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Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Zooloji Anabilim Dalı, Turkey 2009 - 2014

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Zooloji Anabilim Dalı, Turkey 2005 - 2009

Undergraduate, Istanbul University, Faculty Of Science, Department of Biology, Turkey 2001 - 2005

Certificates, Courses and Trainings

Vocational Training, Proteomistanbul, İstanbul Üniversitesi Fen Fakültesi Moleküler Biyoloji ve Genetik Bölümü ve İstanbul Üniversitesi Biyoteknoloji ve Genetik Mühendisliği Uygulama ve Araştırma Merkezi, 2010

Vocational Training, İleri Moleküler Hücre Biyolojisi Teknikleri Uygulamalı Eğitimi, TÜBİTAK Gebze Yerleşkesi Marmara Araştırma Merkezi Gen Mühendisliği ve Biyoteknoloji Enstitüsü Moleküler Hücre Biyolojisi, 2009

Vocational Training, Mikroskopi Teknikleri ve Uygulamaları Kursu, İstanbul Üniversitesi Fen Fakültesi Biyoloji Bölümü, 2008

Vocational Training, Deney Hayvanları Etik Kurulu Deney Hayvanlarının Biyolojik Araştırmalarda Kullanılması Kursu, İstanbul Üniversitesi Cerrahpaşa Tıp Fakültesi Deney Hayvanları Araştırma ve Uygulama Merkezi, 2006

Vocational Training, Konfokal Mikroskoba Giriş ve Uygulanması, İstanbul Teknik Üniversitesi, 2006

Dissertations

Doctorate, SIÇAN İNSÜLİNOMA BETA-HÜCRELERİNDE (INS-1) 4-METİLKATEKOL'ÜN ETKİLERİ , Istanbul University, Institute of Graduate Studies In Sciences, Zooloji Anabilim Dalı, 2014

Postgraduate, STZ-DİYABETİK FARELERE UYGULANAN KOMBİNE ANTİOKSİDANIN PANKREAS ÜZERİNE İMMUNOHİSTOKİMYASAL VE BİYOKİMYASAL ETKİLERİ, Istanbul University, Institute of Graduate Studies In Sciences, Zooloji Anabilim Dalı, 2009

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Biology, 2020 - Continues
Assistant Professor, Istanbul University, Faculty of Science, Department of Biology, 2018 - 2020
Assistant Professor, Istanbul University, Faculty of Science, Department of Biology, 2016 - 2018
Research Assistant PhD, Istanbul University, Faculty of Science, Department of Biology, 2014 - 2016
Research Assistant, Istanbul University, Faculty of Science, Department of Biology, 2006 - 2014

Courses

Hücre ve Moleküler Biyolojide Araştırmalar II, Undergraduate, 2020 - 2021
Biyoteknolojiye Giriş, Undergraduate, 2019 - 2020
Introduction to Toxicology, Undergraduate, 2019 - 2020
Nanobiyoteknoloji ve Tedavide Kullanımı, Postgraduate, 2019 - 2020
Moleküler ve Biyokimyasal Toksikoloji, Doctorate, 2019 - 2020
Hücre ve Moleküler Biyoloji Araştırmaları I, Undergraduate, 2020 - 2021
Adli Bilimlerde Biyoloji Uygulamaları, Undergraduate, 2019 - 2020
Moleküler Biyolojide Seçme Konular, Postgraduate, 2019 - 2020
Adli Bilimlerde Biyoloji Uygulamaları, Undergraduate, 2019 - 2020
Nanobiyoteknolojiye Giriş, Undergraduate, 2019 - 2020

Jury Memberships

Doctorate, Doctorate, Marmara Üniversitesi, July, 2023
Doctorate, Doctorate, İstanbul Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, March, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2020
Doctoral Examination, Doctoral Examination, İstanbul Kültür Üniversitesi, June, 2019
Doctoral Examination, Doctoral Examination, İstanbul Kültür Üniversitesi, June, 2019
Doctoral Examination, Doctoral Examination, İstanbul Kültür Üniversitesi, June, 2019
Post Graduate, Post Graduate, İstanbul Kültür Üniversitesi, May, 2019
Post Graduate, Post Graduate, İstanbul Kültür Üniversitesi, May, 2019
Post Graduate, Post Graduate, İstanbul Kültür Üniversitesi, May, 2019
Post Graduate, Post Graduate, İstanbul Kültür Üniversitesi, January, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2018

Designed Lessons

Karatuğ Kaçar A., Nanobiyoteknoloji ve Tedavide Kullanımı, Postgraduate, 2018 - 2019
Karatuğ Kaçar A., Toksikolojiye Giriş, Undergraduate, 2018 - 2019
Karatuğ Kaçar A., Nanobiyoteknolojiye Giriş, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- Characterization and comparison of insulinoma tumor model and pancreatic damage caused by the tumor, and identification of possible markers**
Karatuğ Kaçar A., Bulutay P., Aylar D., Celikten M., Bolkent Ş.

