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Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Histoloji Ve Embriyoloji (Dr), Turkey 2014 - 2021

Postgraduate, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Histoloji Ve Embriyoloji (YI) (Tezli), Turkey 2012 - 2014

Undergraduate, Istanbul University, Cerrahpaşa Tıp Fakültesi, Tıbbi Biyolojik Bilimler Bölümü, Turkey 2001 - 2007

Dissertations

Doctorate, Prenatal dönemde 900 mhz elektromanyetik alana maruz kalan erkek yeni doğan sıçan hipotalamusu üzerine melatonin ve omega 3'ün koruyucu rolünün araştırılması: Stereolojik ve immünohistokimyasal çalışma, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Histoloji Ve Embriyoloji (Dr), 2021

Postgraduate, Elektromanyetik alana maruz kalan sıçan beyni üzerine omega 3 ve melatoninin etkilerinin araştırılması, Ondokuz Mayıs University, Sağlık Bilimleri Enstitüsü, Histoloji Ve Embriyoloji (YI) (Tezli), 2014

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2013 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Pigment epithelium-derived factor enhances peripheral nerve regeneration through modulating oxidative stress and stem cells An experimental study**
Önger M. E., Altun G., Yıldırım A.
ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY, vol.306, no.10, pp.2621-2635, 2023 (SCI-Expanded)
- II. **Momordica charantia enhances tendon healing in rats: An experimental study**
Erdogan F., KAPLAN A. A., Coşkun H. S., Altun G., Altunkaynak B. Z., Kelsaka E., Kaplan S., PİŞKİN A.
CELLS TISSUES ORGANS, 2023 (SCI-Expanded)
- III. **The potential protective effects of melatonin and omega-3 on the male rat optic nerve exposed to 900?MHZ electromagnetic radiation during the prenatal period**
Tufekci K. K., KAPLAN A. A., Kaya A., Alrafiah A., Altun G., AKTAŞ A., Kaplan S.
INTERNATIONAL JOURNAL OF NEUROSCIENCE, vol.133, pp.1424-1436, 2023 (SCI-Expanded)
- IV. **The effect of dietary sesame oil and ginger oil as antioxidants in the adult rat dorsal root ganglia after peripheral nerve crush injury**

Delibas B., KAPLAN A. A., Marangoz A. H., Eltahir M. I., Altun G., Kaplan S.

INTERNATIONAL JOURNAL OF NEUROSCIENCE, 2022 (SCI-Expanded)

