



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5844

BANDO DI CONCORSO PER 1 ASSEGNO DI RICERCA DI TIPO B DELLA DURATA DI 12 MESI PER LA COLLABORAZIONE AD ATTIVITÀ DI RICERCA NELL'AREA SCIENTIFICO-DISCIPLINARE DELLE SCIENZE AGRARIE E VETERINARIE

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Biomediche, Chirurgiche ed Odontoiatriche**

Scientist- in - charge: ____ Prof. Iriti Marcello____

Gultakin Hasanaliyeva

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Hasanaliyeva
Name	Gultakin

PRESENT OCCUPATION

Appointment	Structure
Research Fellow	Nottingham Trent University

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Biology	Baku State University	2010
Master	Mycology	Baku State University	2012
PhD	Agriculture and Food Science	Newcastle University	2018

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City
2019-2022	Associazione Italiana per la Protezione delle Piante (AIPP)	Italy



2022-2023	Crop Health and Protection (CHAP)	UK
2022-2023	American Society for Nutrition (ASN)	USA

FOREIGN LANGUAGES

Languages	level of knowledge
English	C2
Turkish	C2
Russian	B2
Italian	A2

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2018	Travel award from Newcastle University for attending “The N8 AgriFood Conference 2018” in Liverpool, UK
2013-2018	PhD scholarship (Government of Azerbaijan and Sheepdrove Trust, UK)

TRAINING OR RESEARCH ACTIVITY

<p>Academic experinece:</p> <ul style="list-style-type: none">• Research Assitant, Newcastle University, UK• Postdoctoral researcher, Universita Cattolica del Sacro Cuore, Italy• Visiting researcher, INRA, FR• Research Fellow, Nottingham Trent University, UK <p>description of activities:</p> <ul style="list-style-type: none">• Designing and conducting field trials for various crop projects (etc. grapes, cereals, potato)<ul style="list-style-type: none">○ Phenological assessments○ Diseases assessments○ Biomass assessments• Glasshouse and Controlled Environment Growing systems (etc. hydroponic/aeroponic and soil cultivation)<ul style="list-style-type: none">○ Custom made nutrient (Hoagland solution) recipe trials for nutrient uptake sensor development (lettuce)○ LED light recipes for improvement of plant growth performance and crop quality (tomato) (modular container vertical farm)○ Plant screening and phenotyping (Phenospex)○ Leaf gas exchange and chlorophyll A measurements (LI-COR)○ Biofortification through leave and root applications○ Drought stress evaluation by application of algae derived biostimulants• Conducting laboratory analysis using referenced methodologies
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- Sample preparation (fresh/lyophilized)
- Sample extraction for phytochemicals (etc. total phenolics, antioxidants, glucosinolates)
- QTOF-LCMS, UV-HPLC, GC-MS and spectrophotometric analysis
- RNA extraction and qPCR analysis
- Data analysis
 - Statistical interpretation of results/dataset using different RStudio packages (etc. PCA, 'nlme', 'ggplot2')
 - Meta-analysis (weighted and unweighted)
- Formal activities
 - monthly/quarterly project meetings with stakeholders
 - preparing project reports
 - dissemination activities (seminars, newsletters/fact-sheets, publications, conferences)

PROJECT ACTIVITY

Year	Project
2019-2021	Biovine (EU funded)
2021-2022	Novaterra (EU funded)
2022-2023	CleanGrow (Innovate UK)

PATENTS

Patent
“Development of IoT based automated monitoring and controlling system for Big-Data acquisition in vertical farming” Strategic Research Funding, Nottingham Trent University, UK (£10,000) - Co-I
“Effect of AI developed LED light and Nutrient Recipes on growth and nutritional quality of Tomato cultivar grown Vertically” Sustainable Research Talent Fund, Nottingham Trent University, UK (£10,000) - PI

CONGRESSES AND SEMINARS

Date	Title	Place
June 2023	Smart Agriculture and Future Crops (Summer School) - 2hr seminar talk	Nottingham Trent University, UK
November 2022	EFFoST 2022 Conference “Phenolic compound and antioxidant concentrations in Lettuce grown under AI developed LED light recipes” - oral presentation	UCD, Ireland
2021	1st International Electronic Conference on Agronomy ““Exploit biodiversity in viticultural systems to reduce pest damage and pesticide use, and increase ecosystem services provision – BIOVINE” – power	Online



	point presentation	
2020	Convegno Conavi 2020 “Soil covering and biofumigant effect of <i>Armoracia rusticana</i> against spore dispersal and inoculum viability of <i>Plasmopara viticola</i> ” – poster presentation	Universita degli studi di Udine, Italy
2018	The N8 AgriFood Conference 2018: People, Health and Food systems "Effect of Production methods on Nutritional quality of Cretan indigenous grape varieties" – poster presentation	Liverpool, UK
2016	X International Symposium on Grapevine Physiology and Biotechnology “Effect of different grapevine management practices on fruit yield and quality of table grapes and wine: a systematic literature review and meta-analyses” -poster presentation	Verona, Italy

