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HELLENIC REPUBLIC
MINISTRY OF DEVELOPMENT
GENERAL SECRETARIAT FOR RESEARCH AND INNOVATION
HELLENIC FOUNDATION FOR RESEARCH AND INNOVATION

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FUNDING LISTS OF THE PROPOSALS

Submitted in the Scientific Areas

**Agricultural Sciences – Food Science and Technology (SA. 4)
Category I & II**

**Mathematics and Information Sciences (SA. 5)
Category II**

**“3rd Call and Management and Implementation Guide for H.F.R.I. Research Projects to Support
Faculty Members and Researchers”**

Subsequent to the issuance of the Ref. No. 109836/14.07.2025 (IUN: ΨΧ9Υ46Μ77Γ-8ΕΩ) Directors' Decision on "The publication of the Funding Lists of the proposals in the Scientific Areas "**Agricultural Sciences – Food Science and Technology**" (SA. 4) Categories I & II and "**Mathematics and Information Sciences**" (SA. 5) Category II submitted under the "3rd Call and Management and Implementation Guide for H.F.R.I. Research Projects to Support Faculty Members and Researchers" (Ref. No. 70402/28.07.2023, as in force), below is the Funding List per Scientific Area and Category.

| FUNDING LIST | | | | | |
|--|--------------|--|-----------------------------|--------------------------------------|---------------------|
| Agricultural Sciences – Food Science and Technology (SA. 4) | | | | | |
| CATEGORY I | | | | | |
| A/N | Proposal No. | Title | Principal Investigator Name | Host Institution | Approved budget (€) |
| 1. | 26420 | Assessment and characterization of the survivability of <i>Salmonella enterica</i> in low-water activity model food matrices | LIANOU ALEXANDRA | UNIVERSITY OF PATRAS | 230.227,00 € |
| 2. | 26141 | Sustainable Aquaculture Wastewater Treatment: Integrated Approach to Promote Water-Energy Conservation and Food Security by Minimizing the Environmental Footprint | ANTONOPOULOU MARIA | UNIVERSITY OF PATRAS | 299.580,00 € |
| 3. | 23645 | Enzyme engineering for the construction of an enzymefilter for water remediation | CHRONOPOULOU EVANGELIA | AGRICULTURAL UNIVERSITY OF ATHENS | 296.968,00 € |
| 4. | 24839 | Development of a framework to detect olive oil adulteration and authenticity utilizing high-throughput sequencing, molecular markers, and chemometrics | TRANTAS EMMANOUIL | HELLENIC MEDITERRANEAN UNIVERSITY | 299.976,00 € |
| 5. | 23271 | Depicting the prevalence and assessment of colonization of <i>Salmonella</i> in fresh produce | DOULGERAKI AGAPI | ARISTOTLE UNIVERSITY OF THESSALONIKI | 300.000,00 € |
| 6. | 25119 | Functional ecology of Entomopathogenic Nematodes and their symbiotic bacteria | KAPRANAS APOSTOLOS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 300.000,00 € |

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|----|-------|---|--------------------|--|--------------|
| 7. | 26387 | Development of modern chemometric, rapid molecular and biomolecular methods for honey authenticity and adulteration testing | KARABAGIAS IOANNIS | UNIVERSITY OF PATRAS | 299.945,00 € |
| 8. | 23345 | Unraveling the Molecular Landscape of Sweet Cherry Abscission to Advance Mechanical Harvesting | BAZAKOS CHRISTOS | HELLENIC AGRICULTURAL ORGANIZATION (ELGO)- "DIMITRA" | 300.000,00 € |

FUNDING LIST

Agricultural Sciences – Food Science and Technology (SA. 4)

CATEGORY II

| A/N | Proposal No. | Title | Principal Investigator Name | Host Institution | Approved budget (€) |
|-----|--------------|---|-----------------------------|--------------------------------------|---------------------|
| 1. | 26263 | Beyond conventional packaging: Exploring 3D printing technology for developing edible films and coatings on food and plastics for sustainable food preservation | PARASKEVOPOULOU ADAMANTINI | ARISTOTLE UNIVERSITY OF THESSALONIKI | 299.692,00 € |
| 2. | 26145 | Biotechnological conversions of cheese whey into high nutraceutical-value fungal metabolites | PAPANIKOLAOU SERAPHIM | AGRICULTURAL UNIVERSITY OF ATHENS | 300.000,00 € |
| 3. | 23393 | Charge balance: a missing piece of the auxin-triggered acid growth puzzle in roots | RIGAS STAMATIS | AGRICULTURAL UNIVERSITY OF ATHENS | 300.000,00 € |
| 4. | 25855 | Harnessing the biotypes of <i>Culex pipiens</i> to understand the regulation of reproductive diapause and autogeny towards developing novel control approaches | PAPADOPOULOS NIKOLAOS | UNIVERSITY OF THESSALY | 296.848,00 € |
| 5. | 25228 | Local genetic resources: characterisation and traceability of the autochthonous Greek Black Pig using ancient and modern whole-genome data | TRIANAFYLLIDIS ALEXANDROS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 283.981,00 € |