MOLECULAR BIOLOGY REPORTS, vol.51, no.1, 2024 (SCI-Expanded)

- II. **Glucotoxicity suppresses function of pancreatic beta and duct cells via miR-335-targeted Runx2 and insulin-mediated mechanism**
Oktayoglu S., Sancar S., Karatuğ Kaçar A., Bolkent Ş.
PROTOPLASMA, vol.1, no.1, pp.1-12, 2024 (SCI-Expanded)
- III. **The therapeutic effects of exosomes the first time isolated from pancreatic islet-derived progenitor cells in the treatment of pancreatic cancer**
Hasoglu I., KARATUĞ KAÇAR A.
PROTOPLASMA, vol.261, no.2, pp.281-291, 2024 (SCI-Expanded)
- IV. **Exploring dual effects of dinutuximab beta on cell death and proliferation of insulinoma**
KARATUĞ KAÇAR A.
CHEMICAL BIOLOGY & DRUG DESIGN, vol.103, no.1, 2024 (SCI-Expanded)
- V. **Studies on Treatment Within the Scope of Medical Biotechnology for Pancreatic Diseases**
Aylar D., Karatuğ Kaçar A.
Molecular Biotechnology, 2024 (SCI-Expanded)
- VI. **BuOH fraction of Salix Babylonica L. extract increases pancreatic beta-cell tumor death at lower doses without harming their function**
KARATUĞ KAÇAR A., Aylar D., Kazdal F., BAHADORI F.
TOXICOLOGY IN VITRO, vol.90, 2023 (SCI-Expanded)
- VII. **Epibrassinolide impaired colon tumor progression and induced autophagy in SCID mouse xenograft model via acting on cell cycle progression without affecting endoplasmic reticulum stress observed in vitro**
YERLİKAYA P. O., Adacan K., KARATUĞ KAÇAR A., ÇOKER GÜRKAN A., Arisan E. D.
INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol.155, 2023 (SCI-Expanded)
- VIII. **miR-375 induces adipogenesis through targeting Erk1 in pancreatic duct cells under the influence of sodium palmitate.**
Gezginci-Oktayoglu S., Sancar S., Karatug-Kacar A., Bolkent S.
Journal of cellular physiology, vol.236, pp.3881-3895, 2021 (SCI-Expanded)
- IX. **Investigation of cell death mechanism and activity of esculetin-loaded PLGA nanoparticles on insulinoma cells in vitro.**
Karatug Kacar A., Bahadori F., Tekkeli Ş. E., Topçu G., Bolkent S.
The Journal of pharmacy and pharmacology, vol.72, pp.592-606, 2020 (SCI-Expanded)
- X. **Indomethacin Decreases Insulin Secretion by Reducing KCa3.1 as a Biomarker of Pancreatic Tumor and Causes Apoptotic Cell Death**
Karatug Kaçar A.
Journal Of Biochemical And Molecular Toxicology, vol.34, no.7, pp.1-9, 2020 (SCI-Expanded)
- XI. **The effects of atorvastatin on the kidney injury in mice with pulmonary fibrosis.**
Karatug Kacar A., Yildirim M., Bolkent Ş., Oztay F.
The Journal of pharmacy and pharmacology, vol.71, pp.1301-1310, 2019 (SCI-Expanded)
- XII. **Vitronectin, fibronectin and epidermal growth factor induce proliferation via the JNK and ERK pathways in insulinoma INS-1 cells.**
Karatug Kacar A., Bolkent Ş.
Cytotechnology, vol.71, pp.209-217, 2019 (SCI-Expanded)
- XIII. **4-Methylcatechol stimulates apoptosis and reduces insulin secretion by decreasing betacellulin and inhibin beta-A in INS-1 beta-cells.**
Karatug Kacar A., Gezginci-Oktayoglu S., Bolkent Ş.
Human & experimental toxicology, vol.37, no.11, pp.1123-1130, 2018 (SCI-Expanded)
- XIV. **Involvement of dying beta cell originated messenger molecules in differentiation of pancreatic mesenchymal stem cells under glucotoxic and glucolipotoxic conditions.**
Gezginci-Oktayoglu S., Onay-Ucar E., Sancar-Bas S., Karatug-Kacar A., Arda E. Ş. N., Bolkent Ş.
Journal of cellular physiology, vol.233, no.5, pp.4235-4244, 2018 (SCI-Expanded)

