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International Researcher IDs

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Publons / Web Of Science ResearcherID: D-3218-2013

ScopusID: 56569492900

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Education Information

Doctorate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Analitik Kimya Anabilim Dalı, Turkey 2003 - 2008

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Analitik Kimya Anabilim Dalı, Turkey 1999 - 2003

Undergraduate, Hacettepe University, Eczacılık Fakültesi, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Basic Pharmaceutics Sciences, Health Sciences, Pharmacology and Therapeutics, Analytical Chemistry

Academic Titles / Tasks

Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2020 - Continues

Associate Professor, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2013 - 2020

Research Assistant, Hacettepe University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 1999 - 2013

Courses

Doctorate

EAK742 KOMBINE ANALİTİK YÖNTEMLER, Doctorate, 2017 - 2018

EAK740 OMIKS ANALİZLER İÇİN ANALİTİK TEKNİKLER, Doctorate, 2017 - 2018

ECF 132 ANALİTİK KİMYA 1, Doctorate, 2016 - 2017

EAK799 DOKTORA YETERLİLİK SINAVINA HAZIRLIK, Doctorate, 2016 - 2017

ECF134 ANALİTİK KİMYA I LABORATUVARI, Doctorate, 2016 - 2017

NNT709 NANOPARTIKULLERIN ANALİZ YONTEMLERİ, Doctorate, 2016 - 2017

ECF507 MEZUNİYET PROJESİ DERSİ I, Doctorate, 2016 - 2017

ECF258 ECZACILIKTA İLERİ ANALİTİK KİMYA, Doctorate, 2016 - 2017

Postgraduate

EAK 631 TEMEL ANALİTİK KİMYA, Postgraduate, 2017 - 2018

Undergraduate

ECF 235 ANALİTİK KİMYA II, Undergraduate, 2017 - 2018, 2016 - 2017

ECF 132 ANALİTİK KİMYA I, Undergraduate, 2017 - 2018

ECF134 ANALİTİK KİMYA I LABORATUVARI, Undergraduate, 2017 - 2018

ECF258 ECZACILIKTA İLERİ ANALİTİK KİMYA, Undergraduate, 2017 - 2018

ECF 237 ANALİTİK KİMYA II LABORATUVARI, Undergraduate, 2017 - 2018

TLA113 LABORATUVAR KİMYASI, Undergraduate, 2016 - 2017

ECF508 MEZUNİYET PROJESİ DERSİ II, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Detailed characterization of bone marrow adipose tissue mesenchymal stem cells in healthy donor, Fanconi anemia, and acute myeloid leukemia**
