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LECT. PHD

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Publons / Web Of Science ResearcherID: P-8923-2016

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Education

Doctorate
2015 - 2022

Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Moleküler Biyoloji ve Genetik, Turkey

Postgraduate
2012 - 2015

Ege University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey

Undergraduate
2007 - 2012

Ege University, Faculty Of Science, Biyoloji Bölümü Moleküler Biyoloji Opsiyonu, Turkey

Dissertations

Doctorate, Farklı kınkanathı (Insecta: Coleoptera) üyelerinde defensin geninin gen anatomisinin belirlenmesi, evrimsel öyküsünün çıkarımı ve gen ürünlerinin antimikrobiyal aktivitelerinin sınanması, 2022

Academic Titles / Tasks

Lecturer PhD
2016 - Continues

Supported Projects

- Elaldı N., Pektaş A. N., Bağcı B., FP1 Project, CCHFVACIM, Crimean Congo Haemorrhagic Fever Vaccine & Immunotherapy, 2024 - 2028
- Elaldı N., Bağcı B., Pektaş A. N., FP5 Project, PREPARE-TID, Pipeline for Rapid Diagnostics of Emergency Transboundary Infectious Diseases / Sınır Ötesi Acil Enfeksiyon Hastalıklarının Hızlı Tanısı İçin Altyapı Geliştirilmesi, 2024 - 2028

3. Elaldı N., Erciyas Yavuz K., Bağcı B., Özsemir A. C., Pektaş A. N., Vatansever Z., Other International Funding Programs, US-UK collaborative proposal: modelling reassortment at the cellular, clinical, and phylogenetic level in emerging Bunyaviruses, 2021 - 2026
4. Elaldı N., Pektaş A. N., Bağcı B., Taşseten T. N., Other International Funding Programs, : U01 AI151758-01 NIH/NIAID, LOCHUM, Güneydoğu Asya ve Batı/Orta Afrika'da pandemi potansiyeli olan virüslerin bulaşma, adaptasyon ve patogenezi ile ilişkili bölgelerarası çalışma / Inter-regional study of transmission, adaptation and pathogenesis of viruses with pandemic potential in Southeast Asia and West/Central Africa, Hibe Kimliği (Paris Pastör Enstitüsü, Fransa), Proje başlangıç ve bitiş: 2021-2025. Rol: Subkontraktör. Fon sahibi: National Institute of Health (NIH), USA., 2021 - 2025
5. Elaldı N., Demirci B., Bağcı B., Öziç C., Vatansever Z., Bedir Uygun H., Newton Programme Project, Epidemiological Analysis of CCHFv Strains in Turkey and Assessment of the Utility of Non-invasive Samples to Diagnostics, 2020 - 2024
6. Elaldı N., Bağcı B., Pektaş A. N., H2020 Project, VHFMoDRAD:Viral Haemorrhagic Fever: Modern Approaches for developing bedside Rapid Diagnostics, 2019 - 2024
7. Pektaş A. N., Çetin İ., Bağcı B., Araslı M., Elaldı N., Hewson R., Mirazımlı A., Neogi U., Appelberg S., Krishnan S., Project Supported by Higher Education Institutions, Kırım-Kongo Kanamalı Ateşi'nde ardışık kan lenfosit alt-grupları ve serum interferon, Th1 sitokinleri ile IL-10 düzeylerinin hastalık prognozuna etkisinin araştırılması Investigation of the sequential blood lymphocyte sub-groups, serum levels of interferons, Th1 cytokines and IL-10 on the progression of Crimean-Congo Hemorrhagic Fever, 2020 - 2022
8. Korkmaz E. M., Pektaş A. N., Project Supported by Higher Education Institutions, Farklı Kınkanathılar (Insecta: Coleoptera) Üyelerinde Defensin Geninin Gen Anatomisinin Belirlenmesi, Evrimsel Öyküsünün Çıkarımı ve Gen Ürünlerinin Antimikrobiyal Aktivitelerinin Sınanması, 2017 - 2022

