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International Researcher IDs

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Biography

I completed my undergraduate studies in the Biology department, University of İstanbul. I earned my master's and doctorate degrees at the University of Delaware in the United States of America. I have been studying how the brain controls the reproductive system and how it regulates body weight. I started as Assist Prof at Abant İzzet Baysal University in 1997 and I became a full professor in 2008. Since 2009, I have been employed in the Biology Department at Çanakkale Onsekiz Mart University. I do study molecular and physiological control mechanisms between brain and obesity.

Education

Doctorate, University of Delaware, Department Of Biology , Fizyoloji, United States Of America 1994 - 1997

Postgraduate, University of Delaware, School Of Life And Health Sciences, Fizyoloji, United States Of America 1992 - 1994

Undergraduate, Istanbul University, Faculty Of Science, Biyoloji , Turkey 1986 - 1990

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Course, Deney Hayvanları Kullanım Sertifikası, University of Delaware, 1992

Dissertations

Doctorate, Melatonin-Induced Reproductive Development in Siberian Hamsters (*Phodopus sungorus*) : Dose and Time Dependencies , University of Delaware, Department Of Biology, Physiology, 1997

Postgraduate, Effects of Photoperiod, Pinealectomy, and Melatonin Implants on Testicular Development in Juvenile Siberian Hamsters (*Phodopus sungorus*, University of Delaware, School Of Life And Health Sciences, Physiology, 1994

Research Areas

Life Sciences, Biotechnology, Animal Biology, Animal Physiology, Neurobiology, Neurophysiology, Natural Sciences

Academic Positions

Professor, Canakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji, 2009 - Continues

Professor, Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, Biyoloji , 2008 - 2009

Associate Professor, Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, Biyoloji , 2003 - 2008

Assistant Professor, Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, Biyoloji , 1998 - 2003

Academic and Administrative Experience

Head of Department, Canakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji, 2011 - 2020

Head of Department, Canakkale Onsekiz Mart University, Fen Fakültesi, Biyoloji, 2014 - 2018

Canakkale Onsekiz Mart University, Fen Fakültesi, 2013 - 2015

Canakkale Onsekiz Mart University, Rektörlük, 2011 - 2015

Canakkale Onsekiz Mart University, Fen Fakültesi, 2011 - 2014

Canakkale Onsekiz Mart University, Fen Fakültesi, 2011 - 2014

Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, 1998 - 2009

Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, 2006 - 2006

Abant İzzet Baysal Üniversitesi, Rektörlük, 2006 - 2006

Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, 2001 - 2002

Courses

Postgraduate

Elektrofizyolojiye Giriş, Postgraduate, 2019 - 2020

Proje Yazımı ve Akademik Sunum Teknikleri, Postgraduate, 2019 - 2020

Undergraduate

Neuroscience, Undergraduate, 2019 - 2020

Animal Physiology, Undergraduate, 2019 - 2020

Sinirbiyolojisi, Undergraduate, 2014 - 2015

İnsan Üreme Biyolojisi ve Hastalıkları, Undergraduate, 2014 - 2015

Hayvan Fizyolojisi, Undergraduate, 2014 - 2015

General Biology, Undergraduate, 2014 - 2015

Endokrinoloji, Undergraduate, 2014 - 2015

Supervised Theses

Gündüz B., The Effects of Methyl Donor Nutrition on Kiss-1 / GPR54 and RFRP Gen Expressions on Reproductive Axis in Different Photoperiods, Doctorate, G.Akkuş(Student), 2024

Gündüz B., THE EFFECT OF MATERNAL NUTRIENT RESTRICTION ON THE DEVELOPMENT OF OFFSPRING AND NPY/AGRP GENE EXPRESSION IN SYRIAN HAMSTERS, Doctorate, P.İnan(Student), 2023

Gündüz B., Rhythmic changes in kisspeptin, GnRH, GnIH, mRNA levels and leptin- melatonin hormone in male Syrian hamsters with SCN lesion and/ or pinealectomy in long and short photoperiods, Doctorate, E.İnci(Student), 2023

Gündüz B., Zeytin (Olea europaea) Yaprağı Ekstraktlarının Dişi Suriye Hamsterlerinde (Mesocricetus auratus) Östrus Siklus Üzerine Etkileri, Postgraduate, S.Özsalmanlı(Student), 2022

Gündüz B., EFFECTS OF OLIVE (*Olea europaea*) LEAFS EXTRACTS ON CIRCADIAN RHYTHM AND TESTOSTERON HORMONE OF MALE SYRIAN HAMSTERS (*Mesocricetus auratus*), Postgraduate, O.Kortun(Student), 2018

GÜNDÜZ B., Suprakiazmatik Nukleusu (SCN) Lezyon Yapılmış Moğolistan Gerbillinde (*Meriones Unguiculatus*) Besin Davranışına Bağlı Olarak Leptin, Glikoz, Vücut Ağırlığı ve Lokomotor Aktivitede Meydana Gelen Değişimler, Postgraduate, N.Hasanoğlu(Student), 2014

GÜNDÜZ B., METİL DONÖRLE BESLENEN HAMİLE HAMSTER DIŞİLERDEN DOĞAN YAVRULARIN LOKOMOTOR AKTİVİTE, VÜCUT AĞIRLIĞI VE LEPTİN HORMONUNDA MEYDANA GELEN DEĞİŞİMLER, Postgraduate, S.Moroğlu(Student), 2014