- XV. **Necrotic cell death occur via JNK pathway with the activity of transcription factor c-Jun by 4-MC in INS-1 cell line.**
Karatug Kacar A., Bolkent Ş.
Journal of cellular biochemistry, vol.119, pp.2048-2060, 2018 (SCI-Expanded)
- XVI. **A matter of regeneration and repair: Caspases as the key molecules**
Bolkent Ş., Öztay F., Oktayoğlu S., Sancar Baş S., Karatug Kaçar A.
Turkish Journal Of Biology, vol.40, no.2, pp.333-352, 2016 (SCI-Expanded)
- XVII. **Carbon tetrachloride-induced kidney damage and protective effect of Amaranthus lividus L. in rats**
Yilmaz-Ozden T., Can A., Karatug A., Pala-Kara Z., Okyar A., Bolkent S.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.32, no.6, pp.1143-1152, 2016 (SCI-Expanded)
- XVIII. **A matter of regeneration and repair: Caspases as the key molecules**
Bolkent Ş., Öztay F., Oktayoğlu S., Sancar Baş S., Karatug A.
TURKISH JOURNAL OF BIOLOGY, vol.39, no.1, pp.1-20, 2015 (SCI-Expanded)
- XIX. **Nerve Growth Factor Neutralization Suppresses beta-Cell Proliferation Through Activin A and Betacellulin**
Gezginci-Oktayoglu S., Karatug A., Bolkent S.
PANCREAS, vol.44, no.2, pp.243-249, 2015 (SCI-Expanded)
- XX. **Regulation of oxidative stress and somatostatin, cholecystokinin, apelin gene expressions by ghrelin in stomach of newborn diabetic rats.**
Coskun Z. M., Sacan O., Karatug A., Turk N., Yanardag R., Bolkent S., Bolkent S.
Acta histochemica, vol.115, no.7, pp.740-7, 2013 (SCI-Expanded)
- XXI. **The potential role of combined antioxidant treatment on pancreas of STZ-diabetic mice**
Karatug A., Bolkent S.
EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, vol.65, pp.255-262, 2013 (SCI-Expanded)
- XXII. **Acute effects of methiocarb on oxidative damage and the protective effects of vitamin E and taurine in the liver and kidney of Wistar rats**
Ozden S., Catalgol B., Gezginci-Oktayoglu S., Karatug A., Bolkent S., Alpertunga B.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.29, no.1, pp.60-71, 2013 (SCI-Expanded)
- XXIII. **Alterations in kidney tissue following zinc supplementation to STZ-induced diabetic rats**
Karatug A., Kaptan E., Bolkent Ş., Mutlu O., Yanardag R.
Journal of Trace Elements in Medicine and Biology, vol.27, no.1, pp.52-57, 2013 (SCI-Expanded)
- XXIV. **The relation among NGF, EGF and insulin is important for triggering pancreatic beta cell apoptosis**
Gezginci-Oktayoglu S., Karatug A., Bolkent S.
DIABETES-METABOLISM RESEARCH AND REVIEWS, vol.28, no.8, pp.654-662, 2012 (SCI-Expanded)
- XXV. **Regulation of gene expression and biochemical changes in small intestine of newborn diabetic rats by exogenous ghrelin**
Karatug A., Sacan O., Coskun Z. M., Bolkent S., Yanardag R., Turk N., Bolkent S.
PEPTIDES, vol.33, no.1, pp.101-108, 2012 (SCI-Expanded)
- XXVI. **Exendin-4 improves hepatocyte injury by decreasing proliferation through blocking NGF/TrkA in diabetic mice**
Gezginci-Oktayoglu S., Sacan O., Yanardag R., Karatug A., Bolkent S.
PEPTIDES, vol.32, no.2, pp.223-231, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **The combined ameliorative effects of α -lipoic acid, selenium, and vitamin E on the livers of STZ-diabetic mice**
Karatug Kaçar A., Ertik O., Coşkun Yazıcı Z. M., Bolkent H. S., Yanardağ R., Bolkent Ş.
Istanbul Journal of Pharmacy, vol.53, no.2, pp.199-210, 2023 (Peer-Reviewed Journal)
- II. **The Reason for the Size Differences of the Isolated Exosomes and the Importance of these**

Differences

Hasoğlu I., Karatuğ Kaçar A.

International Journal of Diabetes & Metabolic Disorders, vol.8, no.2, pp.322-324, 2023 (Peer-Reviewed Journal)

- III. **Damage to Liver Tissue Caused by Valproic Acid Used for Treating Epilepsy: Protective Effects of Vitamin B6**
Türkyılmaz İ. B., Karatuğ Kaçar A., Bolkent S., Yanardag R.
Archives of epilepsy (Online), vol.29, no.1, pp.9-15, 2023 (Peer-Reviewed Journal)
- IV. **Dinutuximab beta-targeted therapy kills beta-cell tumors of the pancreas**
KARATUĞ KAÇAR A., ADIGÜZEL Z.
Holistic Integrative Oncology Springer Science and Business Media LLC, vol.2, pp.1-9, 2023 (Peer-Reviewed Journal)
- V. **The Effects of Ghrelin on Renal Complications in Newborn Diabetic Rats**
Karatuğ Kaçar A., Saçan Ö., Öziçli N., Bolkent Ş., Yanardağ R., Bolkent H. S.
European Journal of Biology, vol.79, no.1, pp.1-6, 2020 (Peer-Reviewed Journal)
- VI. **Effects of boric-acid-applied green tea on the expressions of heat shock proteins in MCF-7 cells**
Ersöz M., Karatug Kacar A., Sezekler I., Coskun Z. M.
CUKUROVA MEDICAL JOURNAL, vol.44, pp.66-71, 2019 (ESCI)
- VII. **The Effects of Camellia sinensis Extract on Proliferation, Apoptosis and Oxidative Stress in Insulinoma INS-1 Cells**
Karatuğ Kaçar A., Ersöz M., Sezekler I., Coskun Z. M.
Bezmialem Science, vol.7, no.2, pp.80-85, 2018 (Peer-Reviewed Journal)
- VIII. **Effects of taurine and vitamin E on lipid peroxidation, antioxidant system and histological changes in Wistar rat liver and kidney after short-term exposure of methiocarb.**
Özden S., BOLKENT Ş., GEZGİNCİ OKTAYOĞLU S., Arda Pirincci P., KARATUĞ A., ALPERTUNGA B.
Journal of Faculty of Pharmacy of Istanbul University, vol.42, no.2, pp.83-102, 2012 (Peer-Reviewed Journal)
- IX. **The effect of vitamin B6 on the liver of diabetic rats: A morphological and biochemical study**
Bolkent S., Karatug A., Sacan O., YANARDAĞ R.
IUFS JOURNAL OF BIOLOGY, vol.67, no.1, pp.1-7, 2008 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Proteomic Investigation Of The Effects Of Dinutuximab Beta In Insulinoma Ins-1 Cells.**
KARATUĞ KAÇAR A.
Uluslararası Biyokimya Kongresi 2023 // 34. Ulusal Biyokimya Kongresi, Muğla, Turkey, 29 October - 01 November 2023
- II. **Insulinoma INS-1 cells undergo both cell death and cell proliferation with Dinutuximab beta treatment under different conditions.**
Karatuğ Kaçar A.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.12
- III. **Administration of dinutuximab beta to insulinoma INS-1 cells under cytotoxic conditions causes cell dysfunction and increases insulin secretion by increasing Ca²⁺ levels and reducing K⁺ channel proteins.**
Karatuğ Kaçar A.
8th World Congress of Oxidative Stress, Calcium Signaling and TRP Channels, Isparta, Turkey, 5 - 08 September 2023, pp.2
- IV. **Dual-targeted and biocompatible nanoparticles loaded with esculetin and curcumin cause the death of pancreatic cancer cells**
Nurdogan A. N., Sak R., Ergin Kızılçay G., Bahadorı F., Karatuğ Kaçar A.
17th INTERNATIONAL NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023,