Muratoglu B., ÖZDEMİR SAKA C., EYLEM C. C., REÇBER T., NEMUTLU E., ALPDÜNDAR BULUT E., VARGEL İ., Uçkan-cetinkaya D.
BONE, 2025 (SCI-Expanded)
- II. **Endocannabinoid system upregulates the enrichment and differentiation of human iPSC- derived spermatogonial stem cells via CB2R agonism**
Gizer M., Onen S., Erol O. D., AERTS KAYA F. S. F., REÇBER T., NEMUTLU E., Korkusuz P.
BIOLOGICAL RESEARCH, no.1, 2025 (SCI-Expanded)
- III. **An RP-HPLC Method for the Simultaneous Analysis of Selected Antiviral Drugs**
Ozdemirhan M. E., Ozen G., NEMUTLU E.
CHROMATOGRAPHIA, 2025 (SCI-Expanded)
- IV. **Evaluation of the Effect of Allium Tuncelianum (Tunceli Mountain Garlic) Plant Extract on Behavioral, Antioxidant and Metabolomic Parameters in Rats**
ABBAK N., NEMUTLU E., REÇBER T., DAĞLI GÜL A. Ş., AKKOYUN H. T., AKKOYUN M. B., Yılmaz G., Ekin S., Bakir A., ARIHAN O.
ACTA PHYSIOLOGICA, 2025 (SCI-Expanded)
- V. **A novel injectable nanotherapeutic platform increasing the bioavailability and anti-tumor efficacy of Arachidonylcyclopropylamide on an ectopic non-small cell lung cancer xenograft model: A randomized controlled trial**
Boyacioglu O., VARAN C., BİLENSOY E., Aykut Z. G., REÇBER T., NEMUTLU E., Kilic N., KORKUSUZ P.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, 2025 (SCI-Expanded)
- VI. **Evaluation of the Effect of Allium Tuncelianum (Tunceli Mountain Garlic) Plant Extract on Behavioral, Antioxidant and Metabolomic Parameters in Rats**
ABBAK N., NEMUTLU E., REÇBER T., DAĞLI GÜL A. Ş., AKKOYUN H. T., AKKOYUN M. B., Yılmaz G., Ekin S., Bakir A., ARIHAN O.
ACTA PHYSIOLOGICA, pp.79, 2025 (SCI-Expanded)
- VII. **Tracing of Amino Acids Dynamics in Cell Lines Based on ¹⁸O Stable Isotope Labeling**
EYLEM C. C., BAYSAL İ., YABANOĞLU ÇİFTÇİ S., NEMUTLU E.
ANALYTICAL CHEMISTRY, no.4, pp.2143-2152, 2025 (SCI-Expanded)
- VIII. **Optimized high-throughput protocols for comprehensive metabolomic and lipidomic profiling of brain sample**
EYLEM C. C., NEMUTLU E., DOĞAN A., Acik V., Matyar S., Gezercan Y., Altintas S., Okten A. I., BAŞCI AKDUMAN N. E.
TALANTA, vol.282, 2025 (SCI-Expanded)

