

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>	Characterization and assembly of a core collection of Cypriot wheat germplasm. Association of agronomical traits and evaluation of elite genotypes.	
<b>No. of Openings:</b>	1	
<b>Description:</b>	<p>Wheat is considered one of the most important crops in the world. It is grown on more land area than any other food crop (545 million acres in 2021), while world trade in wheat is greater than for all other crops combined. Wheat was domesticated in the fertile crescent region, and thus, holds a genetic reservoir capable of withstanding abiotic stresses compared to other non-rainfed crops. Cyprus, an eastern Mediterranean country is in the spotlight of its domestication and has a millennia tradition in wheat cultivation. Consequently, there is great interest in delineating and selecting genetic traits linked to yield and sustainability from native landraces and cultivars. The scope of the study is to employ multidisciplinary approaches (high throughput genotyping/phenotyping and -omics), to pinpoint attributes aiding the selection and delineation of the first Cypriot core wheat collection.</p>	
<b>Funding:</b>	Qualified applicants may be funded as teaching assistants, receive merit-based when and if internal fellowships are awarded, or participate in funded research projects.	
<b>Required Qualifications:</b>	Candidates for the above position must have a Bachelor's and Master's Degree. At least one of the titles must be in one of the following fields: Agricultural Sciences, Biology or another related discipline. In addition, candidates must have a very good knowledge of English. Previous relevant laboratory and agronomic experience is considered an additional qualification.	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Nikolaos Nikoloudakis	
<b>Position:</b>	Assistant Professor	
<b>Email:</b>	n.nikoloudakis@cut.ac.cy	

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>		Valorization of Mediterranean native plants for the development of novel functional foods and innovative food packaging systems
<b>No. of Openings:</b>	1	
<b>Description:</b>	Plant secondary metabolites are extraordinary sources of bioactive compounds eliciting many beneficial health effects for human health. The present study is going to evaluate the phytochemical composition and health effects of a panel of native plants grown in Cyprus. The development of new ultrasound assisted and microwave assisted extraction technologies with the use of “eco-friendly” solvents for the recovery of bioactive compounds from plant materials will be also investigated. Furthermore, the effective valorization of plant extracts for the development of novel functional foods and innovative food packaging systems will be studied.	
<b>Funding:</b>	The candidate can potentially be employed as a teaching assistant, receive an internal scholarship from the University, based on his/her excellence, while he/she can participate in funded research projects which potentially can secure a scholarship.	
<b>Required Qualifications:</b>	Bachelor and Master of Science degree in Agricultural Sciences, Food Science and Technology, Chemistry, Pharmaceutical Sciences or related disciplines. Applicants must have an excellent working knowledge of the English language. Previous relevant research experience will be considered. Candidates will have to support interview for the current position.	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Vlasios Goulas	
<b>Position:</b>	Assistant Professor	
<b>Email:</b>	vlasios.goulas@cut.ac.cy	

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>		Postharvest Physiology and Technology of Fresh Produce/ Alternative processing methods and their effects on quality and safety
<b>No. of Openings:</b>	1	
<b>Description:</b>	<p>The position refers to the post-harvest physiology and technology of fresh products with an emphasis on the preservation of vegetables and/or aromatic and medicinal plants both with a combination of physical/chemical methods but mainly with the use and evaluation of natural products/components e.g. essential oils and plant extracts.</p> <p>Emphasis is placed on evaluation of antioxidant, antimicrobial and other biocidal properties of plant products, but also to enhance nutritive value of the final commodity.</p> <p>More information on the studies carried out on the website <a href="http://www.cut.ac.cy/hydro-aromatic-plant">http://www.cut.ac.cy/hydro-aromatic-plant</a></p>	
<b>Funding:</b>	No funding is foreseen for this position at this stage. Chosen candidate may be hired as teaching assistant, or upon his/her performance acquire internal scholarships. The candidate may be funded through external funding sources (research or services if they are available).	
<b>Required Qualifications:</b>	<p>Bachelor and Master of Science degree in Agricultural Sciences, Food Science/Technology or Food Chemistry or other relevant degree in the area.</p> <p>Applicants should be fluent in English. Previous relevant research experience will be considered.</p> <p>Candidates will have to support interview for the current position.</p>	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Nikolaos Tzortzakis	
<b>Position:</b>	Associate Professor	
<b>Email:</b>	<a href="mailto:nikolaos.tzortzakis@cut.ac.cy">nikolaos.tzortzakis@cut.ac.cy</a>	

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>		Greenhouse crops and intensive cultivation systems (i.e. Hydroponics) for the vegetables and Aromatic Plant production
<b>No. of Openings:</b>	2	
<b>Description:</b>	<p>The positions refer to the study of vegetables and/or aromatic and medicinal plants in intensive growth systems, e.g. Hydroponics in greenhouse crops. Emphasis is placed on endemic plants of Cyprus or plants of increased nutritional value and properties, with the aim of studying them and their response to abiotic stress. Biofortification and bioaccumulation are also research fields of our interest.</p> <p>More information on the studies carried out from the group, on the website <a href="http://www.cut.ac.cy/hydro-aromatic-plants">http://www.cut.ac.cy/hydro-aromatic-plants</a></p>	
<b>Funding:</b>	No funding is foreseen for the positions at this stage. Chosen candidate may be hired as teaching assistant, or upon his/her performance acquire internal scholarships. The candidate may be funded through external funding sources (research or services if they are available).	
<b>Required Qualifications:</b>	Bachelor and Master from an accredited University in Agricultural Sciences or Biology or related disciplines. Applicants should be fluent in English. Previous relevant research experience will be considered. Candidates will have to support interview for the current position.	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Nikolaos Tzortzakis	
<b>Position:</b>	Associate Professor	
<b>Email:</b>	<a href="mailto:nikolaos.tzortzakis@cut.ac.cy">nikolaos.tzortzakis@cut.ac.cy</a>	