- V. **THE COMBINED EFFECTS OF α -LIPOIC ACID, VITAMIN E AND SELENIUM ON KIDNEY TISSUE OF STZ-DIABETIC MICE**
ERTİK O., KARATUĞ KAÇAR A., BOLKENT Ş., YANARDAĞ R.
7th ASIA PACIFIC International Modern Sciences Congress, Indonesia, 4 November - 05 December 2022
- VI. **Exosome isolation and characterization from PID-PC, INS-1, and MiaPaca-2 cells and investigation of the effect of isolated exosomes from PID-PC on pancreatic cancer**
Hasoğlu İ., Karatug Kaçar A.
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 November 2022
- VII. **Insulinoma tumor model formation and possible marker determination**
KARATUĞ KAÇAR A., BULUTAY P., Aylar D., Çelikten M., BOLKENT Ş.
BioTechBioChem 2021, 24 - 26 November 2021
- VIII. **The effects of targeted Dinutuximab beta monoclonal antibody on pancreatic beta cell toxicity**
KARATUĞ KAÇAR A., ADIGÜZEL Z.
3rd International Cancer and Ion Channels Congress (CANCERION-2021), 16 September 2021
- IX. **Different fractions of Salix babylonica L. leaf extract have different effects on insulin release in INS-1 cells**
Aylar D., Kazdal F., BAHADORI F., KARATUĞ KAÇAR A.
3rd International Cancer and Ion Channels Congress (CANCERION-2021), 16 September 2021
- X. **Glucotoxicity Causes Pancreatic Beta and Duct Cells to Mutually Suppress Each Other's Function via miR -335 Targeted Runx2 and Insulin-Mediated Mechanism**
Oktayoğlu S., Sancar S., Karatug Kaçar A., Bolkent Ş.
İstinye Üniversitesi Kök Hücre ve Doku Mühendisliği Sempozyumu, İstanbul, Turkey, 27 - 28 February 2021, pp.86-87
- XI. **ESCULETIN ENHANCES CASPASE-DEPENDENT APOPTOTIC CELL DEATH AND INSULIN SECRETION IN INS-1 CELLS**
Karatug Kaçar A.
Uluslararası Biyokimya Kongresi - 2018 / 29. Ulusal Biyokimya Kongresi, Muğla, Turkey, 26 - 30 October 2018, vol.43, pp.5
- XII. **Borik Asit Uygulanmış Yeşil Çayla Muamele Edilen MCF-7 Hücrelerinde HSP70 ve HSP90'ın Anlatımları Üzerine Bir Araştırma**
SEZEKLER I., ERSÖZ M., KARATUĞ KAÇAR A., COŞKUN Z. M.
Uluslararası Tarım, Çevre ve Sağlık Kongresi, Aydın, Turkey, 26 - 28 October 2018, pp.220
- XIII. **Alpha-Lipoic Acid Stimulates Insulin Secretion and Causes Necrotic Cell Death Via Oxidative Stress**
Karatug Kaçar A.
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Ankara, Turkey, 26 - 27 April 2018, pp.154
- XIV. **The Effects of Camellia Sinensis Extract on Proliferation, Apoptosis, Oxidative Stress in INS1 Cells**
Ersöz M., Karatug Kaçar A., Sezekler I., Coşkun Z. M.
International Biochemistry Congress - 2017 / 28 th National Biochemistry Congress, Erzurum, Turkey, 19 - 23 September 2017, pp.70
- XV. **THE INSULINOMA CELLS ARE DEATH AS DESTINATION WITH NANOPARTICULARS LOADED ESCULETIN**
KARATUĞ KAÇAR A., BAHADORİ F., KEPEKÇİ TEKKELİ Ş. E., TOPÇU G., BOLKENT Ş.
4th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE AND NANOTECHNOLOGY FOR NEXT GENERATION (MSNG2017), Sarajevo, Bosnia And Herzegovina, 28 - 30 June 2017, pp.125
- XVI. **4-METHYLCATECOL INDUCES NECROTIC CELL DEATH BY JNK PATHWAY IN INSULINOMA INS-1 CELLS**
Karatug Kaçar A., Bolkent Ş.
VI. INTERNATIONAL CONGRESS OF MOLECULAR MEDICINE, İstanbul, Turkey, 22 - 25 May 2017, pp.267