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|-----|-------|--|-----------------------------|--|--------------|
| 6. | 25758 | Development of drought RESilient SEsames varieties with high seed yield via an inTEgrated breeding approach | VLACHOSTERGIOS DIMITRIOS | HELLENIC AGRICULTURAL ORGANIZATION (ELGO)-"DIMITRA" | 299.527,00 € |
| 7. | 25649 | Towards more sustainable aquafeeds: evaluating the use of insect meals and microalgae in the diet of European seabass | KARAPANAGIOTIDIS IOANNIS | UNIVERSITY OF THESSALY | 299.860,00 € |
| 8. | 23673 | Insect Frass for Sustainable Pest Management | ΠΑΠΠΑ ΜΑΡΙΑ | DEMOCRITUS UNIVERSITY OF THRACE | 300.000,00 € |
| 9. | 25289 | High-throughput genotyping and deep phenotypic atlas of Saccharomyces cerevisiae to tailor the next generation wine-growing | BANILAS GEORGIOS | UNIVERSITY OF WEST ATTICA | 282.389,00 € |
| 10. | 23500 | A Holistic Irrigation Management Approach for Island Olive Cultivation through Large-Scale Weighing Lysimeters and Field-Based Modeling Techniques | KOURGIALAS NEKTARIOS | HELLENIC AGRICULTURAL ORGANIZATION (ELGO)-"DIMITRA" | 299.926,00 € |
| 11. | 23750 | The synergy of Salt reduction, improved Packaging, and Omics techniques in enhancing the biofunctional dynamic of KALamata natural black OLIVES | PANAGOU EFSTATHIOS | AGRICULTURAL UNIVERSITY OF ATHENS | 299.998,00 € |

FUNDING LIST

Mathematics and Information Sciences (SA. 5)

CATEGORY II

| A/N | Proposal No. | Title | Principal Investigator Name | Host Institution | Approved budget (€) |
|-----|--------------|--|-----------------------------|---|---------------------|
| 1. | 23652 | Algebraic techniques in harmonic analysis and incidence geometry | ILIOPOULOU MARINA | NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS | 239.340,00 € |
| 2. | 24896 | Truthful and Fair Algorithms for Resource Allocation | CHRISTODOULOU GEORGIOS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 254.987,00 € |

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|-----|-------|--|------------------------|---|--------------|
| 3. | 24921 | Applications of Homological and Homotopical Techniques in Algebra and Geometry | EMMANOUIL IOANNIS | NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS | 236.976,00 € |
| 4. | 25480 | Higher Homotopical Perspectives in Geometry and Algebra: New Approaches and Interactions | RAPTIS GEORGIOS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 239.571,00 € |
| 5. | 23640 | Intentional database querying to facilitate interactive data storytelling | VASSILIADIS PANOS | UNIVERSITY OF IOANNINA | 254.998,00 € |
| 6. | 24979 | Topological Sarnak conjecture and multiple ergodic averages for nilpotent groups | KOUTSOGIANNIS ANDREAS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 180.000,00 € |
| 7. | 25300 | Human-Centered Neural Abstractive Summarization | TSOUMAKAS GRIGORIOS | ARISTOTLE UNIVERSITY OF THESSALONIKI | 186.854,00 € |
| 8. | 26873 | EXplainable and demoCrAtized pipeLInes for unBiased, trUstworthy, and Responsible human-centric AI | VAKALI ATHENA | ARISTOTLE UNIVERSITY OF THESSALONIKI | 254.999,00 € |
| 9. | 25389 | Quantum-Enhanced Adaptive Computer Systems | MAGOUTIS KONSTANTINOS | FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH) | 254.563,00 € |
| 10. | 25024 | Sparse Local Interaction Machine Networks | HRISTOPULOS DIONISSIOS | TECHNICAL UNIVERSITY OF CRETE | 254.999,00 € |
| 11. | 25735 | A Cognitive Architecture for Robotic Arms coupling Machine Learning and Logic | TRACHANIAS PANAGIOTIS | FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH) | 254.927,00 € |
| 12. | 23767 | Towards advancing the Mathematical and Computational Foundations for Digital Twins of Wireless Ad Hoc Networks | TOUMPIS STAVROS | ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS | 254.881,00 € |
| 13. | 25146 | Adaptive Indexing and Processing of High-dimensional Vector Data | DOULKERIDIS CHRISTOS | UNIVERSITY OF PIRAEUS | 252.687,00 € |
| 14. | 25957 | Explainable and efficient large multimodal models for downstream video recognition tasks | MEZARIS VASILEIOS | CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS | 254.999,00 € |

The Director of the Hellenic Foundation for Research and Innovation

Dr Aikaterini Kouravelou