Awards

1. Bağcı G., Gündoğdu O., Pektaş A. N., Bağcı B., Avcı O., Gürsoy S., Kaygusuz K., Elaldı N., Poster Bildiri İkincilik Ödülü, Türk Biyokimya Derneği, April 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Novel antimicrobial defensin peptides from different coleopteran insects (Coleoptera: Insecta): identification, characterisation and antimicrobial properties.**
Pektaş A. N., Korkmaz E. M.
Journal of Asian natural products research, pp.1-15, 2025 (SCI-Expanded)
2. **Evaluation and normalization of a set of reliable reference genes for quantitative sgk-1 gene expression analysis in Caenorhabditis elegans-focused cancer research**
Özdemir Ö. Ü., Yurt K., PEKTAŞ A. N., BERK Ş.
Nucleosides, Nucleotides and Nucleic Acids, vol.44, no.2, pp.91-110, 2025 (SCI-Expanded)
3. **Development and evaluation of an antigen targeting lateral flow test for Crimean-Congo Haemorrhagic Fever**
Thompson C. R., Bozkurt I., Cosgun Y., Blundell P., Duvoix A., Johnson M., Hedef H., Arslan F. G., Umudum B. A., Bilek H. C., et al.
eBioMedicine, vol.110, 2024 (SCI-Expanded)
4. **Development of targeted whole genome sequencing approaches for Crimean-Congo haemorrhagic fever virus (CCHFV).**
D'Addiego J., Shah S., Pektaş A. N., Bağcı B. N. K., Öz M., Sebastianelli S., Elaldı N., Allen D. J., Hewson R.
Virus research, vol.350, pp.199464, 2024 (SCI-Expanded)
5. **The combination of metformin and high glucose increased longevity of Caenorhabditis elegans a DAF-16/FOXO-independent manner: cancer/diabetic model via C. elegans**

- Berk Ş., Cetin A., Özdemir Ö. Ü., Pektaş A. N., Yurtcu N., Durna Daştan S.
Frontiers in Endocrinology, vol.15, 2024 (SCI-Expanded)
6. **Systems-level temporal immune-metabolic profile in Crimean-Congo hemorrhagic fever virus infection**
Ambikan A. T., ELALDI N., Svensson-Akusjärvi S., BAĞCI B., PEKTAŞ A. N., Hewson R., Bagci G., Arasli M., Appelberg S., Mardinoglu A., et al.
Proceedings of the National Academy of Sciences of the United States of America, vol.120, no.37, 2023 (SCI-Expanded)
 7. **Investigating the effect of ribavirin treatment on genetic mutations in Crimean-Congo haemorrhagic fever virus (CCHFV) through next-generation sequencing.**
D'addiego J., Elaldi N., Wand N., Osman K., Bagci B., Kennedy E., Pektaş A. N., Hart E., Slack G., Hewson R.
Journal of medical virology, vol.95, no.2, 2023 (SCI-Expanded)
 8. **The investigation of host genetic variants of toll-like receptor 7 and 8 in COVID-19**
Bagci G., Gundogdu O., Pektaş A. N., Bagci B., Avci O., Gursoy S., Kaygusuz K., Elaldi N.
Nucleosides, Nucleotides and Nucleic Acids, vol.42, no.8, pp.586-602, 2023 (SCI-Expanded)
 9. **METHYLATION OF THE E-CADHERIN (ECAD) GENE IN CLEAR CELL RENAL CELL CARCINOMA (CCRCC)**
Kitapci A., Daştan T., DüNDAR G., Pektaş A. N., Durna Daştan S., Korğalı E., Türkoğlu Ş.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.29, pp.85-91, 2020 (SCI-Expanded)

