

## Prof. BÜLENT GÜNDÜZ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAA-5763-2019

Yoksis Researcher ID: 23981

### 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 Information

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 Titles / Tasks

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

Neuroscience, Undergraduate, 2019 - 2020

Elektrofizyolojiye Giriş, Postgraduate, 2019 - 2020

Animal Physiology, Undergraduate, 2019 - 2020

Proje Yazımı ve Akademik Sunum Teknikleri, Postgraduate, 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

## Advising Theses

Gündüz B., Hamilelik Döneminde Besin İçeriğinin ve Tüketim Zamanının Anne ve Yavrudaki NPY/AgRP, Leptin Gen İfadeleri ve Protein Düzeylerine Olan Etkileri, Doctorate, B.ÖNDER(Student), Continues

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), Continues

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., Suprachiasmatic Nucleus (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

## Published journal articles indexed by 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*)**  
Karakaş 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*)**  
Karakaş 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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)

- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Leptin ve Üreme Sistemi**  
GÜNDÜZ B.  
Genel Tıp Dergisi, vol.13, no.2, pp.22-23, 2003 (Non Peer-Reviewed Journal)
- XI. **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)
- XII. **Protective Effects of Melatonin on Streptozotocin-Induced Diabetes in Mice.**  
GÜNDÜZ B.  
The Sciences, vol.1, no.3, pp.117-120, 2001 (Peer-Reviewed Journal)
- XIII. **Hidroksil Temizleyici Bir Hormon Olarak; Melatonin**  
Gündüz B.  
Gülhane Tıp Dergisi, vol.41, no.2, pp.252-257, 1999 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Histology Lecture Notes**  
GÜNDÜZ B.  
Abant İzzet Baysal Üniversitesi Araştırma Ve Geliştirme Vakfı, Bolu, 2005

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

- I. **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
- II. **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
- III. **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

- IV. **St. John's Wort in male Syrian hamsters (*Mesocricetus auratus*) The effect of (*Hypericum perforatum* L.) extract on locomotor activity**  
Balkan E. İ., Kiral İ. C., Gündüz B.  
19. Ulusal Sinir Bilim Kongresi, Çanakkale, Turkey, 19 - 21 November 2021, pp.121
- V. **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
- VI. **Effects of Lavender (*Lavandula angustifolia*) Extract on the Reproductive System of (*Mesocricetus auratus*) in Male Syrian Hamsters**  
Balkan E. İ., Kiral İ. C., Şekerci E. Y., Gündüz B.  
46. Ulusal Fizyoloji Kongresi, İstanbul, Turkey, 8 - 10 October 2021, pp.88
- 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., Kiral İ. C., Gündüz B.  
46. Ulusal Fizyoloji Kongresi, İstanbul, Turkey, 8 - 10 October 2021, pp.87
- VIII. ***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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **Influence of *Helichrysum arenarium* on Hemocytes and Encapsulation-Melanization Immune Responses of Model Organism *Galleria mellonella***  
KAYA S., Akkuş G., Türkddoğan S., GÜNDÜZ B.  
Joint ESENIAS and DIAS Scientific Conferance and 9th ESENIAS Workshop, Ohrid, Macedonia, 3 - 06 September 2019, pp.63
- XV. **Effects of *Hypericum perforatum* extract on Greater Wax Moth (*Galleria mellonella*) Phenoloxidase activity**  
KAYA S., Idrizoglou G., Yerlikaya S. S., GÜNDÜZ B.  
1st INTERNATIONAL SYMPOSIUM ON BIODIVERSITY RESEARCH, Çanakkale, Turkey, 2 - 04 May 2019, pp.632
- XVI. **Effects of *Salvia officinalis* on Hemocytes Counts of *Galleria mellonella***  
Akkuş G., İnan P., KAYA S., GÜNDÜZ B.  
1st INTERNATIONAL SYMPOSIUM ON BIODIVERSITY RESEARCH, Çanakkale, Turkey, 2 - 04 May 2019, pp.633
- XVII. **Effects of olive leaf extract on *Galleria mellonella* Phenoloxidase activity**  
KAYA S., Çakaloğlu Ç., GÜNDÜZ B.  
1st INTERNATIONAL SYMPOSIUM ON BIODIVERSITY RESEARCH, ÇANAKKALE, TÜRKIYE, Çanakkale, Turkey, 2 - 04

May 2019, pp.631

- XVIII. **Effects of food restriction on estrous cycle and leptin hormone in mongolian gerbils (*Meriones unguiculatus*)**  
GÜLŞİN G., GÜNDÜZ B.  
20th European Congress of Endocrinology, 19 - 22 May 2018
- XIX. **Daily rhythm of leptin and pubertal development of Japanese quail (*Coturnix coturnix japonica*)**  
GÜLŞİN G., GÜNDÜZ B.  
VI. International Eurasian Ornithology Congress, 23 - 27 April 2018
- XX. **Photoperiod, As an Environmental Factor, Affects Food Intake and Body Weight in Syrian Hamsters (*Mesocricetus auratus*) and Mongolian Gerbils (*Meriones unguiculatus*)**  
GÜNDÜZ B., GÜLŞİN G.  
VIII. International Symposium on Ecology and Environmental Problems, 4 - 07 October 2017
- XXI. **Effects of Supplementary Diet and Diet Types on Physiology of Mother and Pups**  
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### **Supported Projects**

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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 Bildircinlarda Puberteye Giriş Zamanı Değişir mi?, 2010 - 2014

GÜNDÜZ B., HASANOĞLU N., Project Supported by Higher Education Institutions, Suprakiazmatik Nukleusu (SCN) Lezyon Yapılmış Moğolistan Gerbillerinde (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 Bildircinlarda (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: 168



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

Abant İzzet Baysal Üniversitesi