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Education Information

Doctorate, Selcuk University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), Turkey 2014 - 2020

Postgraduate, Selcuk University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Turkey 2011 - 2014

Dissertations

Doctorate, Diyabet oluşturulmuş yaşlı dişi sıçan modelinde resveratrol ve melatoninin kardiyak fonksiyonlar üzerine etkileri, Selcuk University, Sağlık Bilimleri Enstitüsü, Biyofizik (Dr), 2020

Postgraduate, Oleander'in izole sıçan kalp kası preparatı üzerine etkilerinin elektrofizyolojik yöntemlerle araştırılması, Selcuk University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014

Research Areas

Biophysics

Academic Titles / Tasks

Assistant Professor, Ondokuz Mayıs University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2022 - Continues

Research Assistant, Ondokuz Mayıs University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014 - 2022

Research Assistant, Selcuk University, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Melatonin protects retinal tissue damage in streptozotocin-induced aged rats**
Atacak A., Baltacı S. B., Akgün Ünal N., Mogulkoc R., Baltacı A. K.
Archives of Gerontology and Geriatrics, vol.112, 2023 (SCI-Expanded)
- II. **The effects of resveratrol and melatonin on biochemical and molecular parameters in diabetic old female rat hearts**
Akgün Ünal N., ÖZYILDIRIM S., Unal O., Gulbahce-Mutlu E., MOĞULKOÇ R., BALTACI A. K.
EXPERIMENTAL GERONTOLOGY, vol.172, 2023 (SCI-Expanded)
- III. **The Effects of Resveratrol and Melatonin on Cardiac Dysfunction in Diabetic Elderly Female Rats**
Akgün Ünal N., ÖZYILDIRIM S., Unal O., Baltacı S. B., Mogulkoc R., Baltacı A. K.
Physiological Research, vol.72, no.2, pp.187-198, 2023 (SCI-Expanded)

IV. **Protective effect of distilled Nerium oleander on heart of type 2 diabetic rats**

Ayaz M., Baba F., Akgun N., Bas A., Uney K., Dik B.

Bratislava Medical Journal, vol.116, no.7, pp.451-456, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effects of Exposure to Radiofrequency at 2.45 GHz on Structural Changes Associated with Lipid Peroxidation in Prepubertal Rat Testicular Tissue**
Karadayı A., Akgün Ünal N., Gülbağçe Mutlu E., Korunur Engiz B., Akkoca A., Varol S.
EUROPEAN JOURNAL OF THERAPEUTICS, vol.29, no.4, pp.846-855, 2023 (ESCI)
- II. **The effects of maternal zinc deficiency on myometrial contractility: an in vitro study**
AKGÜN ÜNAL N., TAŞTEPE F. S., GÜLBAĞÇE MUTLU E., BALTACI S. B., ÜNAL Ö.
KASTAMONU MEDICAL JOURNAL, vol.1, no.3, pp.71-74, 2021 (Peer-Reviewed Journal)
- III. **Selenium Controlled Diabetic Cardiomyopathy Complications**
AYAZ M., YANARDAĞ S. B., AKGÜN N.
Biomedical and Pharmacology Journal, vol.10, no.3, pp.1073-1079, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Regulatory Effect of Melatonin Supplement on Cardiac Contraction Parameters in Diabetic Aged Female Rat Model.**
AKGÜN ÜNAL N., ÜNAL Ö., BALTACI S. B., MOĞULKOÇ R., BALTACI A. K.
4th International Congress of Turkish Neuroendocrinology Society, İstanbul, Turkey, 26 - 28 November 2020, pp.80
- II. **Melatonin Inhibits Oxidative Stress in Heart Tissue in Aged Diabetic Female Rats**
AKGÜN ÜNAL N., ÜNAL Ö., BALTACI S. B., MOĞULKOÇ R., BALTACI A. K.
4th International Congress of Turkish Neuroendocrinology Society, İstanbul, Turkey, 26 November - 28 December 2020, pp.79
- III. **Melatonin Administration Increases on the Expression of GLUT 4 in Heart Tissue of Rats with Aged-Diabetic**
AKGÜN ÜNAL N., ÜNAL Ö., BALTACI S. B., MOĞULKOÇ R., BALTACI A. K.
4th International Congress of Turkish Neuroendocrinology Society, İstanbul, Turkey, 26 - 28 November 2020, pp.78-79
- IV. **Melatonin Administration Increases the Expression of Sirtuin-1 and PGC-1 α in Heart Tissue of Rats with Aged-Diabetic**
AKGÜN ÜNAL N., ÜNAL Ö., BALTACI S. B., MOĞULKOÇ R., BALTACI A. K.
4th International Congress of Turkish Neuroendocrinology Society, İstanbul, Turkey, 26 November - 28 December 2020, pp.78
- V. **Evaluation Of The Effect Of Chronic Jogging Exercise On Levels Of Thymus And Spleen Tissue ZIP 10 in Experimental Diabetes Mellitus Rat Models**
UĞURLU İ., BALTACI S. B., AKGÜN ÜNAL N., MENEVŞE E., MOĞULKOÇ R., BALTACI A. K.
17th International Sport Sciences Congress, Antalya, Turkey, 13 - 16 November 2019, pp.1258-1262
- VI. **Effect of Chronic Running Exercise in Experimental Diabetes Mellitus Rat Model on Lipid Peroxidation in the Hippocampus**
YAŞLI M., BALTACI S. B., AKGÜN ÜNAL N., GÜLBAĞÇE MUTLU E., MOĞULKOÇ R., BALTACI A. K.
17th International Sport Sciences Congress, Antalya, Turkey, 13 - 16 November 2019, pp.1263-1265
- VII. **The Effects of Resveratrol Supplementation on Bone Tissue SIRT1 levels in old Female Rats with Diabetic**
KIYAR K., ÜNAL Ö., BALTACI S. B., AKGÜN ÜNAL N., MOĞULKOÇ R., BALTACI A. K.
4th International Symposium on Innovative Approaches in Health and Sports