GÜNDÜZ B., Mogolistan gerbillinde (*Meriones unguiculatus*) besin kısıtlaması sonucu östrus siklusunda ve leptin hormonundaki değişimler, Postgraduate, G.Gülşin(Student), 2014

GÜNDÜZ B., Obezite ilişkili Besin Alım Genleri AgRP (Agouti Related Peptide ve NPY (Neuropeptide Y) Anlatımlarının Besinden Yoksun Bırakılmış ve Besin Kısıtlaması Yapılmış Suriye Hamsterlerinde (*Mesocricetus auratus*) Belirlenmesi, Postgraduate, Z.Güneş(Student), 2013

GÜNDÜZ B., Leptin infusion to pregnant and pinealectomized syrian hamsters (*Mesocricetus auratus*) and locomotor activity of juveniles, Postgraduate, Ç.Çamsarı(Student), 2007

GÜNDÜZ B., Interaction Between Suprachiasmatic Nucleus (SCN) and Leptin Hormone and Their Effect on Puberty, Doctorate, A.Karakaş(Student), 2005

GÜNDÜZ B., Leptin hormone profiles in adult and its physiological functions in juvenile Syrian hamsters (*Mesocricetus auratus*), Postgraduate, F.Pehlivan(Student), 2003

GÜNDÜZ B., Regulation by photoperiod of seasonal changes in body mass and reproductive function in mongolian gerbils (*meriones unguiculatus*), Postgraduate, A.Karakaş(Student), 2001

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Effects of Lavender *Lavandula Angustifolia* Extract on Reproductive System in Male Syrian Hamsters *Mesocricetus auratus***
Balkan E. I., Kiral I. C., Sekerci E. Y., GÜNDÜZ B.
ACTA PHYSIOLOGICA, vol.234, pp.85, 2022 (SCI-Expanded)
- II. **The Effect of St. John's Wort *Hypericum perforatum* L. Extract on Body Weight, Food Consumption and Serum Leptin Hormone in Female Syrian Hamsters *Mesocricetus auratus***
Balkan E. I., Sekerci E. Y., Kiral I. C., GÜNDÜZ B.
ACTA PHYSIOLOGICA, vol.234, pp.84, 2022 (SCI-Expanded)
- III. **Influence of *Helichrysum arenarium* on hemocyte-mediated immune responses and phenoloxidase enzyme activity of model organism *Galleria mellonella* (L.)**
KAYA S., Akkus G., Turkdogan S., GÜNDÜZ B.
INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE, vol.41, no.4, pp.2521-2528, 2021 (SCI-Expanded)
- IV. **Methyl donor supplementation alters serum leptin levels and increases appetite but not body weight in cross-fostered male Syrian hamster offspring (*Mesocricetus auratus*)**
Gündüz B., Okimoto D. K.
Journal Of Animal Physiology And Animal Nutrition, vol.2021, pp.1-9, 2021 (SCI-Expanded)
- V. **Molecular evaluation of obesity-related hypothalamic NPY and AgRP gene expressions in melatonin injected and pinealectomized Syrian hamsters (*Mesocricetus auratus*) housed in short and long photoperiod**
Gündüz B., Nursel H.
ACTA PHYSIOLOGICA, vol.217, pp.98, 2016 (SCI-Expanded)
- VI. **Effects of day-time and night-time food restriction on hypothalamic genes in adult mongolian gerbils (*Meriones unguiculatus*) housed in long and short photoperiods**
Hasanoglu N., Sonmez H., Gündüz B.
ACTA PHYSIOLOGICA, vol.217, pp.102-103, 2016 (SCI-Expanded)
- VII. **The effects of the intraamygdalar melatonin injections on the anxiety like behavior and the spatial memory performance in male Wistar rats**

KARAKAŞ A., COŞKUN H., Kaya A., KÜÇÜK A., GÜNDÜZ B.

BEHAVIOURAL BRAIN RESEARCH, vol.222, no.1, pp.141-150, 2011 (SCI-Expanded)

