



HELLENIC REPUBLIC  
MINISTRY OF DEVELOPMENT AND INVESTMENTS  
GENERAL SECRETARIAT FOR RESEARCH AND TECHNOLOGY  
**HELLENIC FOUNDATION FOR RESEARCH AND INNOVATION**  
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Athens, 10.09.2020  
Ref. No. 27765

## FUNDING LIST

### of the Proposals

submitted in the Scientific Areas

**A. Physical Sciences (S.A.1)**  
**C. Life Sciences (Medicine & Health Sciences) (S.A.3)**  
**D. Agricultural Sciences – Food Science & Technology (S.A.4)**

### “2nd Call for H.F.R.I. Research Projects to Support Post-Doctoral Researchers”

The 2nd Evaluation Phase for proposals submitted under the “2nd Call for H.F.R.I. Research Projects to support Post-Doctoral Researchers” (Ref. No. 7121/29.11.2018, as in force) in the Scientific Areas **A. Physical Sciences (S.A.1)**, **C. Life Sciences (Medicine & Health Sciences) (S.A.3)** and **D. Agricultural Sciences – Food Science & Technology (S.A.4)** has been concluded.

Following the Decision of the H.F.R.I.’s Scientific Council (Ref. No. 27718/08.09.2020) regarding the publishing of the final evaluation results, and the Funding Decision of the H.F.R.I.’s Director (Ref. No. 27764/10.09.2020, OPN: Ψ0NM46M77Γ-036), here follows the **List of the Proposals to be funded in the Scientific Areas A. Physical Sciences (S.A.1), C. Life Sciences (Medicine & Health Sciences) (S.A.3) and D. Agricultural Sciences – Food Science & Technology (S.A.4)**, based on their final ranking (Ref. No. 27743/09.09.2020) and the available budget (H.F.R.I.’s Scientific Council Decision with Ref. No. 19313/21.11.2019, OPN: ΩΓΨΦ46M77Γ-ΔΕΒ).

A letter of approval will be digitally sent to the PIs whose proposals are included in the List of proposals to be funded, by which they will be asked to submit the necessary documents to H.F.R.I portal for the issuing of their proposal’s Funding Decision, in agreement with the Management-Implementation Guide of the Call (Decision of the H.F.R.I.’s Director with Ref. No. 26027/30.06.2020).

In case of a proposal withdrawal or failure to submit all necessary documents, the proposal immediately following the last in the list, according to the final ranking of the proposals in the respective Scientific Area, may be funded.

## FUNDING LIST

### of the Proposals

submitted in the Scientific Areas

**A. Physical Sciences (S.A.1)**  
**C. Life Sciences (Medicine & Health Sciences) (S.A.3)**  
**D. Agricultural Sciences – Food Science & Technology (S.A.4)**

**“2nd Call for H.F.R.I. Research Projects to Support Post-Doctoral Researchers”**

### A. SCIENTIFIC AREA – PHYSICAL SCIENCES

Table C.A. below presents the **Proposals to be funded** in the Scientific Area **A. Physical Sciences (S.A.1)**, based on their scoring, as listed in the Final Table (Ref. No. 27743/09.09.2020) and the available budget (H.F.R.I.’s Scientific Council Decision with Ref. No. 19313/21.11.2019, OPN: ΩΓΨΦ46M77Γ-ΔΕΒ).

A. PHYSICAL SCIENCES					
C.A. FUNDING LIST					
A/N	Proposal Number	Title	Principal Investigator’s Name	Institution	Approved Budget (€)
1.	<b>911</b>	Artificial Macrocycles: (R)evolution of Drug Discovery	KONSTANTINOS NEOCHORITIS	UNIVERSITY OF CRETE	<b>164,000</b>
2.	<b>224</b>	Magnetized galaxies through cosmic time: Simulating the galactic magnetic field across scales and epochs	EVANGELIA NTORMOISI	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	<b>154,375</b>
3.	<b>450</b>	Advanced Materials for Perovskite Solar Cells	ANDREAS KALTZOGLU	NATIONAL CENTRE FOR SCIENTIFIC RESEARCH “DEMOKRITOS”	<b>164,000</b>
4.	<b>768</b>	Quantum measurement with cold atoms	GEORGIOS VASILAKIS	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	<b>164,000</b>

