum Bağlayan Proteinleri ve Nöropeptidlerin İncelenmesi, 2015 - 2017

KARSON A., Project Supported by Higher Education Institutions, Yetişkin sıçanlarda Kronik Alkol UygulamasınınP-Gp İfadesi Üzerine Etkilerinin ve Dağılım Özelliklerinin İncelenmesi, 2014 - 2017

Utkan T., Halbutoğulları Z. S. , Demirtaş Şahin T., Karson A., Yazır Y., TUBİTAK Project, Genetik absans epilepsili WAG Rij sıçanlarda kardiyovasküler değişiklikler üzerinde kök hücre tedavisi ve klasik tedavinin etkilerinin araştırılması, 2014 - 2016

Karson A., Balcı F., TUBİTAK Project, Zamansal ve Sayısal Risk Analizi, 2012 - 2015

Karson A., Özel Demiralp F. D. , Ateş N., TUBİTAK Project, Genetik Absans Epilepsili WAG/Rij Sıçanlarda Epileptogenez Sürecinin, Absans ve Limbik Epilepsi Örneklerinde, Bölgesel ve Moleküler Düzeyde Proteomiks Yöntemi ile Araştırması, 2009 - 2011

KARSON A., TUBİTAK Project, Effects of Memantine on harmaline induced tremor and cognitive deficiencies, 2009 - 2010

Karson A., Onat F., Gülhan R., Ateş N., TUBİTAK Project, WAG Rij Irkı Sıçanlarda Kindling Nöbet Duyarlılığında Korteksin Rolü, 2006 - 2007

Citations

Total Citations (WOS):326

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