- XVII. **The effects of Atorvastatin on Renal Injury that occurs associated with Pulmonary Fibrosis**
KARATUĞ KAÇAR A., YILDIRIM M., BOLKENT Ş., Öztay F.
15th International Congress of Histochemistry and Cytochemistry, Antalya, Turkey, 18 - 21 May 2017, pp.451
- XVIII. **THERAPEUTIC ROLE OF α -LIPOIC ACID, VITAMIN E AND SELENIUM COMBINATION IN LIVER OF DIABETIC MICE**
KARATUĞ KAÇAR A., ERTİK O., COŞKUN Z. M., BOLKENT H. S., YANARDAĞ R., BOLKENT Ş.
3rd International Conference on New Trends in Chemistry, Finland, 28 - 30 April 2017
- XIX. **Therapeutic Role of alfa Lipoic Acid, Vitamin E and Selenium Combination in Liver of Diabetic Mice**
KARATUĞ KAÇAR A., ERTİK O., Çoşkun Z. M., BOLKENT H. S., YANARDAĞ R., BOLKENT Ş.
3 rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 - 30 April 2017, pp.78
- XX. **4 Metilkatekol Sıçan İnsülinoma hücrelerinde INS 1 hücre fonksiyon kaybına ve apoptotik hücre ölümüne neden olur**
Karatüğ Kaçar A., Bolkent Ş.
5. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Konya, Turkey, 18 - 21 July 2016, pp.8
- XXI. **Vitronectin, fibronectin and epidermal growth factor induces proliferation via JNK and ERK pathway in insulinoma INS-1 cells**
KARATUĞ KAÇAR A., BOLKENT Ş.
The EMBO Meeting 2015, Birmingham, United Kingdom, 5 - 08 September 2015, pp.105
- XXII. **Comparison of Efficacy and Toxicity of Lipid Based and Polymeric Nano Drug Delivery Systems**
Bahadori F., Dağ A., Tekkeli Ş. E., Topçu G., Karatüğ Kaçar A., Önyüksel H., Bolkent Ş.
4th Annual International Conference on Advances in Biotechnology, Dubai, United Arab Emirates, 10 - 11 March 2014, pp.97-100
- XXIII. **Influence of exogenous ghrelin on the kidney of newborn STZ-diabetic rats**
Bolkent S., Saçan Ö., Bolkent S., KARATUĞ A., Turk N., YANARDAĞ R.
World Diabetes Congress, Melbourne, Australia, 2 - 06 December 2013, pp.1
- XXIV. **The Role of Vitamin B6 on Liver Damage Induced with Valproic Acid**
Karatüğ Kaçar A., Türkyılmaz İ. B., Bolkent Ş., Yanardağ R.
The FEBS Journal, Sankt-Peterburg, Russia, 6 - 11 July 2013, pp.290
- XXV. **The relation between NGF and activin A is important for triggering pancreatic b cell apoptosis**
Oktayoğlu S., Karatüğ Kaçar A., Bolkent Ş.
The FEBS Journal, Sevilla, Spain, 4 - 09 September 2012, pp.145-146
- XXVI. **NGF regulates EGF NGF and insulin at the expression synthesis and secretion levels in beta cells of rats**
Bolkent Ş., Oktayoğlu S., Karatüğ Kaçar A.
The FEBS Journal, Sevilla, Spain, 4 - 09 September 2012, pp.164
- XXVII. **Betacellulin is increased in absence of Nerve Growth Factor**
Karatüğ Kaçar A., Oktayoğlu S., Bolkent Ş.
The FEBS Journal, Sevilla, Spain, 4 - 09 September 2012, pp.147
- XXVIII. **Chard (Beta vulgaris L. var. cicla) extract ameliorates oxidative status in the kidney tissue of streptozotocin-induced diabetic rats**
BOLKENT Ş., SAÇAN Ö., İpci Y., KARATUĞ A., Kabasakal L., Şener G., YANARDAĞ R.
The 2nd Euro-Mediterranean Conference Plant Natural Products: From Biodiversity to Bioindustry, Alexandria, Egypt, Egypt, 1 - 04 December 2011
- XXIX. **Cholecystokinin somatostatin and apelin in duodenum of newborn diabetic rats given ghrelin**
Karatüğ Kaçar A., Çoşkun Z. M., Bolkent Ş., Saçan Ö., Öziçli N., Yanardağ R., Bolkent H. S.
XII. National Medical Biology and Genetic Congress, Antalya, Turkey, 27 - 30 October 2011, pp.114
- XXX. **The effects of ghrelin on antioxidant enzymes and cholecystokinin somatostatin and apelin mRNAs in stomach**
Coşkun Z. M., Saçan Ö., Karatüğ Kaçar A., Bolkent Ş., Öziçli N., Yanardağ R., Bolkent H. S.
XII. National Medical Biology and Genetic Congress, Antalya, Turkey, 27 - 30 October 2011, pp.113-114
- XXXI. **What is The Antioxidant Role of Exogenous Ghrelin Administration in Small Intestine of Type 2**

Diabetic Rats

Bolkent H. S., Karatuğ Kaçar A., Saçan Ö., Coşkun Z. M., Öziçli N., Yanardağ R., Bolkent Ş.