- IX. **Patient-derived cornea organoid model to study metabolomic characterization of rare disease: aniridia-associated keratopathy**
Koc A. C., Sari V., Kocak G., REÇBER T., NEMUTLU E., Aberdam D., Guven S.
BMC OPHTHALMOLOGY, no.1, 2025 (SCI-Expanded)
- X. **Biological activities, Peptidomics and *in silico* analysis of low-fat Cheddar cheese after *in vitro* digestion: Impact of blending camel and bovine Milk**
Ali A. H., ÖZTÜRK H. İ., EYLEM C. C., NEMUTLU E., Tarique M., Subhash A., Liu S., Kamal-Eldin A., Ayyash M.
FOOD CHEMISTRY, vol.460, 2024 (SCI-Expanded)
- XI. **Ex vivo disease modelling of Rett syndrome: the transcriptomic and metabolomic implications of direct neuronal conversion**
KARAOŞMANOĞLU B., İMREN G., Ozisin M. S., REÇBER T., ŞİMŞEK KİPER P. Ö., Haliloglu G., ALİKAŞİFOĞLU M., NEMUTLU E., TAŞKIRAN Z. E., ÜTİNE G. E.
MOLECULAR BIOLOGY REPORTS, vol.51, no.1, 2024 (SCI-Expanded)
- XII. **2-AG-loaded and bone marrow-targeted PCL nanoparticles as nanoplatfoms for hematopoietic cell line mobilization**
KÖSE S., VARAN C., Onen S., NEMUTLU E., BİLENSOY E., Korkusuz P.
STEM CELL RESEARCH & THERAPY, vol.15, no.1, 2024 (SCI-Expanded)
- XIII. **Phytochemical Profile and Antioxidant, Enzyme-Inhibitory, and Cytotoxic Potential of Endemic *Cynoglottis chetikiana* subsp. *chetikiana***
Baran M. Y., GÜNDOĞDU S., Simon A., DUMAN H., REÇBER T., NEMUTLU E., Kuruuzum-Uz A.
PHARMACOGNOSY MAGAZINE, 2024 (SCI-Expanded)
- XIV. **Preparation and in vitro characterization of memantine HCl loaded PLGA nanoparticles for Alzheimer's disease**
Tezel G., Uluturk S., REÇBER T., TİMUR S. S., NEMUTLU E., ESENDAĞLI G., GÜLBAĞ PINAR S., EROĞLU H.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.100, 2024 (SCI-Expanded)
- XV. **Glutamine withdrawal leads to the preferential activation of lipid metabolism in metastatic colorectal cancer**
Taskiran A. E. G., Karaoglu D. A., EYLEM C. C., Ermis C., Guederer I., NEMUTLU E., DEMİRKOL CANLI S., BANERJEE S.
TRANSLATIONAL ONCOLOGY, vol.48, 2024 (SCI-Expanded)
- XVI. **Metabolomic analysis of the effect of endocannabinoid metabolism inhibition in allergic airway inflammation**
Abohalaka R., KARAMAN Y., REÇBER T., ÖNDER S. Ç., NEMUTLU E., BOZKURT T. E.
EUROPEAN RESPIRATORY JOURNAL, 2024 (SCI-Expanded)
- XVII. **The potential role of hot flashes treatment strategies and regorafenib combinations in breast cancer therapy via co-drug loaded polymeric nanoparticles**
Esim O., Adatepe S., Sarper M., Bakirhan N. K., ERDOĞAN KABLAN S., Kocak E., Ozkan C. K., NEMUTLU E., Savaser A., ÖZKAN S. A., et al.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.98, 2024 (SCI-Expanded)
- XVIII. **Selective and Sensitive MIP-Based Electrochemical Sensor for the Analytical Determination of Lanreotide**
Ozkan E., Corman M. E., NEMUTLU E., ÖZKAN S. A., KIR S.
MICROCHEMICAL JOURNAL, vol.202, 2024 (SCI-Expanded)
- XIX. **Development of a low allergenic product for patients with milk allergy and assessment of its specific IgE reactivity**
Yazici D., SÜER MİCKLER H., Bulbuloglu C. N., Guzar E., Kocak E., NEMUTLU E., Buyuktiryaki B., Sackesen C.
PEDIATRIC ALLERGY AND IMMUNOLOGY, vol.35, no.6, 2024 (SCI-Expanded)
- XX. **Metabolomics profiling for diagnosis of acute renal failure after cardiopulmonary bypass**
ERDOĞAN KABLAN S., Yılmaz A., Syed H., Kocabeyoğlu S. S., Kervan Ü., ÖZALTIN N., NEMUTLU E.
Rapid Communications in Mass Spectrometry, vol.38, no.9, 2024 (SCI-Expanded)
- XXI. **A comparative urinary proteomic and metabolomic analysis between renal aa amyloidosis and membranous nephropathy with clinicopathologic correlations**

ÖZBEK D. A., Koc S. C., Kucuk N. E. O., Kablan S., YET İ., ÜNER M., Ozlu N., NEMUTLU E., LAY İ., Ayhan A. S., et al.
JOURNAL OF PROTEOMICS, 2024 (SCI-Expanded)