Articles Published in Other Journals

1. **Investigation of The Prevalence of Tick-Borne Encephalitis Virus Antibodies In Patients With Preliminary Diagnosis of Crimean-Congo Hemorrhagic Fever**
Öz M., Çakır Kıymaz Y., Öksüz C., Bağcı B., Pektaş A. N., Turan T., Buyuktuna S. A., Elaldı N.
Cumhuriyet Tıp Dergisi (ELEKTRONİK), vol.47, no.1, pp.22-25, 2025 (Peer-Reviewed Journal)
2. **Visualization of scientific production in Caenorhabditis elegans: a bibliometric analysis (1980–2023)**
BERK Ş., ÖZDEMİR S., PEKTAŞ A. N.
Genomics and Informatics, vol.22, no.3, 2024 (Scopus)
3. **DNA Barcoding of Commercial Cockroaches in Turkey**
BERK Ş., PEKTAŞ A. N.
CUMHURİYET SCIENCE JOURNAL, vol.44, no.1, pp.28-35, 2023 (Peer-Reviewed Journal)
4. **Identification and Validation of Reference Genes for RT-qPCR Normalization in Nauphoeta cinerea (Olivier, 1789) (Blattodea, Blaberidae)**
Özcan K., Pektaş A. N., Berk Ş.
Bilge International Journal of Science and Technology Research, vol.6, no.1, pp.62-72, 2022 (Peer-Reviewed Journal)
5. **Selection and Validation of Potential Reference Genes for Quantitative Real-Time PCR Analysis in Blaptica Dubia (Serville, 1838) (Blattidae, Blaberidae)**
KARAKAŞ E. U., PEKTAŞ A. N., BERK Ş.
CUMHURİYET SCIENCE JOURNAL, vol.43, no.2, pp.176-182, 2022 (Peer-Reviewed Journal)
6. **Selection and Validation of Reference Genes for Quantitative Real-time PCR in the Mealworm Beetle, Tenebrio molitor L. (Coleoptera: Tenebrionidae)**
Berk Ş., Pektaş A. N.
IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS) (2020), vol.13, pp.44-50, 2020 (Peer-Reviewed Journal)

Books

- 1. Adipokinlerin Obezite İle İlişkili İnflamatuar Mekanizmalar Üzerindeki Etkileri**
BAĞCI B., PEKTAŞ A. N.
in: Moleküler Biyoloji ve Genetik Alanında Güncel Yaklaşımlar, ŞENGÜL DEMİRRAK MERYEM ŞENAY, Editor, Bidge Yayınları, İstanbul, pp.173-207, 2024
- 2. IN SILICO ANALYSIS OF BIOACTIVE PEPTIDES**
Pektaş A. N., Berk Ş.
in: Academic Research and Reviews in the Field of Science and Mathematics, Prof. Dr. Hüsniye Sağlıkler, Editor, Platanus Publishing, Ankara, pp.558-571, 2023
- 3. EPIGENETICS AND CANCER**
Berk Ş., Pektaş A. N.
in: Academic Research and Reviews in the Field of Science and Mathematics, Prof. Dr. Hüsniye Sağlıkler, Editor, Platanus Publishing, Ankara, pp.572-585, 2023
- 4. DNA Nanoteknoloji Biyosensörleri**
PEKTAŞ A. N.
in: Moleküler Biyoloji ve Genetik Biliminde Güncel Tartışmalar, Assist. Prof. Dr. Metin ERTAŞ, Editor, BİDGE Yayınları, Ankara, pp.4-38, 2023
- 5. RNAi Terapötikleri: Viral Hastalıklar ve Kanser**
PEKTAŞ A. N.
in: Moleküler Biyoloji ve Genetik Biliminde Güncel Tartışmalar, Assist. Prof. Dr. Metin ERTAŞ, Editor, BİDGE Yayınları, Ankara, pp.38-64, 2023
- 6. MOLEKÜLER TÜR TANIMLAMASINDA BİR ARAÇ OLARAK DNA BARKODLAMA**
PEKTAŞ A. N., BERK Ş.
in: BİYOLOJİ ALANINDA TEORİK VE UYGULAMALI AKADEMİK ÇALIŞMALAR, Prof. Dr. Şifa TÜRKÖĞLU, Editor, İksad Yayınevi, Ankara, pp.233-261, 2022
- 7. ARBOVİROLOJİYE GENEL BİR BAKIŞ**
PEKTAŞ A. N.
in: Fen ve Matematik Bilimlerinde Güncel Araştırmalar, FİLİK İŞÇEN Cansu, Editor, Livre de Lyon, Lyon, pp.115-132, 2022
- 8. TRANSCRIPTOME AND METABOLOME ANALYSIS IN CAENORH ABDITIS ELEGANS MODEL ORGANISM**
Berk Ş., Pektaş A. N.
in: International Research in Science and Mathematics, Filiz ÖZBAŞGERÇEKER, Hasan AKGÜL, Hayri BABA, Editor, SERÜVEN YAYINEVİ, İzmir, pp.131-144, 2022
- 9. OMURGASIZ ANTİMİKROBİYAL PEPTİDLERİ: POTANSİYEL TERAPÖTİK UYGULAMALAR**
PEKTAŞ A. N.
in: TEMEL TIP BİLİMLERİNDE GÜNCEL ÇALIŞMALAR III, Uzm. Dr. Kübra İRDAY, Editor, İksad Yayınevi, Ankara, pp.149-180, 2022