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>	Biology, ecology and sustainable management of grape leafhoppers (Hemiptera: Cicadellidae)	
<b>No. of Openings:</b>	1	
<b>Description:</b>	<p>Grape leafhoppers (Hemiptera: Cicadellidae) cause significant economic damage to grape plants by reducing the quality and quantity of yield. Leafhopper outbreaks have been increasing in recent years in several parts of the Mediterranean, but the reasons behind the increase are not clear. The goal of the current research is to gain a better understanding of the biology and ecology of grape leafhoppers in Cyprus and to develop sustainable management methods. In addition, the present work will characterize the susceptibility of the main grape varieties grown on the island to leafhoppers.</p>	
<b>Funding:</b>	<p>Qualified candidates could be funded as teaching assistants, receive internal scholarships based on excellence when and if available participating in funded research grants.</p>	
<b>Required Qualifications:</b>	<p>Bachelor's and Master's degree from an accredited University. At least one of the degrees must cover one of the following topics: Agricultural Sciences or Ecology or related disciplines. Applicants must have an excellent working knowledge of the English language. Previous relevant research experience is highly valued.</p>	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Menelaos Stavrinides	
<b>Position:</b>	Associate Professor	
<b>Email:</b>	m.stavrinides@cut.ac.cy	

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>	The use of alternative forage plants and pastoralism in Cyprus. Research into new species/cultivars, physiology and productivity of sheep and goats, quality of the products and the socio-economic factors that this entails	
<b>No. of Openings:</b>	2	
<b>Description:</b>	<p>The purpose of the research project is to study the use of alternative forage plants in ruminant nutrition both for the improvement of the end-products (eg halloumi) and for the multiple effects this has on the environment, the soil and the local community. Thus, a part of the research concerns the use of pastures and forage pastures, as applied today in Cyprus, while the main part of the research concerns field experiments with new cultivation practices (e.g. no-tillage), with alternative plants (forage legumes, mixtures) adapted to dry climates for forage production and use in ruminants. This PhD investigates (a) possible alternative forage plants and their cultivation methods in Cyprus, (b) their use for feeding ruminants, to create special products (eg grass-fed halloumi) (c ) the effect they may have on their digestive physiology, the quantity/quality of milk, as well as on the expression of genes involved in metabolism, and (d) the overall effect that this use of alternative plants has on social, economic and environmental level (quality local products, reduction of feed imports, increased forage production and carbon sequestration, soil health and improved water retention, etc.).</p>	
<b>Funding:</b>	<p>The candidate may potentially be employed as a teaching assistant, receive merit-based internal scholarship from the University or other source, and may participate in funded research projects or fieldwork that may earn them a scholarship.</p> <p>The candidate(s) will receive a monthly stipend that will cover accommodation and living expenses from external funding secured within the framework of the research project PRIMA, and may potentially be employed as a teaching assistant, or receive, based on excellence, an internal scholarship from the University or other source.</p>	
<b>Required Qualifications:</b>	<p>Applicants for the above post must possess a Bachelor's and Master's Degree (or only a Bachelor's Degree with a grade above 8.5/10) from a recognized University in one of the following fields: General Agriculture or Animal Production or Crop Production or Veterinary Medicine or Biology or other related field and want to carry out research on alternative forage plants and ruminants. In addition, candidates must have (a) excellent knowledge of the Greek language (level C1-C2) due to the need of frequent contact with farmers (applications without that are not accepted) (b) a very good knowledge of the English language (level C1-C2), (c) a driving license, while previous research experience is considered an additional qualification.</p>	
<b>Research Advisor:</b>		
<b>Name/Surname:</b>	Ouranios Tzamaloukas,	
<b>Position:</b>	Associate Professor	

**Email:** [ouranios.tzamaloukas@cut.ac.cy](mailto:ouranios.tzamaloukas@cut.ac.cy),

## Doctoral Vacancy Announcement form

<b>Research Topic Title:</b>	Spectroscopic and Chromatographic Study of Bioactive/Anticancer Microcomponents of Olive Oil
<b>No. of Openings:</b>	1
<b>Description:</b>	Olive oil constitute the basis of the Mediterranean diet, and is intertwined with the history, development and culture of Cyprus. Although olive oil mostly consists of components such as triglycerides of fatty acids, it also contains notable amounts of microcomponents such as phenolic molecules which have antioxidant, chemotherapeutic and anticancer properties. Methodologies for their isolation will be developed while characterization studies will be conducted using mainly chromatographic and spectroscopic techniques.
<b>Funding:</b>	Currently, there is no scholarship for this position. Partial financial support there may be offered for candidates qualified to (a) offer work as teaching assistants, (b) to receive internal scholarships awarded by the university on the basis of their excellence, and (c) participate in future research programs related to this field
<b>Required Qualifications:</b>	Candidates for the above position must hold a Bachelor's and Master's Degree from an accredited University in one of the following fields: Chemistry, Food Chemistry, Food Science or other related discipline. Previous relevant research experience will be considered. In addition, candidates must have a very good command of the English language. The evaluation may also include a personal interview of the candidates.  Candidates must provide the names of three professors from academia who can provide recommendations for the candidate when asked
<b>Research Advisor:</b>	
<b>Name/Surname:</b>	Chryssoula Drouza
<b>Position:</b>	Associate Professor
<b>Email:</b>	<a href="mailto:chryssoula.drouza@cut.ac.cy">chryssoula.drouza@cut.ac.cy</a>