- XXII. **Longitudinal non-targeted metabolomic profiling of urine samples for monitoring of kidney transplantation patients**
Yozgat I., Cakır U., SERDAR M. A., ŞAHİN S., SEZERMAN O. U., NEMUTLU E., BAYKAL A. T., SERTESER M.
Renal Failure, vol.46, no.1, 2024 (SCI-Expanded)
- XXIII. **Behavior, antioxidant, and metabolomics effects of Allium tuncelianum**
ABBAK N., NEMUTLU E., REÇBER T., Gul A. S. D., Akkoyun H. T., Akkoyun M. B., Yilmaz G., Ekin S., Bakir A., ARIHAN O.
Food Science and Nutrition, 2024 (SCI-Expanded)
- XXIV. **Inulin may prevent the high-fat diet induced-obesity via suppressing endocannabinoid system in the prefrontal cortex in Wistar rats**
ALPTEKİN İ. M., Cakiroglu F. P., REÇBER T., NEMUTLU E.
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.75, pp.800-811, 2024 (SCI-Expanded)
- XXV. **Generation of Anterior Segment of the Eye Cells from hiPSCs in Microfluidic Platforms**
Koçak G., Uyulgan S., Polatlı E., Sarı V., Kahveci B., Bursali A., Binokay L., REÇBER T., NEMUTLU E., Mardinoğlu A., et al.
Advanced Biology, 2024 (SCI-Expanded)
- XXVI. **Omic Studies on In Vitro Cystinosis Model: siRNA-Mediated CTNS Gene Silencing in HK-2 Cells**
Baysal İ., YABANOĞLU ÇİFTÇİ S., NEMUTLU E., EYLEM C. C., Gök-Topak E. D., ULUBAYRAM K., KIR S., GÜLHAN B., UÇAR G., ÖZALTIN F., et al.
Laboratory investigation; a journal of technical methods and pathology, vol.104, no.1, pp.100287, 2024 (SCI-Expanded)
- XXVII. **Manipulating macrophage polarization with nanoparticles to control metastatic behavior in heterotypic breast cancer micro-tissues via exosome signaling**
Sungu M., Isik M., GÜLER Ü., EYLEM C. C., ESKİZENGİN H., NEMUTLU E., SALİH B., DERKUŞ B.
Nanoscale, vol.16, no.1, pp.394-410, 2023 (SCI-Expanded)
- XXVIII. **Molecular docking, synthesis, anticancer activity, and metabolomics study of boronic acid ester-containing fingolimod derivatives**
DOYDUK D., DERKUŞ B., Sari B., EYLEM C. C., NEMUTLU E., YILDIRIR Y.
Archiv der Pharmazie, vol.356, no.12, 2023 (SCI-Expanded)
- XXIX. **Bioactive and chemically defined hydrogels with tunable stiffness guide cerebral organoid formation and modulate multi-omics plasticity in cerebral organoids**
Isik M., Okesola B. O., EYLEM C. C., Kocak E., NEMUTLU E., D'Este M., Mata A., DERKUŞ B.
Acta Biomaterialia, vol.171, pp.223-238, 2023 (SCI-Expanded)
- XXX. **Molecularly imprinted electrochemical sensor for the selective and sensitive determination of octreotide in cancer patient plasma sample**
Ozkan E., Ozcelikay G., Gök Topak E. D., NEMUTLU E., ÖZKAN S. A., DİZDAR Ö., AKSOY S., KIR S.
Talanta, vol.263, 2023 (SCI-Expanded)
- XXXI. **Biomarkers in exhaled breath condensate as fingerprints of asthma, chronic obstructive pulmonary disease and asthma-chronic obstructive pulmonary disease overlap: a critical review**
Seyfinejad B., NEMUTLU E., Taghizadieh A., Khoubnasabjafari M., ÖZKAN S. A., Jouyban A.
BIOMARKERS IN MEDICINE, vol.17, no.19, pp.811-837, 2023 (SCI-Expanded)
- XXXII. **Simultaneous Determination of Ruscogenin, Neoruscogenin, Trimebutin, and Parabens in Cream Formulation by Reverse Phase High Performance Liquid Chromatography**
Özen G., NEMUTLU E.
Chromatographia, vol.86, no.10, pp.649-657, 2023 (SCI-Expanded)
- XXXIII. **3D Printing of Extracellular Matrix-Based Multicomponent, All-Natural, Highly Elastic, and Functional Materials toward Vascular Tissue Engineering**
Isik M., Karakaya E., Arslan T. S., Atila D., ERDOĞAN Y. K., ARSLAN Y. E., ESKİZENGİN H., Eylem C. C., NEMUTLU E., ERCAN B., et al.
Advanced Healthcare Materials, vol.12, no.20, 2023 (SCI-Expanded)