- V. **The effects of different doses of diclofenac sodium on newborn rat hippocampus exposed during the third trimester**
Elibol E., Kaplan S., Altun G., Aksoy A., ALTUNKAYNAK B. Z.
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.44, no.2, pp.404-417, 2020 (SCI-Expanded)
- VI. **The investigation of the effects of topiramate on the hypothalamic levels of fat mass/obesity-associated protein and neuropeptide Y in obese female rats**
Alkan I., Altunkaynak B. Z., Altun G., Erener E.
NUTRITIONAL NEUROSCIENCE, vol.22, no.4, pp.243-252, 2019 (SCI-Expanded)
- VII. **Neuroprotective Effects of Melatonin and Omega-3 on the Central Nervous System Exposed to Electromagnetic Fields in the Pre- and Postnatal Periods**
Yurt K. K., Kivrak E. G., Altun G., AKTAŞ A., KAPLAN A. A., Kaplan S.
OMEGA FATTY ACIDS IN BRAIN AND NEUROLOGICAL HEALTH, 2ND EDITION, pp.161-191, 2019 (SCI-Expanded)
- VIII. **A concise review of optical, physical and isotropic fractionator techniques in neuroscience studies, including recent developments**
Deniz O. G., Altun G., KAPLAN A. A., Yurt K. K., von Bartheld C. S., Kaplan S.
JOURNAL OF NEUROSCIENCE METHODS, vol.310, pp.45-53, 2018 (SCI-Expanded)
- IX. **The genomic effects of cell phone exposure on the reproductive system**
Yahyazadeh A., Deniz O. G., KAPLAN A. A., Altun G., Yurt K. K., Davis D.
ENVIRONMENTAL RESEARCH, vol.167, pp.684-693, 2018 (SCI-Expanded)
- X. **A brief update on physical and optical disector applications and sectioning-staining methods in neuroscience**
Yurt K. K., Kivrak E. G., Altun G., Mohamed H., Ali F., Gasmalla H. E., Kaplan S.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.93, pp.16-29, 2018 (SCI-Expanded)
- XI. **Effects of mobile phone exposure on metabolomics in the male and female reproductive systems**
Altun G., Deniz O. G., Yurt K. K., Davis D., Kaplan S.
ENVIRONMENTAL RESEARCH, vol.167, pp.700-707, 2018 (SCI-Expanded)
- XII. **Comparison of the Regenerative Effects of Platelet-Rich Fibrin and Plasma Rich in Growth Factors on Injured Peripheral Nerve: An Experimental Study**
Torul D., Bereket M. C., Önger M. E., Altun G.
JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.76, no.8, 2018 (SCI-Expanded)
- XIII. **Genotoxic and carcinogenic effects of non-ionizing electromagnetic fields**
Kocaman A., Altun G., KAPLAN A. A., Deniz O. G., Yurt K. K., Kaplan S.
ENVIRONMENTAL RESEARCH, vol.163, pp.71-79, 2018 (SCI-Expanded)
- XIV. **The use of non-steroidal anti-inflammatory drugs diseases**
Terzi M., Altun G., Şen S., Kocaman A., KAPLAN A. A., Yurt K. K., Kaplan S.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.87, pp.12-24, 2018 (SCI-Expanded)
- XV. **Peripheral nerve and diclofenac sodium: Molecular and clinical approaches**
KAPLAN A. A., Yurt K. K., Deniz O. G., Altun G.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.87, pp.2-11, 2018 (SCI-Expanded)
- XVI. **Possible effects of some agents on the injured nerve in obese rats: A stereological and electron microscopic study**
Önger M. E., Kaplan S., Geuna S., Türkmen A. P., Muratori L., Altun G., Altunkaynak B. Z.
JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY, vol.45, no.8, pp.1258-1267, 2017 (SCI-Expanded)
- XVII. **Possible promoting effects of melatonin, leptin and alcar on regeneration of the sciatic nerve**
Önger M. E., Kaplan S., Deniz O. G., Altun G., Altunkaynak B. Z., Balci K., Raimondo S., Geuna S.
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- XVIII. **Could Calcified Triglyceride Bone Cement Be an Alternative Graft Material in Maxillary Sinus Augmentation?**
Yilmaz S., Ozden B., Baş Akkor B., Altun G., Altunkaynak B. Z.

JOURNAL OF CRANIOFACIAL SURGERY, vol.28, no.1, pp.97-103, 2017 (SCI-Expanded)

- XIX. Effects of platelet-rich plasma on cartilage regeneration after costal cartilage resection: a stereological and histopathological study**
Taslak Şengül A., Buyukkarabacak Y. B., Altunkaynak B. Z., YETİM T. D., Altun G., Sengul B., Başoğlu A.
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- XX. Neuroprotective effects of melatonin and omega-3 on hippocampal cells prenatally exposed to 900 MHz electromagnetic fields**
Koc G. E., Kaplan S., Altun G., Gumus H., Deniz O. G., Aydin I., Önger M. E., Altunkaynak Z.
INTERNATIONAL JOURNAL OF RADIATION BIOLOGY, vol.92, no.10, pp.590-595, 2016 (SCI-Expanded)
- XXI. Different methods for evaluating the effects of microwave radiation exposure on the nervous system**
Altunkaynak B. Z., Altun G., Yahyazadeh A., KAPLAN A. A., Deniz O. G., Türkmen A. P., Önger M. E., Kaplan S.
JOURNAL OF CHEMICAL NEUROANATOMY, vol.75, pp.62-69, 2016 (SCI-Expanded)
- XXII. Controversies related to electromagnetic field exposure on peripheral nerves**
Say F., Altunkaynak B. Z., Coskun S., Deniz O. G., Yildiz C., Altun G., KAPLAN A. A., Kaya S. E., PİŞKİN A.
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- XXIII. Controversies on electromagnetic field exposure and the nervous systems of children**
Warille A. A., Önger M. E., Türkmen A. P., Deniz O. G., Altun G., Yurt K. K., Altunkaynak B. Z., Kaplan S.
HISTOLOGY AND HISTOPATHOLOGY, vol.31, no.5, pp.461-468, 2016 (SCI-Expanded)
- XXIV. Role of vascular endothelial growth factor and placental growth factor expression on placenta structure in pre-eclamptic pregnancy**
Kurtoglu E., Altunkaynak B. Z., Aydin I., Ozdemir A. Z., Altun G., Kokcu A., Kaplan S.
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Articles Published in Other Journals