PUBLICATIONS

Articles in reviews
Hasanaliyeva, G., et al. “Effects of Agricultural Intensification on Mediterranean Foods and Diets; a Critical Review”. <i>Foods</i> (submitted-under the review)
Hasanaliyeva, G., Si Ammour, M., Yaseen, T., Rossi, V. and Caffi, T. (2022) Innovations in Disease Detection and Forecasting: A Digital Roadmap for Sustainable Management of Fruit and Foliar Disease. <i>Agronomy</i> , 12(7), p.1707. https://doi.org/10.3390/agronomy12071707
Rempelos, L., et al. (2022) Diet and food type affect urinary pesticide residue excretion profiles in healthy individuals: Results of a randomized controlled dietary intervention trial. <i>The American Journal of Clinical Nutrition</i> , 115(2), pp.364-377. https://doi.org/10.1093/ajcn/nqab308
Rempelos, L., et al. (2022). Diet, but not food type, significantly affects micronutrient and toxic metal profiles in urine and/or plasma; a randomized, controlled intervention trial. <i>The American journal of clinical nutrition</i> , 116(5), pp.1278-1290.
Hasanaliyeva, G., et al (2021) Effect of organic and conventional production methods on fruit yield and nutritional quality parameters in three traditional cretan grape varieties: Results from a farm survey. <i>Foods</i> , 10(2), p.476. https://doi.org/10.3390/foods10020476
Barański, M., Średnicka-Tober, D., Rempelos, L., Hasanaliyeva, G., et al. (2021) Feed composition differences resulting from organic and conventional farming practices affect physiological parameters in Wistar rats—results from a factorial, two-generation dietary intervention trial. <i>Nutrients</i> , 13(2), p.377. https://doi.org/10.3390/nu13020377
Wang, J., Barański, M., Hasanaliyeva, G., et al. (2021) Effect of irrigation, fertiliser type and variety on grain yield and nutritional quality of spelt wheat (<i>Triticum spelta</i>) grown under semi-arid conditions. <i>Food Chemistry</i> , 358, p.129826. https://doi.org/10.1016/j.foodchem.2021.129826
Hasanaliyeva, G., et al. (2020) Effects of production region, production systems and grape type/variety on nutritional quality parameters of table grapes; results from a UK retail survey. <i>Foods</i> , 9(12), p.1874.



https://doi.org/10.3390/foods9121874
Wang, J., Hasanalieva, G., et al. (2020) Effect of wheat species (<i>Triticum aestivum</i> vs <i>T. spelta</i>), farming system (organic vs conventional) and flour type (wholegrain vs white) on composition of wheat flour; results of a retail survey in the UK and Germany-1. Mycotoxin content. <i>Food chemistry</i> , 327, p.127011. https://doi.org/10.1016/j.foodchem.2020.127011
Wang, J., Hasanalieva, G., et al. (2020) Effect of wheat species (<i>Triticum aestivum</i> vs <i>T. spelta</i>), farming system (organic vs conventional) and flour type (wholegrain vs white) on composition of wheat flour-results of a retail survey in the UK and Germany-3. Pesticide residue content. <i>Food chemistry: X</i> , 7, p.100089. https://doi.org/10.1016/j.fochx.2020.100089
Wang, J., Chatzidimitriou, E., Wood, L., Hasanalieva, G., et al. (2020) Effect of wheat species (<i>Triticum aestivum</i> vs <i>T. spelta</i>), farming system (organic vs conventional) and flour type (wholegrain vs white) on composition of wheat flour-Results of a retail survey in the UK and Germany-2. Antioxidant activity, and phenolic and mineral content. <i>Food chemistry: X</i> , 6, p.100091. https://doi.org/10.1016/j.fochx.2020.100091
In progress:
Exploiting physical and biofumigant effect of selected cover crops as a tool for integrated pest management against grapevine foliar diseases in northern Italy (<i>Main authorship, journal article, in a stage of preparation</i>)
Enhancement of growth and nutritional quality parameters of hydroponically grown tomato plant under different LED Lighting and Nutrient Recipes using an AI models (<i>Main authorship, journal article, in a stage of preparation</i>)
“Effect of different grapevine management practices on fruit yield and quality of table grapes and wine: a systematic literature review and meta-analyses” (<i>Main authorship, journal article, in a stage of preparation</i>)

OTHER INFORMATION

Soft skills: Microsoft Office (Word, Excel, PowerPoint, Access), LaTeX, One Drive, Zoom, Microsoft Teams; R studio, SPSS, Python
Reviewer activities in journals: Agronomy (mdpi), European journal of plant pathology

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

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Place and date: ___03/09/2023___, ___United Kingdom___