- XXXIV. **GC-MS Based Metabolomics Analysis to Evaluate Short-Term Effect of Tumor Removal on Patients with Early-Stage Breast Cancer**
Beksac K, REÇBER T, Cetin B, ALP O, Kaynaroglu V, KIR S, NEMUTLU E.
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.61, pp.612-618, 2023 (SCI-Expanded)
- XXXV. **The effect of mitochondria-targeted slow hydrogen sulfide releasing donor AP39-treatment on airway inflammation**
KARAMAN Y., Kaya-Yasar Y., Eylem C. C., ÖNDER S. Ç., NEMUTLU E., BOZKURT T. E., Sahin-Erdemli I.
European Journal of Pharmacology, vol.946, 2023 (SCI-Expanded)
- XXXVI. **Metabolomic, oxidative, and inflammatory responses to acute exercise in chronic obstructive pulmonary disease**
ÇAKMAK A., NEMUTLU E., YABANOĞLU ÇİFTÇİ S., BAYSAL İ., Kocaaga E., Coplu L., İNAL İNCE D.
Heart and Lung, vol.59, pp.52-60, 2023 (SCI-Expanded)
- XXXVII. **Metabolomic Analyses to Identify Candidate Biomarkers of Cystinosis**
NEMUTLU E., ÖZALTIN F., YABANOĞLU ÇİFTÇİ S., GÜLHAN B., Eylem C. C., BAYSAL İ., Gök-Topak E. D., ULUBAYRAM K., SEZERMAN O. U., UÇAR G., et al.
International Journal of Molecular Sciences, vol.24, no.3, 2023 (SCI-Expanded)
- XXXVIII. **Celecoxib Nanoformulations with Enhanced Solubility, Dissolution Rate, and Oral Bioavailability: Experimental Approaches over In Vitro/In Vivo Evaluation**
Arslan A., YET B., NEMUTLU E., AKDAĞ ÇAYLI Y., EROĞLU H., ÖNER L.
Pharmaceutics, vol.15, no.2, 2023 (SCI-Expanded)
- XXXIX. **Electrochemically based targeted metabolomics for uric acid, xanthine, and hypoxanthine in plasma samples for early diagnosis of acute renal failure after cardiopulmonary bypass using rGO-GCE**
ERDOĞAN KABLAN S., Yılmaz A., Kervan Ü., Özaltın N., NEMUTLU E.
Talanta, vol.253, 2023 (SCI-Expanded)
- XL. **Development of lacrimal gland organoids from iPSC derived multizonal ocular cells**
Asal M., Koçak G., Sarı V., REÇBER T., NEMUTLU E., Utine C. A., Güven S.
Frontiers in Cell and Developmental Biology, vol.10, 2023 (SCI-Expanded)
- XLI. **CB65 and novel CB65 liposomal system suppress MG63 and Saos-2 osteosarcoma cell growth in vitro**
Zorba B. I., Boyacıoğlu Ö., Çağlayan T., REÇBER T., NEMUTLU E., EROĞLU İ., KORKUSUZ P.
Journal of Liposome Research, 2023 (SCI-Expanded)
- XLII. **Metabolomics analysis insight into medicinal plant science**
Waris M., Kocak E., Gonulalan E. M., DEMİREZER L. Ö., KIR S., NEMUTLU E.
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.157, 2022 (SCI-Expanded)
- XLIII. **MITOCHONDRIA-TARGETED COQ10 FORMULATION FOR THE TREATMENT OF COQ10 NEPHROPATHIES**
Ozbay H. S., Ciftci S. Y., BAYSAL İ., GÜLTEKİNOĞLU BAYRAM M., Eylem C. C., ULUBAYRAM K., NEMUTLU E., TOPALOĞLU R., ÖZALTIN F.
PEDIATRIC NEPHROLOGY, vol.37, no.11, pp.2830-2831, 2022 (SCI-Expanded)
- XLIV. **Inulin may prevent steatosis by suppressing cannabinoid receptor-1 and patatin-like phospholipase-3 expression in liver**
Alptekin I. M., ÇAKIROĞLU F. P., KİREMİTÇİ S., REÇBER T., NEMUTLU E.
NUTRITION, vol.103, 2022 (SCI-Expanded)
- XLV. **Separation of the enantiomers of underivatized amino acids by using serially connected dual column high-performance liquid chromatography-tandem mass spectrometry**
Oztepe T., Kale N. B., REÇBER T., BAYSAL İ., YABANOĞLU ÇİFTÇİ S., GÜMÜŞTAŞ M., KIR S., Chankvetadze B., NEMUTLU E.
JOURNAL OF CHROMATOGRAPHY A, vol.1683, 2022 (SCI-Expanded)
- XLVI. **CANDIDATE BIOMARKER(S) FOR CYSTINOSIS WITH OMIC-BASED TECHNOLOGY: FROM LABORATORY TO BED-SIDE**
NEMUTLU E., Eylem C. C., GÜLHAN B., BAYSAL İ., Yabanoglu-Ciftci S., KIR S., ULUBAYRAM K., UÇAR G., SEZERMAN O.