Papers Published in Refereed Scientific Meetings

- 1. VACCINE DESIGN WITH REVERSE VACCINATION AND IN SILICO MODELLING**
PEKTAŞ A. N.
1. INTERNATIONAL MARDİN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Mardin, Turkey, 23 - 25 December 2024
- 2. BIOSENSORS: PRINCIPLES AND APPLICATIONS**
PEKTAŞ A. N.
1. INTERNATIONAL MARDİN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Mardin, Turkey, 23 - 25 December 2024
- 3. PEPTIDE SYNTHESIS AND PURIFICATION TECHNOLOGIES**
PEKTAŞ A. N.

4. BİLSEL INTERNATIONAL SUR SCIENTIFIC RESEARCHES CONGRESS", Diyarbakır, Turkey, 21 - 22 December 2024
4. **DERİN MUTASYON TARAMASI VE MAKİNE ÖĞRENİMİ**
PEKTAŞ A. N.
6. BİLSEL INTERNATIONAL WORLD SCIENCE AND RESEARCH CONGRESS, İstanbul, Turkey, 28 - 29 December 2024
5. **ANTİMİKROBİYAL PEPTİD ARAŞTIRMALARINDA İN SİLİKO ANALİZLER**
PEKTAŞ A. N.
6. BİLSEL INTERNATIONAL WORLD SCIENTIFIC AND RESEARCH CONGRESS, İstanbul, Turkey, 28 - 29 December 2024
6. **THE IMPORTANCE OF CANCER META INDICATORS ON AGING**
Emlik N. N., PEKTAŞ A. N.
5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Ankara, Turkey, 26 - 28 June 2024
7. **MICROBIOLOGICAL AND MOLECULAR ANALYSIS OF WATER WELLS AND YILDIZ RIVER**
PEKTAŞ A. N., ŞİMŞİR M.
5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), 26 - 28 June 2024
8. **GENETIC EROSION AND CONSERVATION GENETICS**
PEKTAŞ A. N.
V. INTERNATIONAL CONFERENCE ON GLOBAL PRACTICE OF MULTIDISCIPLINARY SCIENTIFIC STUDIES, Baku, Azerbaijan, 10 - 12 December 2023
9. **BIODIVERSITY PROBLEM AND GENETIC DIVERSITY OF AGRICULTURAL PRODUCTS**
PEKTAŞ A. N.
V. INTERNATIONAL CONFERENCE ON GLOBAL PRACTICE OF MULTIDISCIPLINARY SCIENTIFIC STUDIES, Baku, Azerbaijan, 10 - 12 December 2023
10. **SINGLE-CELL MASS CYTOMETRY AND TRANSCRIPTOME PROFILING**
PEKTAŞ A. N.
4. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Adana, Turkey, 9 - 10 December 2023
11. **MULTIOMICS: HUMAN DISEASES AND MACHINE LEARNING**
PEKTAŞ A. N.
4. INTERNATIONAL MEDITERRANEAN SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Adana, Turkey, 10 - 12 December 2023
12. **COMPARISON OF DNA SEQUENCING TECHNOLOGIES IN CLINICAL SAMPLES: NEXT-GENERATION AND THIRD-GENERATION SEQUENCING**
PEKTAŞ A. N.
INTERNATIONAL EUROASIA Congress on Scientific Researches and Recent Trends XII, Ankara, Turkey, 29 - 30 November 2023
13. **IN SILICO ACTIVITY PREDICTION: ADME-TOX ASSESSMENT AND MOLECULAR DYNAMICS**
PEKTAŞ A. N.
INTERNATIONAL EUROASIA Congress on Scientific Researches and Recent Trends XII, Ankara, Turkey, 29 - 30 November 2023
14. **COMPARISON OF THE CEPHEID OPENACCESS FLEX04 CARTRIDGE WITH COMMERCIAL ASSAYS DURING SEASONAL EPIDEMIC IN SIVAS, TURKEY**
Abdurahman S., Combe P., Elaldi N., Bağcı B., Pektaş A. N., Thirion L., Bombarde B., Planchon P., Mirazimi A.
3rd International Conference on Crimean-Congo Hemorrhagic Fever, Thessaloniki, Greece, 19 - 21 September 2023, pp.1-53
15. **TOOLS AND GEARS FOR METABOLOMICS ANALYSIS**
PEKTAŞ A. N.
I. INTERNATIONAL PARIS CONGRESS ON APPLIED SCIENCES, Paris, France, 1 - 03 April 2023
16. **APPLICATIONS OF CHROMATOGRAPHY: METABONOMY AND METABOLOMICS**