- VIII. **The effects of leptin hormone on locomotor activity in Syrian hamsters (*Mesocricetus auratus*)**
GÜNDÜZ B., KARAKAŞ A.
TURKISH JOURNAL OF BIOLOGY, vol.35, no.6, pp.727-734, 2011 (SCI-Expanded)
- IX. **THE EFFECT OF PINEALECTOMY, MELATONIN AND LEPTIN HORMONES ON OVARIAN FOLLICULAR DEVELOPMENT IN FEMALE SYRIAN HAMSTERS (*MESOCRICETUS AURATUS*)**
Karakas A., Kaya A., Gunduz B.
ACTA BIOLOGICA HUNGARICA, vol.61, no.4, pp.380-390, 2010 (SCI-Expanded)
- X. **Effects of pinealectomy and melatonin supplementation on endometrial explants in a rat model**
Koc O., Gunduz B., Topcuoglu A., Bugdayci G., Yilmaz F., Duran B.
EUROPEAN JOURNAL OF OBSTETRICS & GYNECOLOGY AND REPRODUCTIVE BIOLOGY, vol.153, no.1, pp.72-76, 2010 (SCI-Expanded)
- XI. **Rhythms of serum melatonin in rats with acute spinal cord injury at the cervical and thoracic regions**
Gezici A. R., Karakas A., Ergun R., Gunduz B.
SPINAL CORD, vol.48, no.1, pp.10-14, 2010 (SCI-Expanded)
- XII. **The Effects of Pinealectomy and Melatonin Implants on Circadian Locomotor Activity Responses of the Mongolian Gerbils Exposed to Rapid Photoperiodic Transitions**
GÜNDÜZ B., KARAKAŞ A.
JOURNAL OF NEUROLOGICAL SCIENCES-TURKISH, vol.27, no.4, pp.429-437, 2010 (SCI-Expanded)
- XIII. **Serum Leptin Levels Following Acute Experimental Spinal Cord Injury**
GEZİCİ A. R., Ergun R., KARAKAŞ A., GÜNDÜZ B.
JOURNAL OF SPINAL CORD MEDICINE, vol.32, no.4, pp.416-421, 2009 (SCI-Expanded)
- XIV. **The effect of pinealectomy and leptin hormone on the proliferation and apoptosis activation in Syrian hamster testis in different photoperiods**
Gunduz B., Karakas A., Terzi H., Oner J., Serin E., Kukner A.
INTERNATIONAL JOURNAL OF ANDROLOGY, vol.32, no.4, pp.343-352, 2009 (SCI-Expanded)
- XV. **Serum cortisol levels following acute experimental spinal cord injury**
GEZİCİ A. R., KARAKAŞ A., Ergun R., GÜNDÜZ B.
NEUROLOGIA I NEUROCHIRURGIA POLSKA, vol.43, no.4, pp.352-357, 2009 (SCI-Expanded)
- XVI. **Effects of European mistletoe (*Viscum album* L. subsp. *album*) extracts on activity rhythms of the Syrian hamsters (*Mesocricetus auratus*)**
Karakas A., Turker A. U., GÜNDÜZ B.
NATURAL PRODUCT RESEARCH, vol.22, no.11, pp.996-1006, 2008 (SCI-Expanded)
- XVII. **The Effects of Mistletoe (*Viscum album* L. subsp. *album*) Extracts on Isolated Intestinal Contractions**
Karakas A., GÜNDÜZ B.
TURKISH JOURNAL OF BIOLOGY, vol.232, pp.237-241, 2008 (SCI-Expanded)
- XVIII. **Suprachiasmatic nuclei may regulate the rhythm of leptin hormone release in Syrian hamsters (*Mesocricetus auratus*)**
Karakas A., Gunduz B.
CHRONOBIOLOGY INTERNATIONAL, vol.23, pp.225-236, 2006 (SCI-Expanded)
- XIX. **Effects of photoperiod and food availability on growth, leptin, sexual maturation and maintenance in the Mongolian gerbils (*Meriones unguiculatus*)**
Karakas A., Çamsarı C., Serin E., Gunduz B.
ZOOLOGICAL SCIENCE, vol.22, no.6, pp.665-670, 2005 (SCI-Expanded)
- XX. **Maternal transfer of photoperiodic information in Siberian hamsters. vi. effects of time-dependent 1-hr melatonin infusions in the mother on photoperiod-induced testicular development of her offspring**
Gunduz B., Stetson M. H.
JOURNAL OF PINEAL RESEARCH, vol.34, no.3, pp.217-225, 2003 (SCI-Expanded)

- XXI. **Effect of different photoperiods on gonadal maintenance and development in mongolian gerbils (*Meriones unguiculatus*)**
Karakas A., Gunduz B.
ZOOLOGICAL SCIENCE, vol.19, no.2, pp.233-239, 2002 (SCI-Expanded)
- XXII. **Testicular status in pinealectomized adult Mongolian gerbil (*Meriones unguiculatus*)**
Karakas A., Gunduz B.
ISRAEL JOURNAL OF ZOOLOGY, vol.48, no.3, pp.189-196, 2002 (SCI-Expanded)
- XXIII. **Daily rhythm in serum melatonin and leptin levels in the Syrian hamster (*Mesocricetus auratus*)**
Gündüz B.
Comparative Biochemistry and Physiology - A Molecular and Integrative Physiology, vol.132, no.2, pp.393-401, 2002 (SCI-Expanded)
- XXIV. **A test of the coincidence and duration models of melatonin action in Siberian hamsters: the effects of 1-hr melatonin infusions on testicular development in intact and pinealectomized prepubertal *Phodopus sungorus***
Gunduz B., Stetson M. H.
JOURNAL OF PINEAL RESEARCH, vol.30, no.2, pp.97-107, 2001 (SCI-Expanded)
- XXV. **A test of the coincidence and duration models of melatonin action in Siberian hamsters. II. The effects of 4-and 8-hr melatonin infusions on testicular development of pinealectomized juvenile Siberian hamsters (*Phodopus sungorus*)**
Gunduz B., Stetson M. H.
JOURNAL OF PINEAL RESEARCH, vol.30, no.1, pp.56-64, 2001 (SCI-Expanded)
- XXVI. **Gündüz B and Stetson MH (1998) The Impact of Photoperiods and Melatonin on Gonadal Development in Juvenile Turkish Hamster (*Mesocricetus brandti*).**
GÜNDÜZ B.
Journal of Pineal Research, pp.193-200, 1998 (SCI-Expanded)
- XXVII. **Gündüz B and Stetson MH (1994) Effects of Photoperiod, Pinealectomy, and Melatonin Implants on Testicular Development in Juvenile Siberian Hamsters (*Phodopus sungorus*). Biology of Reproduction, 51:1181-1187.**
GÜNDÜZ B.
BIOLOGY OF REPRODUCTION, no.51, pp.1181-1187, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **Melatonin - leptin interaction and obesity-related genes**
Gündüz B., Balkan E. İ.
TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.26, no.1, pp.93-102, 2025 (ESCI)
- II. **Variation of NPY and AGRP MRNA expression in Syrian hamsters according to feeding times**
İnan P., Gündüz B.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.5, pp.1-8, 2024 (ESCI)
- III. **Determination of Appropriate Endogenous Reference Genes for RT-qPCR Analysis in Syrian (Golden) Hamsters and Mongolian Gerbils**
Gündüz B., Önder B., Uzgan T.
JOURNAL OF BASIC AND CLINICAL HEALTH SCIENCES, vol.8, pp.533-542, 2024 (ESCI)
- IV. **The Effect of Methyl Donor Nutrition on Global DNA Methylation Levels in Different Photoperiods in Syrian Hamsters**
Akkuş G., Gündüz B.
International Journal for Multidisciplinary Research, vol.6, no.4, pp.1-11, 2024 (Peer-Reviewed Journal)
- V. **Circadian Rhythm and Leptin Hormone Responses to Nutritional Restriction in Gerbils (*Meriones unguiculatus*) with Suprachiasmatic Nucleus Lesions**
Gündüz B., Önder B. Ö., Ekin A., Akbulut N.