- I. Detrimental Effects of Sterilization Types on Single-Use Coronary Angioplasty Catheters for Reuse: An Electron Microscopic Study**
Kuruoglu T., Onger M. E., Altun G., atilla a., Esen S.
Infectious diseases and clinical microbiology (Online), vol.6, no.1, pp.4-10, 2024 (ESCI)
- II. Actions of N-acetylcysteine, daptomycin, vancomycin, and linezolid on methicillin-resistant Staphylococcus aureus biofilms in the ventriculoperitoneal shunt infections: an experimental study**
KURUOĞLU T., Altun G., Kuruoglu E., Turan D. B., Önger M. E.
Chinese Neurosurgical Journal, vol.8, no.1, 2022 (Scopus)
- III. Does costal cartilage resection reduce lung volume? (An experimental stereological study)**
Sengul A. T., Buyukkarabacak Y. B., Altunkaynak B. Z., Altun G., Gurz S., Sengul B., Pirizrenli M. G., Başoğlu A.
Journal of Experimental and Clinical Medicine (Turkey), vol.38, no.2, pp.61-65, 2021 (Scopus)
- IV. Protective effects of puerarin on the periodontium in an experimental rat model of periodontitis with and without diabetes mellitus: A stereological and immunohistochemical study**
COŞKUN TÜRER Ç., TÜRER A., ALTUN G.
Annals of Medical Research, vol.25, no.2, pp.169-175, 2018 (Peer-Reviewed Journal)
- V. Melatonin and sciatic nerve injury repair: a current perspective**
ALTUNKAYNAK B. Z., Delibas B., Altun G., Deniz O. G.
JOURNAL OF NEURORESTORATOLOGY, vol.6, pp.49-60, 2018 (ESCI)
- VI. Skeptical approaches concerning the effect of exposure to electromagnetic fields on brain hormones and enzyme activities**
WARİLLE A. A., ALTUN G., ELAMİN A. A., KAPLAN A. A., MOHAMED H., YURT K. K., ELHAJ A. E. E.
Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.177-184, 2017 (Peer-Reviewed Journal)
- VII. Does omega-3 have a protective effect on the rat adrenal gland exposed to 900 MHz electromagnetic fields?**
KOCAMAN A., GÜL M., YURT K. K., ALTUN G., ZAYMAN E., KIVRAK E. G.

- Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.185-190, 2017 (Peer-Reviewed Journal)
- VIII. **Effects of electromagnetic fields exposure on the antioxidant defense system**
KIVRAK E. G., YURT K. K., KAPLAN A. A., ALKAN I., ALTUN G.
Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.167-176, 2017 (Peer-Reviewed Journal)
- IX. **Protective effects of melatonin and omega-3 on the hippocampus and the cerebellum of adult Wistar albino rats exposed to electromagnetic fields**
ALTUN G., KAPLAN S., DENİZ Ö. G., KOCACAN S. E., CANAN S., Devra D., MARANGOZ C.
Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.230-241, 2017 (Peer-Reviewed Journal)
- X. **Effects of short and long term electromagnetic fields exposure on the human hippocampus**
Deniz O. G., KAPLAN S., SELÇUK M. B., TERZİ M., ALTUN G., YURT K. K., ASLAN K., DAVIS D.
Journal of Microscopy and Ultrastructure, vol.5, no.4, pp.191-197, 2017 (Peer-Reviewed Journal)
- XI. **Effect of palmitate on periodontal tissue destruction in experimental periodontitis rat model**
TÜRER Ç. C., Altun G.
JOURNAL OF CLINICAL AND ANALYTICAL MEDICINE, vol.8, pp.390-394, 2017 (ESCI)
- XII. **Periferik Sinir İçin Stereolojik İnceleme Yöntemi**
ÖNGER M. E., ALTUN G., Aydın I., Kıvrak E. G., Yurt K. K., ALTUNKAYNAK B. Z., KAPLAN S.
Türkiye Klinikleri Journal of Neurology Special Topics, vol.7, no.2, pp.56-60, 2014 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Histolojiye Giriş**
ALTUN G.
in: Diş hekimliği Öğrencileri için Histoloji ve Embriyoloji, Prof. Dr. Berrin Zuhul Altunkaynak, Dr. Işinsu ALKAN, Editor, NOBEL TIP KİTAPEVLERİ, Samsun, pp.3-7, 2022
- II. **Peripheral Nerve System and Nonsteroidal Anti-Inflammatory Drugs: Molecular, Morphological, and Clinical Approaches**
ALTUN G., KAPLAN A. A., YURT K. K., KAPLAN S.
in: A comprehensive guide to non-steroidal antiinflammatory drugs, Süleyman KAPLAN, Editor, Nova Science Publisher, Boston, pp.407-436, 2021
- III. **Effects of Methylphenidate and Atomoxetine on Development of the Brain.**
ALTUNKAYNAK B. Z., ÖNGER M. E., TÜRKMEN A. P., TÜFEKÇİ K. K., ALTUN G., YÜCE M., KAPLAN S.
in: Melatonin, Neuroprotective Agents and Antidepressant Therapy, Francisco López-Muñoz, Venkataramanujam Srinivasan, Domenico de Berardis, Cecilio Álamo, Takahiro A. Kato, Editor, Springer, New Delhi, pp.825-845, 2016
- IV. **Effects of Methylphenidate and Atomoxetine on Development of the Brain**
ALTUNKAYNAK B. Z., ÖNGER M. E., TÜRKMEN A. P., YURT K. K., ALTUN G., YÜCE M., KAPLAN S.
in: Melatonin Neuroprotective Agents and Antidepressant Therapy, Francisco López-Muñoz, Venkataramanujam Srinivasan, Domenico de Berardis, Cecilio Álamo, Takahiro A. Kato, Editor, Springer India, pp.825-845, 2016
- V. **Effects of Methylphenidate and Atomoxetine on Development of the Brain**
ALTUNKAYNAK B. Z., ÖNGER M. E., TÜRKMEN A. P., YURT K. K., ALTUN G., YÜCE M., KAPLAN S.
in: Melatonin Neuroprotective Agents and Antidepressant Therapy, Francisco López-Muñoz, Venkataramanujam Srinivasan, Domenico de Berardis, Cecilio Álamo, Takahiro A. Kato, Editor, Springer, pp.825-845, 2016
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ALTUNKAYNAK B. Z., ÖNGER M. E., TÜRKMEN A. P., TÜFEKÇİ K. K., ALTUN G., YÜCE M., KAPLAN S.
in: Melatonin, Neuroprotective Agents and Antidepressant Therapy, Francisco López-Muñoz, Venkataramanujam Srinivasan, Domenico de Berardis, Cecilio Álamo, Takahiro A. Kato, Editor, Springer, pp.825-845, 2016
- VII. **Embryology of the Peripheral Nerves**
ÖNGER M. E., TÜRKMEN A. P., ANNAÇ E., ALTUN G., DENİZ Ö. G., ALTUNKAYNAK B. Z., KAPLAN S.
