

Call for Papers

Alternative: Dimensions of DNA: A Multidisciplinary Perspective

Deadline: October 31

Organized by: Editorial Office, Albanian Journal of Natural and Technical Sciences, Albanian Academy of Sciences

We invite researchers, scholars, scientists, and policy-makers to submit original papers for publication in the **Albanian Journal of Natural and Technical Sciences** for a special issue dedicated to **DNA and its Far-Reaching Implications**. This edition aims to promote a multidisciplinary dialogue on DNA—exploring its molecular foundations, technological innovations, and the wide-ranging ethical, social, environmental, and philosophical questions it raises.

Scope and Topics of Interest

We welcome submissions from all disciplines that intersect with the study and application of DNA. Topics of interest include, but are not limited to:

1. Scientific and Technological Advances

- DNA structure, function, and regulation
- Genomics, transcriptomics, and epigenetics
- CRISPR and genome editing technologies
- DNA sequencing and bioinformatics
- Synthetic biology and genetic engineering
- DNA-based computing and nanotechnology

2. Health, Medicine, and Personalized Care

- DNA and the future of medicine
- Pharmacogenomics and individualized therapy
- Genetic screening and diagnostics
- Gene therapy and regenerative medicine
- Rare diseases and DNA mutations
- Ethical dilemmas in genetic enhancement

3. Education and Public Understanding

- Teaching DNA and genetics in schools
- Public engagement in genetic science
- Combating misinformation about genetics
- DNA and cultural narratives

4. Forensics, History, and Anthropology

- DNA in forensic investigations
- Ancient DNA and human evolution
- Genetic genealogy and ancestry tracing
- DNA and cultural heritage

5 Ancient DNA in Paleontological and Sedimentary Contexts

- Recovery of ancient DNA (aDNA) from soils, sediments, permafrost, and cave deposits
- Stratigraphy and dating of DNA layers in geological archives
- Insights into extinct flora, fauna, and paleoecological systems.
- Human evolution and migration

6. Environmental DNA (eDNA) and Geomonitoring

- Use of environmental DNA to monitor biodiversity in terrestrial and aquatic systems
- Soil and sediment DNA as bioindicators of ecosystem change

7. Paleogenomics and Earth History

- Reconstructing of evolutionary histories using DNA extracted from fossils.
- Correlating genetic data with geological and climatic events (e.g., glacial periods, mass extinctions)

8. Ethics and Access in Geo-Genomic Research

- Ethical considerations surrounding DNA sampling from geologically or culturally significant sites
- Ownership and stewardship of genetic resources tied to specific territories

Submission Guidelines

We welcome the following types of submissions:

- Full research papers
- Review articles
- Short communications
- Case studies
- Ethical or legal position papers
- Educational innovations and experiences
- Interdisciplinary and creative perspectives

All submissions will undergo a peer-review process. Accepted papers will be published in the Albanian Journal of Natural and Technical Sciences, and may be considered for inclusion in a special issue or edited volume.

Submission Deadline: October 31

Notification of Acceptance: November 20

Final Paper Due: January 15

How to Submit

Please send your manuscript and abstract (max 300 words) via akadshkreta@gmail.com. Formatting and referencing guidelines are available at

https://akad.gov.al/wp-content/uploads/2024/12/ENG_Instructions_JNTS-final-2.pdf

https://akad.gov.al/wp-content/uploads/2024/12/Ethics_Issues_publishing-procedures-2.pdf

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