Commagene Journal of Biology, vol.7, no.2, pp.119-126, 2023 (Scopus)

- VI. **Reproductive Development of Japanese Quail (*Coturnix coturnix japonica*) in Males and Females Subjected to Leptin Injections**
Gündüz B.
Acta Veterinaria Eurasia, vol.49, no.3, pp.149-154, 2023 (ESCI)
- VII. **Adult Male Syrian Hamsters (*Mesocricetus auratus*) Exhibit Daily Oscillations in Their Serum Levels of Melatonin and Leptin As Well As in the Expression of the GnRH, GnIH, and Kisspeptin Genes**
Balkan E. İ., Gündüz B.
TURKISH JOURNAL OF AGRICULTURAL AND NATURAL SCIENCE, vol.10, no.1, pp.68-75, 2023 (Peer-Reviewed Journal)
- VIII. **Effects of Supplementation with Iron, Selenium and Magnesium on *Galleria mellonella* Cell-Mediated Immune Responses**
Kaya S., Gündüz B.
Turkish Journal of Agricultural and Natural Sciences, vol.8, no.3, pp.605-614, 2021 (Peer-Reviewed Journal)
- IX. **Near-resonant diurnal reactions: a physical model applicable to origin of life processes**
Budding E., Akı C., Demircan O., Gündüz B., Gündüz G., Özel M. E.
TURKISH JOURNAL OF PHYSICS, vol.36, no.3, pp.473-493, 2012 (Scopus)
- X. **The effects of intraperitoneal melatonin injection and pinealectomy in experimental acute pancreatitis**
DİNLER K., HASDEMİR A. O., ÇÖL C., GÜNDÜZ B., BUĞDAYCI G., KÜKNER A.
J Ist Faculty Med., vol.72, pp.84-82, 2009 (Peer-Reviewed Journal)
- XI. **Food Restriction Affects Locomotor Activity in Mongolian Gerbils (*Meriones unguiculatus*)**
Karakas A., Serin E., Gündüz B.
TURKISH JOURNAL OF BIOLOGY, vol.30, no.1, pp.23-28, 2006 (Scopus)
- XII. **Leptin ve Üreme Sistemi**
GÜNDÜZ B.
Genel Tıp Dergisi, vol.13, no.2, pp.22-23, 2003 (Non Peer-Reviewed Journal)
- XIII. **Suriye Hamsterlerinde Östrus Siklusu Boyunca Leptin Hormon Profili** 13 2 62 63
PEHLİVAN KARAKAŞ F., KARAKAŞ A., GÜNDÜZ B.
Genel Tıp Dergisi, vol.13, no.2, pp.62-63, 2003 (Non Peer-Reviewed Journal)
- XIV. **Photoperiodic Control of Testis Activity in the Mongolian Gerbil *Meriones unguiculatus***
GÜNDÜZ B., KARAKAŞ A.
The Sciences (J. Med. Sci.), vol.1, no.3, pp.121-124, 2001 (Peer-Reviewed Journal)
- XV. **Protective Effects of Melatonin on Streptozotocin-Induced Diabetes in Mice.**
Gündüz B.
JOURNAL OF MEDICAL SCIENCES, vol.1, no.3, pp.117-120, 2001 (Peer-Reviewed Journal)
- XVI. **Hidroksil Temizleyici Bir Hormon Olarak; Melatonin**
Gündüz B.
Gülhane Tıp Dergisi, vol.41, no.2, pp.252-257, 1999 (Peer-Reviewed Journal)