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PEDIATRIC NEPHROLOGY, vol.37, no.11, pp.2831, 2022 (SCI-Expanded)

- XLVII. **Tuning the Cell-Adhesive Properties of Two-Component Hybrid Hydrogels to Modulate Cancer Cell Behavior, Metastasis, and Death Pathways**
Isik M., Okesola B. O., Eylem C. C., Kocak E., NEMUTLU E., EMREGÜL E., D'Este M., DERKUŞ B.
BIOMACROMOLECULES, vol.23, no.10, pp.4254-4267, 2022 (SCI-Expanded)
- XLVIII. **Endocannabinoid metabolism inhibition ameliorates ovalbumin-induced allergic airway inflammation and hyperreactivity in Guinea pigs**
Abohalaka R., KARAMAN Y., REÇBER T., ÖNDER S. Ç., NEMUTLU E., BOZKURT T. E.
LIFE SCIENCES, vol.306, 2022 (SCI-Expanded)
- XLIX. **Voltammetric sensor for COVID-19 drug Molnupiravir on modified glassy carbon electrode with electrochemically reduced graphene oxide**
ERDOĞAN KABLAN S., REÇBER T., Tezel G., TİMUR S. S., Karabulut C., Karabulut T. C., EROĞLU H., KIR S., NEMUTLU E.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.920, 2022 (SCI-Expanded)
- L. **Omics technologies for high-throughput-screening of cell-biomaterial interactions**
Sari B., Isik M., Eylem C. C., Bektas C., Okesola B. O., Karakaya E., EMREGÜL E., NEMUTLU E., DERKUŞ B.
MOLECULAR OMICS, vol.18, no.7, pp.591-615, 2022 (SCI-Expanded)
- LI. **Development of an electrochemical sensor based on porous molecularly imprinted polymer via photopolymerization for detection of somatostatin in pharmaceuticals and human serum**
Ozkan E., corman M. E., NEMUTLU E., ÖZKAN S. A., KIR S.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.919, 2022 (SCI-Expanded)
- LII. **Exometabolomic analysis of susceptible and multi-drug resistant Pseudomonas aeruginosa**
Koçak E., Nigiz Ş., Özkan E., Erdoğın Kablan S., Hazirolan G., Nemutlu E., Kir S., Sağırođlu M., Özkul C.
LETTERS IN APPLIED MICROBIOLOGY, vol.75, no.2, pp.234-242, 2022 (SCI-Expanded)
- LIII. **Optimization and normalization strategies for long term untargeted HILIC-LC-qTOF-MS based metabolomics analysis: Early diagnosis of breast cancer**
REÇBER T., NEMUTLU E., Beksac K., CENNET Ö., Kaynaroglu V., AKSOY S., KIR S.
MICROCHEMICAL JOURNAL, vol.179, 2022 (SCI-Expanded)
- LIV. **High-Throughput Single-Step plasma sample extraction optimization strategies with experimental design for LC-MS and GC-MS integrated metabolomics and lipidomics analysis**
Eylem C. C., NEMUTLU E., DOĞAN A., Acik V., Matyar S., Gezercan Y., Altintas S., Okten A. I., BAŞCI AKDUMAN N. E.
MICROCHEMICAL JOURNAL, vol.179, 2022 (SCI-Expanded)
- LV. **Do Thickening Agents Used in Dysphagia Diet Affect Drug Bioavailability?**
ILGAZ F., TİMUR S. S., Eylem C. C., NEMUTLU E., EROĞLU ERDEM Ç., EROĞLU H., GÖKMEN ÖZEL H.
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.174, 2022 (SCI-Expanded)
- LVI. **Intranasal metformin treatment ameliorates cognitive functions via insulin signaling pathway in ICV-STZ-induced mice model of Alzheimer's disease**
KAZKAYASI BÖLÜK İ., TELLİ G., NEMUTLU E., Uma S.
LIFE SCIENCES, vol.299, 2022 (SCI-Expanded)
- LVII. **Xenogenic Neural Stem Cell-Derived Extracellular Nanovesicles Modulate Human Mesenchymal Stem Cell Fate and Reconstruct Metabolomic Structure**
DERKUŞ B., Isik M., Eylem C. C., ERGİN İ., Camci C. B., Bilgin S., ELBÜKEN Ç., ARSLAN Y. E., AKKULAK M., ADALI O., et al.
ADVANCED BIOLOGY, vol.6, no.6, 2022 (SCI-Expanded)
- LVIII. **Metabolomics mapping changed after olanzapine therapy in drug-naive schizophrenia patients-the significant impact of gene polymorphisms**
KARAHALİL B., ELKAMA A., AK M., NEMUTLU E.
TOXICOLOGY RESEARCH, vol.11, pp.547-556, 2022 (SCI-Expanded)
- LIX. **Possible Effect of Chelation Treatment on Metabolomic and Lipidomic Analysis in Lead Exposure**
Çetin T., Samadi A., Reçber T., Dinçer A. K., Eser B., Yalcinkaya A., Nemutlu E., Öztaş Y., Lay İ., Sabuncuođlu S.

JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE, vol.64, no.5, 2022 (SCI-Expanded)

- LX. **A stability indicating RP-HPLC method for determination of the COVID-19 drug molnupiravir applied using nanoformulations in permeability studies**
REÇBER T., TİMUR S. S., ERDOĞAN KABLAN S., Yalcin F., Karabulut T. C., GÜRSOY R. N., EROĞLU H., KIR S., NEMUTLU E.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.214, 2022 (SCI-Expanded)
- LXI. **Liquid biopsy markers for early diagnosis of brain metastasis patients with breast cancer by metabolomics**
Ozer O., NEMUTLU E., REÇBER T., Eylem C. C., AKTAŞ B. Y., KIR S., Kars A., AKSOY S.
EUROPEAN JOURNAL OF MASS SPECTROMETRY, vol.28, no.1-2, pp.56-64, 2022 (SCI-Expanded)
- LXII. **Mitochondria-targeted CoQ(10) loaded PLGA-b-PEG-TPP nanoparticles: Their effects on mitochondrial functions of COQ8B(-/-) HK-2 cells**
Sena Ozbay H., Yabanoglu-Ciftci S., Baysal I., Gultekinoglu M., Can Eylem C. C., Ulubayram K., Nemutlu E., Topaloglu R., Ozaltin F.
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.173, pp.22-33, 2022 (SCI-Expanded)
- LXIII. **Sensitive and cost-effective boron doped diamond and Fe₂O₃/Chitosan nanocomposite modified glassy carbon electrodes for the trace level quantification of anti-diabetic dapagliflozin drug**
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