III International Conference of Oxidative Stress, Habana, Cuba, 27 - 29 January 2011, pp.17

- XXXII. **Exendin 4 Has Antiproliferative Effect on Hepatocytes of Diabetic Mice**
Bolkent Ş., Oktayoğlu S., Karatuğ Kaçar A.
IMC 17 International Microscopy Congress, Rio-De-Janeiro, Brazil, 19 - 24 September 2010, pp.1
- XXXIII. **The Influence of Ghrelin Supplementation in Stomach of Neonatal Diabetic Rats A Biochemical and Immunohistochemical Study**
Bolkent H. S., Karatuğ Kaçar A., Saçan Ö., Coşkun Z. M., Öziçli N., Yanardağ R., Bolkent Ş.
IMC 17 International Microscopy Congress, Rio-De-Janeiro, Brazil, 19 - 24 September 2010, pp.1
- XXXIV. **Biochemical Effects of Triple Antioxidative Treatment on Cytosolic Antioxidant Enzymes and Lipid Peroxidation in Pancreas of the STZ Diabetic Mice**
Karatuğ Kaçar A., Bolkent Ş.
20. Ulusal Biyoloji Kongresi, Denizli, Turkey, 21 - 25 June 2010, pp.116-117
- XXXV. **The Protective Effects of Ghrelin on Stomach Tissue of Neonatal Diabetic Rats**
Saçan Ö., Öziçli N., Karatuğ Kaçar A., Bolkent Ş., Yanardağ R., Bolkent H. S.
Abstract Book of 3rd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels, Isparta, Turkey, 22 - 27 June 2010, pp.58
- XXXVI. **Immunohistochemical and Biochemical Effects on Pancreas of Combined Treatment with Antioxidant in STZ Diabetic Mice**
Bolkent Ş., Karatuğ Kaçar A.
19th International Congress of Nutrition, Bangkok, Thailand, 4 - 09 October 2009, pp.241
- XXXVII. **Alterations in kidney tissue following zinc supplementation to STZ-induced diabetic rats**
Karatuğ A., Kaptan E., Mutlu Ö., Bolkent Ş., YANARDAĞ R.
XIII. International Congress of Histochemistry and Cytochemistry, Poland, 1 - 04 August 2008, pp.10

Supported Projects

KAZANCI M., Güney Akkurt M., ÇAĞLAR S., KARATUĞ KAÇAR A., YERLİKAYA P. O., TUBİTAK Project, Bağ Dokularının (Ligament/Tendon) Onarımında Ve Sütur Uygulamalarda, Akdeniz Midyesi Bisuslarından Elde Edilen Protein Kopolimerlerin Doğal Özelliklerinin Korunarak Kullanımının Araştırılması, 2024 - 2026

KARATUĞ KAÇAR A., NURDOĞAN A. N., Project Supported by Higher Education Institutions, Çift Hedefli Biyoyumlu Nanopartiküllerin Pankreas Kanseri Üzerine Etkisi, 2022 - 2024

KARATUĞ KAÇAR A., Project Supported by Higher Education Institutions, Dinutuximab betanın İnsulinoma INS1 hücrelerine olan etkisinin proteom profillerinin incelenmesi, 2022 - 2024

Karatuğ Kaçar A., Aylar D., TUBİTAK Project, Pankreatik beta hücre tümöründe Salix babylonica L. Yaprak Ekstraktının hücre ölümü, insülin salınımı ve bazı ısı şok proteinleri ile ilişkilendirilmesi, 2021 - 2022

Karatuğ Kaçar A., Hasoğlu İ., Project Supported by Higher Education Institutions, PI-MSC'lerden izole edilen eksozomların pankreas kanseri üzerine etkisi, 2020 - 2022

KARATUĞ KAÇAR A., AYLAR D., Project Supported by Higher Education Institutions, Salix babylonica L Yaprak Ekstraktının İnsulinoma INS1 Hücrelerinde İnsülin Seviyeleri ve Oksidatif Stres Üzerine Etkisi, 2019 - 2021

Karatuğ Kaçar A., Project Supported by Higher Education Institutions, Pankreatik beta hücre (INS-1) toksisitesi üzerine hedefli Dinutuximab beta monoklonal antikörünün etkilerinin in vitro araştırılması, 2019 - 2021

KARATUĞ KAÇAR A., AYŞAN M. E., BOLKENT Ş., ÇELİKTEK M., Project Supported by Higher Education Institutions, INS1 hücre soyu ile sıçanlarda tümör modeli oluşturulması ve karakterizasyonu, 2018 - 2021

Karatuğ Kaçar A., Aylar D., TUBİTAK Project, Salix babylonica L. Yaprak Ekstraktının İnsulinoma INS-1 Hücre Fonksiyonu Üzerine Etkisi, 2019 - 2020

BOLKENT Ş., OKTAYOĞLU S., SANCAR BAŞ S., KARATUĞ KAÇAR A., Project Supported by Higher Education Institutions, İntrapancreatik Yağlanmada Kanal Hücrelerinin Rolünün İn Vitro Araştırılması, 2019 - 2020

BOLKENT Ş., KARATUĞ KAÇAR A., OKTAYOĞLU S., Project Supported by Higher Education Institutions, 4-

METİLKATEKOLÜN KANSER TEDAVİSİNDE KULLANIMI, 2016 - 2018

KARATUĞ KAÇAR A., TOPÇU G., BOLKENT Ş., BAHADORİ F., TEKKELİ Ş. E., Project Supported by Higher Education Institutions, THE INSULINOMA CELLS ARE DEATH AS DESTINATION WITH NANOPARTICULARS LOADED ESCULETIN, 2017 - 2017