Books

- I. **Effects Of St. John's Wort (*Hypericum Perforatum*) On Daily Food Consumption, Body Weight, Leptin Hormone And Blood Glucose Levels In Syrian Hamsters**
GÜNDÜZ B., BALKAN E. İ.
in: Biyolojide İleri Araştırmalar, ÇÖRDÜK NURŞEN, Editor, YAZ Yayınları, Afyonkarahisar, pp.69-80, 2024
- II. **ATRIYAL NATRIÜRETİK PEPTİD (ANP) İLE KARDİYOVASKÜLER HOMEOSTAZ ARASINDAKİ SİRKADİYEN İLİŞKİ**
Gündüz B., Ekin A.
in: Biyoloji Alanında Uluslararası Araştırma ve Değerlendirmeler, AKGÜL HASAN, Editor, Serüven Yayınevi /

Serüven Publishing, Ankara, pp.53-73, 2024

III. EFFECT OF LAVENDER TEA ON LOCOMOTOR ACTIVITY

BALKAN E. İ., GÜNDÜZ B.

in: International Research in the Field of Biology, TAŞAR GANİ ERHAN, CANLI TAŞAR ÖZDEN, Editor, Eğitim Publishing Group, Inc., Konya, pp.37-45, 2024

IV. Does Lavender Herbal Tea (*Lavandula angustifolia* L.) Affect the Estrous Cycle?

BALKAN E. İ., GÜNDÜZ B.

in: New Current Topics in Biological Sciences, BİLGİLİ ALİ, Editor, BIDGE Publications, Ankara, pp.6-19, 2024

V. Histology Lecture Notes

GÜNDÜZ B.

Abant İzzet Baysal Üniversitesi Araştırma Ve Geliştirme Vakfı, Bolu, 2005

Papers Presented at Peer-Reviewed Scientific Conferences

I. Effects of Different Doses of Lavender (*Lavandula angustifolia*) on Pubertal Development and Hormones in Male Syrian Hamsters (*Mesocricetus auratus*)

Balkan E. İ., Kırıl İ. C., Gündüz B.

49th Turkish Physiology Congress, İzmir, Turkey, 6 - 09 November 2024, pp.1, (Summary Text)

II. Rhythmic Changes in GnIH Gene Expression and Leptin Hormone in Male Syrian Hamsters with Suprachiasmatic Nucleus Lesions Under Different Photoperiods

Balkan E. İ., Gündüz B.

22. Ulusal Sinirbilim Kongresi, İstanbul, Turkey, 3 - 06 September 2024, pp.306-307, (Summary Text)

III. Leptin and melatonin rhythms in Syrian Hamsters during inflammation

Önder Uzgan B., Koray B. A., Gündüz B.

36th ECNP Congress, Barcelona, Spain, 07 October 2023, pp.1-2, (Summary Text)

IV. H. PERFORATUM L. AFFECTS LOCOMOTOR ACTIVITY, BODY WEIGHT AND BLOOD GLUCOSE

Uzgan B. Ö., Yağan B. D., Gündüz B.

The 8th International Mediterranean Symposium on Medicinal and Aromatic Plants, İzmir, Turkey, 20 - 22 October 2022, pp.138-145, (Full Text)

V. St. John's Wort in male Syrian hamsters (*Mesocricetus auratus*) The effect of (*Hypericum perforatum* L.) extract on locomotor activity

Balkan E. İ., Kırıl İ. C., Gündüz B.

19. Ulusal Sinir Bilim Kongresi, Çanakkale, Turkey, 19 - 21 November 2021, pp.121, (Summary Text)

VI. Zeytin (*Olea europaea*) yaprağı ekstratlarının dişi Suriye hamsterlerinin (*Mesocricetus auratus*) östrus siklusu üzerine etkileri

Gündüz B., Özsalmanlı S.

Trakya Üniversiteler Birliği V. Lisansüstü Öğrenci Kongresi , Balıkesir, Turkey, 4 - 05 November 2021, pp.7-8, (Summary Text)

VII. The Effect of *Mesocricetus auratus* St. John's Wort (*Hypericum perforatum* L.) Extract on Body Weight, Food Consumption and Serum Leptin Hormone in Female Syrian Hamsters

Balkan E. İ., Şekerci E. Y., Kırıl İ. C., Gündüz B.

46. Ulusal Fizioloji Kongresi, İstanbul, Turkey, 8 - 10 October 2021, pp.87, (Summary Text)

VIII. Effects of Lavender (*Lavandula angustifolia*) Extract on the Reproductive System of (*Mesocricetus auratus*) in Male Syrian Hamsters

Balkan E. İ., Kırıl İ. C., Şekerci E. Y., Gündüz B.

46. Ulusal Fizioloji Kongresi, İstanbul, Turkey, 8 - 10 October 2021, pp.88, (Summary Text)

IX. EFFECTS OF DIFFERENT CONCENTRATIONS OF DIMETHYL SULFOXIDE ON *Galleria mellonella* HEMOLYMPH PHENOL OXIDASE ACTIVITY

KAYA S., TÜRKDOĞAN S., GÜNDÜZ B.