PEKTAŞ A. N.

3RD INTERNATIONAL ANATOLIAN CONGRESS ON SCIENTIFIC RESEARCH, Kayseri, Turkey, 27 - 29 December 2022, vol.1, pp.876-882

17. **RACE PCR UYGULAMALARINDA MODİFİKASYONLAR**

PEKTAŞ A. N.

7th ASIA PACIFIC International Modern Sciences Congress, Jakarta, Indonesia, 4 - 05 November 2022, vol.1, pp.464-470

18. **QUALIFICATION OF GPC/GFC/SEC ANALYSIS IN BIOLOGICAL SYSTEMS**

PEKTAŞ A. N.

CUKUROVA 9TH INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE, Adana, Turkey, 9 - 11 October 2022, vol.1, pp.377-385

19. **LASER DIFFRACTION PARTICLE SIZE DISTRIBUTION ANALYSIS IN MATERIALS AND ENVIRONMENTAL SCIENCES**

PEKTAŞ A. N.

INTERNATIONAL CONFERENCE ON CHEMICAL AND BIOLOGICAL SCIENCES, Katsina, Nigeria, 20 - 21 September 2022, vol.1, pp.60-67

20. **POTENTIAL THERAPEUTIC EFFECTS OF ANTIMICROBIAL DEFENSIN PEPTIDES**

PEKTAŞ A. N.

II-International Conference on Global Practice of Multidisciplinary Scientific Studies, Batumi, Georgia, 26 - 28 July 2022, vol.1, pp.1012-1023

21. **DNA BARCODES FOR INSECTS**

PEKTAŞ A. N.

INTERNATIONAL CAPITAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, Lizbon, Portugal, 13 - 14 July 2022, vol.1, pp.409-414

22. **ANTİMİKROBİYAL METABOLİTLERİN TERAPÖTİK KAYNAĞI OLARAK BÖCEKLER VE BÖCEK PATOJENLERİ**

PEKTAŞ A. N.

2. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 17 - 19 June 2022, vol.1, pp.387-398

23. **Evaluation of Minimally Invasive Clinical Samples for Molecular Diagnosis of Crimean-Congo Hemorrhagic Fever: An Advantage for Dried Blood Spots**

Elaldı N., Wand ., Pektaş A. N., Bağcı B., D'Addiego J., Slack G., Çömez A., İnce A. T., Öz M., Hewson .

10. Türkiye EKMUD Bilimsel Kongresi, Antalya, Turkey, 25 - 29 May 2022, pp.83-84

24. **TOLL-BENZERİ RESEPTÖR 7 ve 8 POLİMORFİZMLERİNİN COVID-19 ŞİDDETİ İLE İLİŞKİSİ**

Bağcı G., Gündoğdu O., Pektaş A. N., Bağcı B., Avcı O., Gürsoy S., Kaygusuz K., Elaldı N.

7. Türkiye in vitro Diyagnostik (IVD) Sempozyumu, İzmir, Turkey, 27 - 29 April 2022, pp.1

25. **The Activities of Carbonic Anhydrase and Acetylcholinesterase Enzymes in Different Tissues Related to Respiratory, Excretory and Reproductive Systems of Rats Under The Wireless Electromagnetic Fields Exposure**

PEKTAŞ A. N., KOÇYİĞİT Ü. M., DAŞTAN T., DURNA DAŞTAN S., taslimi p., GÜRSES F., GÜLÇİN İ.

International Conference on Science and Technology ICONST 2018, Prizren, Serbia, 5 - 09 September 2018

26. **Hypermethylation of E-Cadherin (ECAD) Gene in Clear Cell Renal Cell Carcinoma (CCRCC)**

PEKTAŞ A. N., DAŞTAN T., KİTAPÇI A., DURNA DAŞTAN S., TÜRKOĞLU Ş.

International Conference on Science and Technology ICONST 2018, Prizren, Serbia, 5 - 09 September 2018

27. **Hypermethylation of Death-associated Protein Kinase (DAPK) Gene in Clear Cell Renal Cell Carcinoma (CCRCC)**

DAŞTAN T., KİTAPÇI A., PEKTAŞ A. N., DÜNDAR G., DURNA DAŞTAN S., TÜRKOĞLU Ş.

IV. International Academic Research Congress, Antalya, Turkey, 30 October - 03 November 2018

28. **Isolation and molecular identification of some cyanobacteria from freshwater sites in Tokat province**

DAŞTAN T., PEKTAŞ A. N., KARAN T., DURNA DAŞTAN S., BARAL İ., ERENLER R., ATEŞŞAHİN D.

II. International Academic Research Congress, 18 - 21 October 2017

29. **Sivas İli Plantago major ve Plantago lanceolata Bitki Yapraklarının In Vitro Antikanser Aktivitelerinin Değerlendirilmesi**
DAŞTAN T., PEKTAŞ A. N., DURNA DAŞTAN S., ÇETİNKAYA S., ATEŞŞAHİN D., KARAN T., BARAL İ.
II. International Academic Research Congress, 18 - 21 October 2017

Peer Reviews in Scientific Publications

Biyolojik Çeşitlilik ve Koruma, National Scientific Refreed Journal, February 2024
BIO-PROTOCOL, National Scientific Refreed Journal, May 2023
SOUTH AFRICAN JOURNAL OF BOTANY, SCI Journal, April 2023
Journal of Physical Chemistry and Functional Materials, National Scientific Refreed Journal, July 2022
Biyolojik Çeşitlilik ve Koruma, National Scientific Refreed Journal, November 2021
CUMHURİYET SCIENCE JOURNAL, National Scientific Refreed Journal, November 2020

Metrics

Publication: 53
Citation (WoS): 16
Citation (Scopus): 19
H-Index (WoS): 3
H-Index (Scopus): 3

Research Areas

Biochemistry, Bioinformatics, Biotechnology, Animal Biology, Microbiology, Virology, Molecular Biology and Genetics, Genomics, Health Sciences, Natural Sciences