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Kişisel Bilgiler

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Araştırma Alanları

Sağlık Bilimleri, Temel Bilimler

Verdiği Dersler

Databases in Bioinformatics, Doktora, 2021 - 2022, 2020 - 2021, 2019 - 2020

Biyoinformatiğe Giriş, Yüksek Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Yönetilen Tezler

Pavlopoulou A., Derin Sinir Ağları yaklaşımı kullanılarak hastalıklarla ilişkili işlevsel olarak ilişkili ve Karşılıklı olarak özel mikroRNA'ların tanımlanması, Yüksek Lisans, R.ARSHINCHI(Öğrenci), 2023

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Pavlopoulou A., A systems biology approach for the identification of gene expression signatures for cancer diagnosis, prognosis, and response to radiotherapy, Doktora, H.İBRAHİM(Öğrenci), 2022

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. RadPhysBio: A Radiobiological Database for the Prediction of Cell Survival upon Exposure to Ionizing Radiation

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- III. **Soft Tissue Ewing Sarcoma Cell Drug Resistance Revisited: A Systems Biology Approach**
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- IV. **?In the light of evolution:? keratins as exceptional tumor biomarkers**
Takan I., Karakulah G., Louka A., Pavlopoulou A.
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- V. **Whole Genome Analysis of Dizygotic Twins With Autism Reveals Prevalent Transposon Insertion Within Neuronal Regulatory Elements: Potential Implications for Disease Etiology and Clinical Assessment**
Okay K., ÜNAL VARIŞ P., MİRAL S., PAVLOPOULOU A., OKTAY Y., KARAKÜLAH G.
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- VI. **A Counterintuitive Neutrophil-Mediated Pattern in COVID-19 Patients Revealed through Transcriptomics Analysis**
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- VII. **An in silico approach to the identification of diagnostic and prognostic markers in low-grade gliomas**
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- VIII. **p73 isoforms meet evolution of metastasis**
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- X. **Identification of neoplasm-specific signatures of miRNA interactions by employing a systems biology approach**
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- XI. **A Modern Approach towards an Industry 4.0 Model: From Driving Technologies to Management**
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- XII. **Ginger for Healthy Ageing: A Systematic Review on Current Evidence of Its Antioxidant, Anti-Inflammatory, and Anticancer Properties.**
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- XIII. **Novel integrated workflow allows production and in-depth quality assessment of multifactorial reprogrammed skeletal muscle cells from human stem cells.**
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- XIV. **Thrombocytopenia in COVID-19 and vaccine-induced thrombotic thrombocytopenia.**
Geronikou S., Pavlopoulou A., Mantzourani M., Chrousos G., Takan I.
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- XV. **In Silico Investigation of the Biological Implications of Complex DNA Damage with Emphasis in Cancer Radiotherapy through a Systems Biology Approach**
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- XVI. **Applications of Healthcare Robots in Combating the COVID-19 Pandemic.**
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- XVII. **In Silico Methods for the Identification of Diagnostic and Favorable Prognostic Markers in Acute Myeloid Leukemia.**
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- XVIII. **Polycystic ovary syndrome revisited: An interactions network approach.**
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- XIX. **Bioinformatic approaches to the investigation of the atavistic genes implicated in cancer.**
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- XX. **Mining Natural Products with Anticancer Biological Activity through a Systems Biology Approach.**
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- XXI. **Interactions Networks for Primary Heart Sarcomas**
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- XXII. **A Systems-Based Key Innovation-Driven Approach Infers Co-option of Jaw Developmental Programs During Cancer Progression.**
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- XXIII. **Investigating Molecular Determinants of Cancer Cell Resistance to Ionizing Radiation Through an Integrative Bioinformatics Approach.**
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- XXIV. **Kisspeptin and the Genetic Obesity Interactome.**
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- XXV. **Neural Networks Recapitulation by Cancer Cells Promotes Disease Progression: A Novel Role of p73 Isoforms in Cancer-Neuronal Crosstalk.**
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- XXVI. **Codon usage bias in radioresistant bacteria.**
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- XXVII. **Codon Usage and Phenotypic Divergences of SARS-CoV-2 Genes.**
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- XXVIII. **A Bioinformatic Approach for the Identification of Molecular Determinants of Resistance/Sensitivity to Cancer Thermotherapy.**
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- XXIX. **In Silico Phylogenetic and Structural Analyses of Plant Endogenous Danger Signaling Molecules upon Stress.**
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- XXX. **HOTAIR as a Prognostic Predictor for Diverse Human Cancers: A Meta- and Bioinformatics Analysis.**
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- XXXI. **Prediction of Gold Nanoparticle and Microwave-Induced Hyperthermia Effects on Tumor Control via a Simulation Approach.**
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- XXXIII. **In silico Phylogenetic Analysis of hAT Transposable Elements in Plants.**
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- XXXIV. **Bipartite graphs in systems biology and medicine: a survey of methods and applications.**
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- XXXVII. **Integrating plant and animal biology for the search of novel DNA damage biomarkers.**
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- XXXVIII. **Gold nanoparticles, radiations and the immune system: Current insights into the physical mechanisms and the biological interactions of this new alliance towards cancer therapy**
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- XL. **Bridging Plant and Human Radiation Response and DNA Repair through an In Silico Approach**
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- XLI. **Unravelling a p73-regulated network: The role of a novel p73-dependent target, MIR3158, in cancer cell migration and invasiveness**
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- XLII. **Interactome of Obesity: Obesidome Genetic Obesity, Stress Induced Obesity, Pathogenic Obesity Interaction**
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- XLIV. **Network analysis of genes and their association with diseases**
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- XLV. **Progression of mouse skin carcinogenesis is associated with the orchestrated deregulation of mir-**