International Biological, Agricultural and Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, (Summary

Text)

- X. **EFFECTS OF DIMETHYL SULFOXIDE ON THE HEMOCYTE CONTENT OF *Galleria mellonella***
BALKAN E. İ., KAYA S., GÜNDÜZ B.
International Biological, Agricultural and Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, (Summary Text)
- XI. **EFFECTS OF ENRICHED NUTRITION WITH INORGANIC SUBSTANCE ON GALLERIA MELLONELLA HEMOCYTES AND ENCAPSULATION-MELANIZATION RESPONSE**
KAYA S., GÜNDÜZ B.
International Biological, Agricultural and Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, (Summary Text)
- XII. **THE EFFECTS OF *Salvia officinalis* EXTRACT ON *Galleria mellonella* PHENOLOXIDASE ACTIVITY**
Akkuş G., KAYA S., GÜNDÜZ B.
International Biological, Agricultural and Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, (Summary Text)
- XIII. ***Helichrysum arenarium* INDUCED PHENOLOXIDASE ACTIVITY IN *Galleria mellonella* HEMOLYMPH**
KAYA S., Akkuş G., GÜNDÜZ B.
International Biological, Agricultural and Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, (Summary Text)
- XIV. **EFFECTS of *HYPERICUM PERFORATUM* on HEMOCYTE COUNT of *Galleria mellonella***
Çakaloğlu Ç., Balkan E. İ., Gündüz B.
International Biological, Agricultural And Life Science Congress, Lviv, Ukraine, 7 - 08 November 2019, pp.142, (Summary Text)
- XV. **Influence of *Helichrysum arenarium* on Hemocytes and Encapsulation-Melanization Immune Responses of Model Organism *Galleria mellonella***
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- XXVIII. **Beslenme Davranışı Gerbillerde *Meriones Unguiculatus* Faz Kayması Yaratarak Sirkadiyen Ritimleri Etkileyebilir**
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- XLVIII. **The Effects of Pinealectomy, Melatonin and Leptin Hormones on Cerebral Ischemia Reperfusion Injury in Ovariectomized Syrian Hamsters**
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- L. **Suriye hamsterlerinde sürekli ışık uygulamasının oluşturduğu hematolojik immünolojik ve hormonal değişiklikler üzerine leptin hormonunun etkileri**
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- LVI. **Kindling and Locomotor Activity in Mongolian gerbils**
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- LVII. **Suriye hamsterlerinde Mesocricetus auratus melatonin hormonunun nöronal ateşleme hızı üzerine etkileri**
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- LX. **Effects of Pineal Gland and Melatonin Hormone on Implant Development in Endometrial Implanted Rats**

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- LXI. **Endometrial İmplant Yapılmış Sıçanlarda Pineal Bez ve Melatonin Hormonunun İmplant Gelişimine Etkileri**

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- LXIII. **Effects of leptin hormone on neuronal firing rate and rhythm in the suprachiasmatic nucleus of Syrian hamsters.**

Sumbul A., Karakaş A., Gündüz B.

XXXII. Ulusal Kongresi, Denizli, Turkey, 18 - 22 September 2006, pp.139, (Summary Text)

- LXIV. **Relationship between body and reproductive organ weight and leptin levels in prepubertal Syrian hamsters fed a hypercaloric diet.**

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- LXV. **The effects of mistletoe (*Viscum album* L.) extracts on isolated ileum contraction**

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- LXVI. **The reducing effect of fennel (*Foeniculuin vulgaris*) extracts on the uterine contractions changes according to the preparation method**

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- LXVII. **Effects of Pinealactomy and Leptin Hormone on Proliferative and Apoptotic Activation in Testicular Tissue in Different Photoperiod**

Karakaş A., Terzi E., Öner J., Serin E., Gündüz B.

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- LXVIII. **Farklı Fotoperiodlarda Pinealektomi ve Leptin Hormonunun Kobay Testis Dokusundaki Proliferatif ve Apoptotik Aktivasyona Etkileri**

KARAKAŞ A., TERZİ E. H., ÖNER J., SERİN E., KÜKNER A., GÜNDÜZ B.

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- LXIX. **Effect of melatonin injection on respiratory function in Syrian hamsters (*Mesocricetus auratus*): role of anesthetics**

Karakaş A., Gündüz B.

18. Ulusal Biyoloji Kongresi, Aydın, Turkey, 26 - 30 June 2006, pp.168-169, (Summary Text)

- LXX. **In Siberian hamsters (*Phodopus sungorus*) leptin infusion affects body weight and locomotor activity depending on the photoperiod**

Karakaş A., Gündüz B.

18. Ulusal Biyoloji Kongresi, Aydın, Turkey, 26 - 30 June 2006, pp.37, (Summary Text)

- LXXI. **Effects of light of different wavelengths on locomotor activity of Mongolian gerbils (*Meriones unguiculatus*)**

Karakaş A., Gündüz B.

18. Ulusal Biyoloji Kongresi, Aydın, Turkey, 26 - 30 June 2006, pp.169, (Summary Text)

- LXXII. **Farklı dalgaboylarındaki ışığın Moğolistan gerbillerinin *Meriones unguiculatus* lokomotor aktivitesi üzerine etkileri**

KARAKAŞ A., GÜNDÜZ B.

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- LXXIII. **Sibirya hamsterlerinde *Phodopus sungorus* leptin infüzyonu vücut ağırlığı ve lokomotor aktiviteyi**

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KARAKAŞ A., GÜNDÜZ B.

18. Ulusal Biyoloji Kongresi, Aydın, Turkey, 21 - 24 June 2006

- LXXIV. **Karakaş A Gündüz B Suriye hamsterlerinde Mesocricetus auratus melatonin enjeksiyonunun solunum fonksiyonlarına etkisi anestetiklerin rolü**

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- LXXV. **Melatonin phase advances the neuronal activity peak in SCN of the Syrian hamster**

Karakaş A., Sumbul A., Gündüz B.