5.	<b>913</b>	Modified carbon nanostructures and related 2D nanomaterials with small organic and coordination molecules as sustainable electrocatalysts	AMALIA RAPAPOUSIOU	NATIONAL HELLENIC RESEARCH FOUNDATION	<b>164,000</b>
6.	<b>634</b>	Deciphering the multi-messenger signals from Gravitational wave events that include Neutron stars	ANTONIOS NATHANAIL	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>164,000</b>
7.	<b>559</b>	FLAMmable GreecE: Increasing awareness and preparedness for extreme fire weather and behavior	THEODORE GIANNAROS	NATIONAL OBSERVATORY OF ATHENS	<b>163,701</b>
8.	<b>256</b>	Fluid-Induced Seismicity mechanisms: Stochastic modelling, seismic anisotropy and beyond	GEORGIOS MICHAS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>164,000</b>
9.	<b>234</b>	Ultrasonically activated nanomedicines for targeted therapy of pancreatic cancer	GEORGIOS PASPARAKIS	UNIVERSITY OF PATRAS	<b>163,290</b>
10.	<b>1336</b>	Pump-probe Reflectivity Studies of Ultrashort Laser-induced Acoustic Strains in Layered Materials	KYRIAKI KOSMA	HELLENIC MEDITERRANEAN UNIVERSITY	<b>164,000</b>
11.	<b>138</b>	GRoundwater depletion. Are Eco-friendly Energy Recharge Dams a solution?	NERANTZIS KAZAKIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	<b>164,000</b>
12.	<b>916</b>	Novel Multiresonant Photonic Metasurfaces for	ODYSSEAS TSILIPAKOS	FOUNDATION FOR RESEARCH AND TECHNOLOGY-	<b>159,586</b>

		Broadband Control of Light		HELLAS (FORTH)	
13.	<b>770</b>	DARk Matter: from MOdels to PHeNOMeNology	ANDREAS GOUDELIS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>155,800</b>

### C. SCIENTIFIC AREA – LIFE SCIENCES (MEDICINE & HEALTH SCIENCES)

Table C.C. below presents the **Proposals to be funded** in the Scientific Area **Life Sciences (Medicine & Health Sciences) (S.A.3)**, based on their scoring, as listed in the Final Table (Ref. No. 27743/09.09.2020) and the available budget (H.F.R.I.'s Scientific Council Decision with Ref. No. 19313/21.11.2019, OPN: ΩΓΨΦ46Μ77Γ-ΔΕΒ).

<b>C. LIFE SCIENCES (MEDICINE &amp; HEALTH SCIENCES)</b>					
<b>C.C. FUNDING LIST</b>					
<b>A/N</b>	<b>Proposal Number</b>	<b>Title</b>	<b>Principal Investigator's Name</b>	<b>Institution</b>	<b>Approved Budget (€)</b>
1.	<b>1047</b>	Bridging moleCular diAgnostics and metaboloMics in ventilator-aSsociated pneumonia: From biomArker assessment to timely and targeted treatmeNt of ventilateD cRiticAlly ill children	ELIAS IOSIFIDIS	ARISTOTLE UNIVERSITY OF THESSALONIKI	<b>179,966</b>
2.	<b>1078</b>	Understanding the human bone marrow heterogeneity at the single cell level	DIMITRIOS KARAMITROS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>179,798</b>
3.	<b>196</b>	DNA Damage & Metabolism in Progeria and Natural Aging	EVANGELIA GOULIELMAKI	FOUNDATIO N FOR RESEARCH AND TECHNOLOG Y-HELLAS (FORTH)	<b>180,000</b>

4.	<b>1281</b>	Role of mechanical forces in development and cancer	DÉMOSTHÈNE MITROSSILIS	BIOMEDICAL RESEARCH FOUNDATION OF ACADEMY OF ATHENS	<b>180,000</b>
5.	<b>1157</b>	The role of LPAR1 in colorectal cancer	MANOLIS ROULIS	BIOMEDICAL SCIENCES RESEARCH CENTRE ALEXANDER FLEMING	<b>180,000</b>
6.	<b>629</b>	Investigating mechanisms that prevent chromatin bridges from breaking in cytokinesis	ELENI PETSALAKI	UNIVERSITY OF CRETE	<b>179,456</b>
7.	<b>167</b>	Ecological success beyond the genome: Linking adaptive potential with habitat connectivity	KONSTANTINOS SAGONAS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>180,000</b>
8.	<b>553</b>	Innovative approach for personalized prediction and health assessment in chronic lymphocytic leukemia	THEODOROS MOYSIADIS	CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS	<b>179,820</b>
9.	<b>166</b>	Dissecting the Regulatory T cell metabolic aberrancies in autoimmunity to empower their function	THEMIS ALISSAFI	BIOMEDICAL RESEARCH FOUNDATION OF ACADEMY OF ATHENS	<b>180,000</b>
10.	<b>955</b>	Immunoglobulin Light Chains and amyloid fibrils induced	PANAGIOTIS EFENTAKIS	NATIONAL AND KAPODISTRIAN	<b>180,000</b>