BOLKENT Ş., KARATUĞ KAÇAR A., ERTİK O., YANARDAĞ R., BOLKENT H. S., COŞKUN Z. M., Project Supported by Higher Education Institutions, THERAPEUTIC ROLE OF LIPOIC ACID VITAMIN E AND SELENIUM COMBINATION IN LIVER OF DIABETIC MICE, 2017 - 2017

KARATUĞ KAÇAR A., BOLKENT Ş., Project Supported by Higher Education Institutions, İNSULİNOMA HÜCRELERİNİN ÖLÜMÜNÜ UYARMAK İÇİN ESCULETİN YÜKLÜ NANOPARTİKÜLLER İLE HEDEFE YÖNELİK TERAPİ, 2015 - 2017

KARATUĞ KAÇAR A., OKTAYOĞLU S., BOLKENT Ş., Project Supported by Higher Education Institutions, 4-Metilcatekol Sıçan İnsülinoma beta hücrelerinde (INS-1) hücre fonksiyon kaybına ve apoptotik hücre ölümüne neden olur, 2016 - 2016

BOLKENT Ş., KARATUĞ KAÇAR A., SANCAR BAŞ S., ARDA E. Ş. N., ÖNAY UÇAR E., Project Supported by Higher Education Institutions, GLUKOTOKSİSİTE, LİPOTOKSİSİTE VE GLUKOLİPOTOKSİSİTE DURUMLARINDA PANKREATİK KÖK HÜCRELER, ASINAR HÜCRELER VE PANKREATİK KANAL HÜCRELERİNİN BETA HÜCRELERİNE FARKLILAŞMA MEKANİZMALARININ ARAŞTIRILMASI, 2012 - 2016

KARATUĞ KAÇAR A., Project Supported by Higher Education Institutions, Vitronectin, fibronectin and epidermal growth factor induces proliferation via JNK and ERK pathway in insulinoma INS-1 cells, 2015 - 2015

Karatuğ Kaçar A., Bolkent Ş., Project Supported by Higher Education Institutions, 4 metilkatekol ün sıçan insülinoma beta hücrelerinin ölümü ile ilişkili bazı proteinlerin seviyeleri ve ekspresyonları üzerine etkileri, 2014 - 2015

Karatuğ Kaçar A., Bolkent Ş., Project Supported by Higher Education Institutions, Sıçan İnsülinoma β Hücrelerinde INS 1 4 Metilkatekol ün Etkileri, 2011 - 2014

Karatuğ Kaçar A., Bahadori F., Bolkent Ş., Topçu G., Tekkeli Ş. E., Önyüksel H., Project Supported by Other Official Institutions, Kemoterapötik Ajan Navelbine'in Yan Etkilerinin Azaltılması İçin Nano-Formülasyonlarının Hazırlanması, 2012 - 2013

Karatuğ Kaçar A., Oktayoğlu S., Bolkent Ş., Project Supported by Higher Education Institutions, Streptozotocin İle Oluşturulan Akut Hiperglisemi Modelinde Sinir Büyüme Faktörünün Beta Hücreleri Üzerine Etkileri, 2008 - 2012

Oktayoğlu S., Bolkent Ş., Karatuğ Kaçar A., Project Supported by Higher Education Institutions, Streptozotocin ile Oluşturulan Beta Hücre Hasarında Sinir Büyüme Faktörü ile Epidermal Büyüme Faktörü Betacellulin ve Activin A İlişkisinin Araştırılması, 2008 - 2012

Karatuğ Kaçar A., Bolkent H. S., Bolkent Ş., Yanardağ R., Saçan Ö., Coşkun Z. M., Project Supported by Higher Education Institutions, Yeni Doğan Diyabetik Sıçanlara Ghrelin Uygulanmasının Gastrointestinal Kanaldaki Apelin Somatostatin Kolesistokinin Gen Ekspresyonları Apoptoz Ve Antioksidan Sistem Üzerine Etkileri, 2007 - 2011

Karatuğ Kaçar A., Bolkent Ş., Project Supported by Higher Education Institutions, STZ Diyabetik Farelere Uygulanan Kombine Antioksidanın Pankreas Üzerine İmmunohistokimyasal ve Biyokimyasal Etkileri, 2006 - 2009

Patent

Oktayoğlu S., Bolkent Ş., Önay Uçar E., Sancar Baş S., Karatuğ Kaçar A., Arda E. Ş. N., BAZI PEPTİDLERİN DİYABET, OBEZİTE VE İLİŞKİLİ TÜM METABOLİK HASTALIKLARIN TANISINDA KULLANIMI (BAŞVURU), Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021 021580 , Standard Registration, 2022

Oktayoğlu S., Bolkent Ş., Önay Uçar E., Sancar Baş S., Karatuğ Kaçar A., Arda E. Ş. N., Use of Some Peptides in Diagnosis and Treatment of Diabetes, Obesity and Metabolic Diseases Associated Thereto (BAŞVURU), Patent, CHAPTER A Human Needs, The Invention Registration Number: EP3366306B1 , Standard Registration, 2021

Oktayoğlu S., Bolkent Ş., Önay Uçar E., Sancar Baş S., Karatuğ Kaçar A., Arda E. Ş. N., BETA HÜCRE OLUŞUMUNU SAĞLAMAK İÇİN BAZI PEPTİDLERİN KULLANIMI (BAŞVURU), Patent, CHAPTER A Human Needs, The Invention Registration Number: 2016 19391 , Standard Registration, 2021