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- LXXVI. **Sümbül A Karakaş A Gündüz B Leptin hormonunun Suriye hamsterlerinin suprakiazmatik nükleusundaki nöronal ateşleme hızı ve ritmi üzerine etkileri**

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- LXXVII. **Hiperkalorik diyetle beslenen prepubertal Suriye hamsterlerinde vücut ve üreme organ ağırlığı ile leptin seviyeleri arasındaki ilişki**

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- LXXVIII. **Effects of Maternal Leptin, Insulin and Melatonin Injections on Prepubertal Development in Young Syrian Hamsters**

Hacıoğlu E., Karakaş A., Gündüz B.

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- LXXIX. **The arrhythmic locomotor activity rhythm of the Syrian hamsters can be reentrained by the leptin infusions**

KARAKAŞ A., GÜNDÜZ B.

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- LXXX. **Effects of Plantain (Plantago lanseolata) Extracts on Formaldehyde-Induced Lung Injury**

Karakaş A., Kümbet Y., Gündüz B.

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- LXXXI. **The effects of formaldehyde and xylene on the respiratory parameters of the Syrian hamsters**

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- LXXXII. **The effects of maternal leptin administration on the fetal brain development**

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- LXXXIII. **The Effects of Formaldehyde and Xylene on the Respiratory Functions of Syrian Hamsters (Mesocricetus auratus)**

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- LXXXIV. **The effects of Plantago lanseolata extracts on the formaldehyde induced lung deficiency in Syrian hamsters**

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- LXXXV. **Arrhythmic Locomotor Activity Rhythm in Syrian Hamsters Can Be Rearranged by Leptin Infusion**

Karakaş A., Gündüz B.

XXXI. Ulusal Fizyoloji Kongresi , Gaziantep, Turkey, 27 - 30 September 2005, pp.74, (Summary Text)

- LXXXVI. **Effects of Maternal Leptin Administration on Fetal Brain Development in Syrian Hamsters**

Karakaş A., Andaç Ş., Gündüz B.

XXXI. Ulusal Fizyoloji Kongresi, Gaziantep, Turkey, 27 - 30 September 2005, pp.73, (Summary Text)

- LXXXVII. **The effect of maternal leptin insulin and melatonin injections on prepubertal development of the Syrian hamster**

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LXXXVIII. Effects of Leptin Injection and Pineal Gland on Fat Tissue Metabolism

Serin E., Karakaş A., Gündüz B.

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SERİN E., KARAKAŞ A., GÜNDÜZ B.

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XC. Suprachiasmatic nuclei directly regulate the rhythm of leptin hormone release in Syrian hamsters (Mesocricetus auratus)

Karakaş A., Gündüz B.

10th Congress of the EPBRS, Frankfurt, Germany, 1 - 05 September 2005, pp.28, (Summary Text)

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Karakaş A., Çamsarı Ç., Gündüz B.

10th Congress of the EPBRS, Frankfurt, Germany, 1 - 05 September 2005, pp.97, (Summary Text)

XCII. Effects of Mistletoes (Viscum album L.) Extracts on Electrocardiogram and Respiratory Parameters of the Syrian Hamsters (Mesocricetus auratus)

Karakaş A., Pehlivan Karakaş F., Türker A., Gündüz B.

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XCIII. Mistletoes (Viscum album L.) Extracts Tests on Activity Rhythms of the Syrian Hamsters

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XCIV. Cerebral Ischemia Reperfusion damage the effects of exercise melatonin and pinealectomy

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XCIV. Cerebral Ischemia Reperfusion Injury: Effects of Exercise, Melatonin and Pinealectomy

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XCVIII. The effects of caffeine on motor activity rhythm in adult Syrian hamsters

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XCIX. Activity rhythm can be entrained by food restriction in Mongolian gerbils

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Soytürk H., Yılmaz H., Karakaş A., Gündüz B.

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Çamsari Ç., Karakaş A., Gündüz B.

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CIII. Effects of Caffeine on the Development of Young Syrian Hamsters

Yılmaz H., Soytürk H., Karakaş A., Gündüz B.

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CIV. Effects of Maternal Transfer on Reproductive System Development in Mongolian Gerbils

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Gündüz B., Özata M.

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CXVI. Leptin Hormonunun Genç Erkek Suriye Hamsterlerinde Üreme Sisteminin Gelişimi Besin Alımı ve Vücut Ağırlıkları Üzerine Etkileri

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- CXVII. **Daily Melatonin and Leptin Rhythm in Golden Hamsters**
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- CXIX. **The Role of pineal Gland on Testis Activity and Body Weight Regulation in Mongolian gerbils**
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- CXX. **Golden Hamsterlarda Günlük Melatonin ve Leptin Ritmi**
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American Society of Zoologists Annual Meeting with the American Microscopical Society and the Crustacean Society, Washington, United States Of America, 26 - 30 December 1995, pp.98, (Summary Text)

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GÜNDÜZ B., Balkan E. İ., Project Supported by Higher Education Institutions, UZUN VE KISA FOTOPERİYOTLARDA SCN

LEZYONU VE/VEYA PİNEALEKTOMİLİ ERKEK SURİYE HAMSTERLERİNDE KİSSPEPTİN, GnRH, GnIH GEN EKSPRESYONU İLE LEPTİN VE MELATONİN HORMONUNDAKİ RİTMİK DEĞİŞİKLİKLER, 2021 - 2023