		cardiotoxicity. Amenability of the cardiac proteasome activity		UNIVERSITY OF ATHENS	
11.	<b>1287</b>	Deciphering gene expression by long non-coding RNAs in yeast and mammalian stem cells: mechanisms of Cell Fate Determination	FABIEN MORETTO	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	<b>180,000</b>
12.	<b>17</b>	Histone-fold domain proteins with divergent functions of Plasmodium as target for drug development and transmission blocking strategies	CHIARA CURRA	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	<b>180,000</b>
13.	<b>805</b>	Birds migrating in a changing world: movements, regulatory mechanisms and conservation	ANASTASIOS BOUNAS	UNIVERSITY OF IOANNINA	<b>178,848</b>
14.	<b>88</b>	Untying the Gordian Knot of the regulation of Type III Secretion Systems from economically important pathogens	EFSTRATIOS MYLONAS	FOUNDATION FOR RESEARCH AND TECHNOLOGY-HELLAS (FORTH)	<b>180,000</b>
15.	<b>1146</b>	Identification of novel, differentially edited RNA molecules involved in neurodegenerati	EIRINI KANATA-TSIAMI	ARISTOTLE UNIVERSITY OF THESSALONIKI	<b>180,000</b>

		ve disorders pathogenesis			
16.	<b>734</b>	Mechanical forces govern interactions of endothelial cells with pathogenic intracellular bacteria	EFFIE BASTOUNIS	BIOMEDICAL SCIENCES RESEARCH CENTRE ALEXANDER FLEMING	<b>180,000</b>
17.	<b>376</b>	Role of endothelial RhoA in cancer metastasis	CONSTANTINOS-MARIOS MIKELIS	UNIVERSITY OF PATRAS	<b>180,000</b>
18.	<b>1042</b>	Reconstructing a human skeleton: Sorting human skeletal elements from mass disasters	MARIA-ELENI CHOVALOPOULOU	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>179,820</b>
19.	<b>1144</b>	Type 2 Diabetes drives pulmonary and liver fibrosis through phospholipid and microbiota metabolism	ELEANNA KAFFE	BIOMEDICAL SCIENCES RESEARCH CENTRE ALEXANDER FLEMING	<b>180,000</b>
20.	<b>1400</b>	EndotyPIng PreHospitAl de Novo acute hYpoxemic respiratory failure	ILIAS SIEMPOS	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>180,000</b>
21.	<b>860</b>	Metagenomic and Immunogenetic analysis in Multiple Sclerosis	MARINA KLEOPATRA BOZIKI	CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS	<b>179,701</b>

#### D. SCIENTIFIC AREA – AGRICULTURAL SCIENCES – FOOD SCIENCE & TECHNOLOGY

Table C.D. below presents the **Proposals to be funded** in the Scientific Area **Agricultural Sciences – Food Science & Technology (S.A.4)**, based on their scoring, as listed in the Final Table (Ref. No. 27743/09.09.2020) and the available budget (H.F.R.I.'s Scientific Council Decision with Ref. No. 19313/21.11.2019, OPN: ΩΓΨΦ46Μ77Γ-ΔΕΒ).

D. AGRICULTURAL SCIENCES – FOOD SCIENCE & TECHNOLOGY					
C.D. FUNDING LIST					
A/N	Proposal Number	Title	Principal Investigator's Name	Institution	Approved Budget (€)
1.	<b>1053</b>	Towards greater nitrogen use efficiency in agroecosystems	GEORGIOS GIANNOPOULOS	ARISTOTLE UNIVERSITY OF THESSALONIKI	<b>170,000</b>
2.	<b>692</b>	Advanced Metallomics Analysis in Fish for Improved Assessment of Human Risk and Environmental Quality	IOANNA KALANTZI	HELLENIC CENTRE FOR MARINE RESEARCH	<b>169,775</b>
3.	<b>725</b>	Next generation high-throughput target and non-target HRMS screening methodologies for the advanced and comprehensive monitoring of Intentionally & Non-Intentionally Added Substances in Food Contact Materials	MARILENA DASENAKI	NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS	<b>169,947</b>
4.	<b>1254</b>	Odorant Degrading Enzymes as molecular targets for controlling the olive fruit fly's behavior	CHRISTINA DRAKOU	UNIVERSITY OF THESSALY	<b>170,000</b>

5.	<b>1057</b>	Diversity, phylogeny and chemical characterization of Tuber species from Greece – Establishment of fungal inocula to foster truffle cultivation on native plants	ELIAS POLEMIS	AGRICULTURAL UNIVERSITY OF ATHENS	<b>169,188</b>
6.	<b>1183</b>	INteractions of Veterinary antibiotics with soil microorganisms : exploiting microbial degradation to avert Environmental contamination and ResisTance dispersal	SOTIRIOS VASILEIADIS	UNIVERSITY OF THESSALY	<b>170,000</b>
7.	<b>75</b>	Study of the engineering and physicochemical parameters involved in the development of novel, instant kefir based products	STYLIANOS EXARCHOPOULOS	INTERNATIONAL UNIVERSITY OF GREECE	<b>170,000</b>
8.	<b>215</b>	Curculio elephas: novel tools for Integrated Pest Management (IPM) on chestnut trees	EIRINI ANASTASAKI	BENAKI PHYTOPATHOLOGICAL INSTITUTE	<b>170,000</b>

The Director of H.F.R.I.

Dr. Nektarios Nasikas