in: Nerves and Nerve Injuries, Shane Tubbs, Elias Rizk, Mohammadali Shoja, Marios Loukas, Robert J. Spinner and Nicholas Barbaro, Editor, Elsevier, pp.37-40, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Lokal olarak uygulanan organik silikonun mandibular kemik iyileşmesi üzerine etkisi**
TÜRER A., DURMUŞLAR M. C., APAYDIN E. A., ALTUN G.
TAOMS 2017, 23 - 27 May 2017
- II. **Puerarin'in ligatür ile oluşturulan deneysel periodontitis rat modelinde alveolar kemik yıkımı ve RANKL/OPG oranına etkisi**
COŞKUN TÜRER Ç., BALLI U., DURMUŞ D., ALTUN G.
TAOMS 2017, 23 - 27 May 2017
- III. **Kudret Narı'nın (Momordica Charantia) tendon iyileşmesi üzerine etkisi**
Kuyubaşı N., COŞKUN H. S., PİŞKİN A., ALTUN G., ALTUNKAYNAK B. Z.
Kemik Eklem Cerrahi Derneği Kongresi 2017, Turkey, 27 April - 01 May 2017
- IV. **The influence of the omega 3 fatty acids on the liver exposed to 900 MHz electromagnetic field in rats a stereological Study**
YAHYAZADEH A., AYDIN I., KOCAMAN A., ALTUN G., ALTUNKAYNAK M. E., ONGER M. E., ALTUNKAYNAK B. Z., KAPLAN S.
2nd Asian and African Stereology Congress, 4 - 05 December 2015
- V. **Periferik sinir iyileşmesinde Vardenafilin etkisi Ratlarda deneysel çalışma**
SAY F., ÖNGER M. E., TİMURTAŞ Y., AKSAKAL A., ALTUN G., KÜÇÜKER İ., KAPLAN S.
25. Ulusal Türk ortopedi ve Travmatoloji Kongresi, Turkey, 27 October - 01 November 2015
- VI. **Effects of Short and Long Term of ElectromagneticField Exposure on the Human Hippocampus**
KAPLAN S., SELÇUK M. B., TERZİ M., ALTUNKAYNAK B. Z., DENİZ A., ASLAN K., ALTUN G., pınar a., Önger m. e., İNCESU L., et al.
BIOMED 2015, 21 - 24 October 2015
- VII. **Possible effects of some agents on the injured nerve in obese rats A stereological electrophysiological and electron microscopic study**
Önger M. E., KAPLAN S., Geuna S., Yahyzadeh A., TÜRKMEN A. P., Muratori L., ALTUN G., ALTUNKAYNAK B. Z.
3rd International Symposium on Peripheral Nerve Regeneration, 24 - 25 September 2015
- VIII. **Investigation Of The Effects Of Omega 3 And Melatonin On Adult Rat Brain Exposed To Electromagnetic Field**
ALTUN G., KOCACAN S. E., DENİZ Ö. G., Kıvrak E., TÜRKMEN A. P., Mehmet Emin Ö., ALTUNKAYNAK B. Z., KAPLAN S.
BioEM 2015, California, United States Of America, 14 - 19 June 2015
- IX. **EFFECTS OF BOSWELLIA SACRA AND FOLIC ACID ON HIPPOCAMPUS IN ELECTROMAGNETIC FIELD EXPOSED RATS**
KIVRAK E. G., ALTUNKAYNAK B. Z., DENİZ Ö. G., ALTUN G., TÜRKMEN A. P., ÖNGER M. E., KAPLAN S.
BioEM Joint Meeting, 14 - 19 June 2015
- X. **Effects of Boswellia sacra and folic acid on hippocampus in electromagnetic field exposed rats**
KIVRAK E. G., ALTUNKAYNAK B. Z., DENİZ Ö. G., ALTUN G., TÜRKMEN A. P., ÖNGER M. E., KAPLAN S.
BioEM2015, 14 - 19 June 2015
- XI. **Effects of long term of electromagnetic field exposure on the human hippocampus.**
DENİZ Ö. G., KAPLAN S., SELÇUK M. B., TERZİ M., ALTUN G., TÜFEKÇİ K. K., ASLAN K., DAVIS D.
Stereology and Neuroscience Symposium, 23 June 2014
- XII. **Effect of different doses of diclofenac sodium on the hippocampus development during the first trimester of pregnancy.**
ANNAÇ E., KAPLAN S., TÜRKMEN A. P., AKSOY A., YURT K. K., ALTUN G., ÖNGER M. E., ALTUNKAYNAK B. Z.
International 3rd Scientific Writing Stereology Workshop, 8 - 12 April 2014, vol.31, pp.136
- XIII. **DO MELATONIN LEPTIN AND ALCAR PROMOTE NERVE REGENERATION OF SCIATIC NERVE IN THE COLLAGEN TUBE**
ÖNGER M. E., KAPLAN S., DENİZ Ö. G., ALTUN G., ALTUNKAYNAK B. Z., raimondo s., GEUNA S.
2.INTERNATIONAL SYMPOSIUM OF PERIPHERAL NERVE REGERATION, 23 - 28 January 2014

Supported Projects

Altun G., Project Supported by Higher Education Institutions, The Annual Meeting BioelectromagneticS Society European Bioelectromagnetics Association, 2015 - 2015