Sciences, Samsun, Turkey, 22 - 24 November 2019, vol.4, pp.24-25

VIII. The Effects of Melatonin Administration on Bone Tissue SIRT1 levels in old Female Rats with Diabetic

ÜNAL Ö., BALTACI S. B., AKGÜN ÜNAL N., MOĞULKOÇ R., BALTACI A. K.

4th International Symposium on Innovative Approaches in Health and Sports Sciences, Samsun, Turkey, 22 - 24 November 2019, vol.4, pp.20-21

IX. Protective Effect of Melatonin on Bone Tissue in Elderly Diabetic Female Rats

ÜNAL Ö., BALTACI S. B., AKGÜN ÜNAL N., MOĞULKOÇ R., BALTACI A. K.

4th International Symposium on Innovative Approaches in Health and Sports Sciences, Samsun, Turkey, 22 - 24 November 2019, vol.4, pp.22-23

X. The Effects Of Resveratrol Supplementation On Lens Tissue SIRT1 Levels In Old Female Rats With Diabetic

ATACAK A., AKGÜN ÜNAL N., BALTACI S. B., ÜNAL Ö., MOĞULKOÇ R., BALTACI A. K.

International Congress Of Science Culture And Education, Antalya, Turkey, 29 October - 02 November 2019, pp.40-42

XI. The Effects Of Melatonin Supplementation On Retinal SIRT1 Levels In Old Female Rats With Diabetic

ATACAK A., AKGÜN ÜNAL N., BALTACI S. B., ÜNAL Ö., MOĞULKOÇ R., BALTACI A. K.

International Congress Of Science Culture And Education, Antalya, Turkey, 29 October - 02 November 2019, pp.33-35

XII. The Effects Of Melatonin Supplementation On Lens Tissue SIRT1 Levels In Old Female Rats With Diabetic

ATACAK A., AKGÜN ÜNAL N., BALTACI S. B., ÜNAL Ö., MOĞULKOÇ R., BALTACI A. K.

International Congress Of Science Culture And Education, Antalya, Turkey, 29 October - 02 November 2019, pp.43-46

XIII. Nerium Oleander'in Liyofilize Sıvı Distilatının Tip 2 Deneysel Diyabetik Kardiyomiyopati Üzerine Etkiler

AYAZ M., AKGÜN ÜNAL N., BAŞ A. L.

24.Ulusal Biyofizik Kongresi, İstanbul, Turkey, 25 - 28 September 2012, pp.39

Supported Projects

Yontar O., Akgün Ünal N., Project Supported by Higher Education Institutions, Biyofizik Anabilim Dalı Eğitim Laboratuvarlarının Geliştirilmesi, 2020 - 2023

Akgün Ünal N., Project Supported by Higher Education Institutions, Diyabet Oluşturulmuş Yaşlı Dişi Sıçan Modelinde Resveratrol ve Melatoninin Kardiyak Fonksiyonlar Üzerine Etkileri (2016-ÖYP-091), 2014 - 2020

Scientific Refereeing

Open Veterinary Journal, Journal Indexed in ESCI, October 2023

EXPERIMENTAL GERONTOLOGY, SCI Journal, March 2023

Metrics

Publication: 23

Citation (WoS): 3

Citation (Scopus): 7

H-Index (WoS): 1

H-Index (Scopus): 2