GÜNDÜZ B., İNAN P., Project Supported by Higher Education Institutions, MATERNAL BESİN KISITLAMASININ SURİYE HAMSTERLERİNDE YAVRU GELİŞİMİ VE NPY/AGRP GEN EKSPRESYONU ÜZERİNE ETKİSİ, 2020 - 2023

KAYA S., GÜNDÜZ B., Project Supported by Higher Education Institutions, İnorganik maddelerce zengin beslenmenin *Galleria mellonella* L Hemositleri üzerine etkileri, 2018 - 2020

GÜNDÜZ B., KORTUN O., Project Supported by Higher Education Institutions, Zeytin *Olea europaea* yaprağı ekstratlarının erkek Suriye Hamsterlerinde (*Mesocricetus auratus*) Sirkadyen Ritmi ve Testosteron Hormonu Üzerine Etkileri, 2016 - 2018

GÜNDÜZ B., Project Supported by Higher Education Institutions, Farklı Annelerce Yetiştirilen Yavrularda Laktasyon Boyunca Metil Donör Beslenmenin Aktivite Leptin ve Vücut Ağırlığındaki Değişimleri, 2015 - 2018

GÜNDÜZ B., Project Supported by Higher Education Institutions, Golden Hamsterlerde (*Mesocricetus auratus*) Hamilelik Süresince Besin Kalitesinin ve Pinealektominin Leptin Hormonu Üzerine Etkisi, 2012 - 2016

GÜNDÜZ B., TOK C. V., UYSAL İ., GÖNÜZ A., AKI C., YALÇIN ÖZDİLEK Ş., HAYRETDAG S., TOSUNOĞLU M., KOÇUM E., TURGUT GENÇ T., et al., Project Supported by Higher Education Institutions, Biyoloji Bölümü Ortak Laboratuvar İyileştirme Projesi, 2014 - 2015

Gündüz B., TUBİTAK Project, Melatonin Enjeksiyonu Ve Pinealektomi Yapılmış Suriye Hamsterlerinde (*Mesocricetus Auratus*) Obezite İlişkili Hipotalamik Npy Ve Agrp Gen Anlatımlarındaki Fotoperiyodik Değişimlerin Moleküler Düzeyde Aydınlatılması, 2013 - 2014

GÜNDÜZ B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, ÇOMÜ Merkez Laboratuvarı Kurulması, 2011 - 2014

GÜNDÜZ B., SAVAŞ T., Project Supported by Higher Education Institutions, Leptin Dozuna Bağlı Olarak Bıldırcınlarda Puberteye Giriş Zamanı Değişir mi?, 2010 - 2014

GÜNDÜZ B., HASANOĞLU N., Project Supported by Higher Education Institutions, Suprakiazmatik Nukleusu (SCN) Lezyon Yapılmış Moğolistan Gerbilllerinde (*Meriones Unguiculatus*) Besin Davranışına Bağlı Olarak Leptin, Glikoz, Vücut Ağırlığı ve Lokomotor Aktivitede Meydana Gelen Değişimler, 2012 - 2013

GÜNDÜZ B., EU Supported Other Project, Besin Alımı ve Vücut Ağırlığı Değişimine Çevresel (Fotoperiyodik) ve Maternal Faktörlerin Etkileri ve Bu Etkileşimin Erkek ve Dişilerde (Hamster ve Gerbil) Beynin Hipotalamik Bölgesindeki Genetiksel Düzenlemeleri, 2011 - 2013

Gündüz B., Taşkın K. M., TÜBİTAK - AB COST Project, Besin Alımı ve Vücut Ağırlığı Değişimine Çevresel Fotoperiyodik ve Maternal Faktörlerin Etkileri ve Bu Etkileşimin Erkek ve Dişilerde Hamster ve Gerbil Beynin Hipotalamik Bölgesindeki Genetiksel Düzenlemeleri, 2011 - 2013

GÜNDÜZ B., SAVAŞ T., Project Supported by Higher Education Institutions, Erkek Bıldırcınlarda (*Coturnix coturnix japonica*) Serumdaki Günlük Melatonin ve Leptin Hormonlarının Ritmi, 2010 - 2011

GÜNDÜZ B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Üreme Sistemi ve Yağ Doku Metabolizmasındaki Mevsimsel Değişimlerde Fotoperiyot, Melatonin ve Leptin Hormonlarının Rolü, 2004 - 2006

GÜNDÜZ B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Fotoperiyodik Bilginin Maternal İletiminde Suprakiazmatik Nükleus (SCN) ve Pineal Bezinin Rolü, 1998 - 2002

Activities in Scientific Journals

Turkish Journal of Biology, Editor, 2010 - Continues

Metrics

Publication: 175

Citation (WoS): 223

Citation (Scopus): 266

H-Index (WoS): 8

H-Index (Scopus): 9

Scholarships

Master/Doktora Bursu, World Bank, 1991 - 1997

Awards

GÜNDÜZ B., FEPS&FPA Award, Federation of European Physiological Societies, July 2016

Non Academic Experience

Çanakkale Onsekiz Mart Üniversitesi, Öğretim üyesi

Abant İzzet Baysal Üniversitesi, Öğretim üyesi