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- XLVI. **Unraveling the mechanisms of extreme radioresistance in prokaryotes: Lessons from nature**
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- XLVII. **Emerging molecular networks common in ionizing radiation, immune and inflammatory responses by employing bioinformatics approaches**
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- XLIX. **A Comprehensive Phylogenetic and Structural Analysis of the Carcinoembryonic Antigen (CEA) Gene Family**
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- L. **3D molecular modeling and evolutionary study of the Trypanosoma brucei DNA Topoisomerase IB, as a new emerging pharmacological target**
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- LII. **Unraveling microalgal molecular interactions using evolutionary and structural bioinformatics**
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- LIII. **Antiviral Stratagems Against HIV-1 Using RNA Interference (RNAi) Technology**
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- LIV. **A Comprehensive Phylogenetic Analysis of Deadenylases**
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- LV. **An Integrated In Silico Approach to Design Specific Inhibitors Targeting Human Poly(A)-Specific Ribonuclease**
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- LVI. **The PRINTS database: a fine-grained protein sequence annotation and analysis resource-its status in 2012**
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- LVII. **State-of-the-art bioinformatics protein structure prediction tools (Review)**
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- LVIII. **Cytosine Methyltransferases as Tumor Markers**
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- LXI. **Plant cytosine-5 DNA methyltransferases: Structure, function, and molecular evolution**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Temporal evolution and adaptation of SARS-CoV-2 codon usage.**
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- II. **Bio-Virus Spread Simulation in Real 3D Space using Augmented Reality**
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- III. **The human GPCR signal transduction network**
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- IV. **Methods of Analysis and Meta-Analysis for Identifying Differentially Expressed Genes.**
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- VI. **Data and programs in support of network analysis of genes and their association with diseases**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Algorithm-based approach to uncover potential microRNAs related to cancers of the gastrointestinal track**
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Desteklenen Projeler

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Demirdöğen R. E., Emen F. M., Dükel M., Pavlopoulou A., Ayar Kayali H., Meuwissen R. L. J., TÜBİTAK Projesi, Yeni Multifonksiyonel Akıllı Yapay Virüs Taşıyıcı Sistemlerin Geliştirilmesi ve Crispr/Cas9 Genom Çapında Sekanslama İle

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Bilimsel Dergilerdeki Faaliyetler

FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY, Yardımcı Editör/Bölüm Editörü, 2023 - Devam Ediyor

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