Bolkent Ş., Oktayoğlu S., Önay Uçar E., Sancar Baş S., Karatuğ Kaçar A., Arda E. Ş. N., DİYABET, OBEZİTE VE İLİŞKİLİ TÜM METABOLİK HASTALIKLARIN TEDAVİSİNDE BAZI PEPTİDLERİN KULLANILMASI , Patent, CHAPTER A Human Needs, The Invention Recourse Number: 19394 , Standard Registration, 2016

Activities in Scientific Journals

IUFS Journal of Biology, Assistant Editor/Section Editor, 2016 - 2017

Memberships / Tasks in Scientific Organizations

Türk Biyokimya Derneği, Member, 2012 - Continues

European Microscopy Society, Member, 2008 - 2012

Türk Elektron Mikroskopi Derneği, Member, 2008 - 2012

International Federation of Societies for Histochemistry and Cytochemistry, Member, 2008 - 2012

International Federation of Societies of Microscopy, Member, 2008 - 2012

Scientific Refereeing

TURKISH JOURNAL OF BIOLOGY, Journal Indexed in SCI-E, September 2023

TUBITAK Project, 1002 - Quick Support Program, Turkey, August 2023

TUBITAK Project, 1002 - Quick Support Program, Turkey, June 2023

CELLULAR SIGNALLING, SCI Journal, March 2023

JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, SCI Journal, March 2023

TUBITAK Project, 1002 - Quick Support Program, Turkey, February 2023

Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, February 2023

SCIENTIFIC REPORTS, SCI Journal, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, November 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Turkey, September 2022

TURKISH JOURNAL OF BIOLOGY, National Scientific Refreed Journal, November 2020

PHYTOCHEMISTRY LETTERS, SCI Journal, February 2020

Therapeutic Advances in Endocrinology and Metabolism, SCI Journal, November 2019
PLOS ONE, SCI Journal, August 2019
Human and Experimental Toxicology, SCI Journal, August 2019
European Journal of Biology, National Scientific Refreed Journal, May 2019
Journal of Nanomaterials, SCI Journal, December 2018
European Journal of Biology, National Scientific Refreed Journal, July 2018
Chinese Journal of Cancer Research, SCI Journal, March 2017
Archives Of Physiology And Biochemistry , SCI Journal, January 2017
Human and Experimental Toxicology, SCI Journal, October 2016
Türk Biyoloji Dergisi, SCI Journal, April 2016
Chinese Journal of Cancer Research, SCI Journal, April 2016
Chinese Journal of Cancer Research, SCI Journal, September 2015
Tumor Biology , SCI Journal, September 2015
Drug Design, Development and Therapy, SCI Journal, April 2015
Tumor Biology , SCI Journal, February 2015
Chinese Journal of Cancer Research, SCI Journal, February 2015
Chinese Journal of Cancer Research, SCI Journal, October 2014
Molecular Biology Reports, SCI Journal, April 2014
Human and Experimental Toxicology, SCI Journal, November 2013
Molecular Biology Reports, SCI Journal, January 2013
Human & Experimental Toxicology, SCI Journal, November 2012

Metrics

Publication: 72
Citation (WoS): 171
Citation (Scopus): 180
H-Index (WoS): 8
H-Index (Scopus): 8

Congress and Symposium Activities

2nd Meeting on Nanotechnology and Tissue Engineering: Current Challenges and Future Prospects, Attendee, Istanbul, Turkey, 2014
Beta Cells in Health and Disease, Attendee, Kocaeli, Turkey, 2014
İyon Kanalları ve Kanser, Attendee, İstanbul, Turkey, 2014
Nanoteknoloji ve Doku Mühendisliği: Güncel Sorunlar ve Gelecek Öngörülleri, Attendee, İstanbul, Turkey, 2013
Programlı Hücre Ölümü: Güncel Yaklaşımlar, Attendee, İstanbul, Turkey, 2011
Cell Culture Seminar, Attendee, İstanbul, Turkey, 2010
Mikroskopi Teknikleri ve Uygulamaları, Attendee, İstanbul, Turkey, 2008
Programlı Hücre Ölümü Sempozyumu, Attendee, İstanbul, Turkey, 2008
EMBO Young Scientists Forum, Attendee, İstanbul, Turkey, 2008
18. Ulusal Elektron Mikroskopi Kongresi, Attendee, Eskişehir, Turkey, 2007

Scholarships

FEBS Kongre Bursu, Other International Organizations, 2013 - 2013
FEBS Kongre Bursu, Other International Organizations, 2012 - 2012

Awards

Karatuđ Kaçar A., Poster Presentation / Administration of dinutuximab beta to insulinoma INS-1 cells under cytotoxic conditions causes cell dysfunction and increases insulin secretion by increasing Ca²⁺ levels and reducing K⁺ channel proteins., 8Th World Congress Of Oxidative Stress, Calcium Signaling And Trp Channels, September 2023

Karatuđ Kaçar A., Bilimsel Yayın Teřvik Ödülü, Tübitak, January 2019

Bahadori F., Dađ A., Tekkeli ř. E., Topçu G., Karatuđ Kaçar A., Önyüksel H., Bolkent ř., Oral Presentation / Comparison of Efficacy and Toxicity of Lipid Based and Polymeric Nano Drug Delivery Systems, 4Th Annual International Conference On Advances In Biotechnology, March 2014

Non Academic Experience

İSTANBUL YEDİKULE GÖĐÜS HASTALIKLARI VE GÖĐÜS CERRAHİSİ EĐİTİM VE ARAřTIRMA HASTANESİ