

How to promote PhD research through Erasmus ICM projects

David Pipoyan

Doctor in food science and nutrition



Tuscia Erasmus+KA107 Credit Mobility Project



DEP. OF **AGRICULTURE AND FOREST SCIENCES**







DEP. OF ECOLOGY AND BIOLOGY













Erasmus+KA107 Credit Mobility Project

Project was implemented between CENS/ISEC NAS RA and University of Tuscia

- opportunity for PhD students to study and train abroad;
- enrich cultural and professional level;
- development new multidisciplinary skills,
- joint publication.









DAFNE

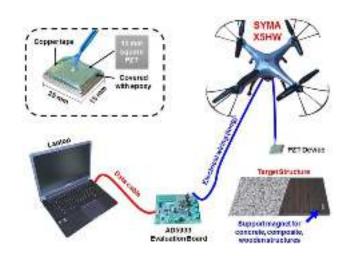
Dipartimento di Scienze Agrarie e Forestali (Department of Agriculture and Forest Sciences)

GIS and remote sensing for the study of crop canopy

Supervisor-Professor Raffaele CASA







Unmanned Aerial Vehicles (UAVs)

Advantages of using UAVs

Low cost

High resolution images

Can fly at variety of altitudes depending on data collection needs

Quick availability of row data

Flexible flight planning (capture time, resolution, survey area shape)

Easy mobilization to any time

Light weight...



Urban areas





Mapping

Soil degradation

Water



Unmanned Aerial Vehicles (UAVs)

- UAVs (principles of work with UAVs)
- Acquisition of UAVs images
- Programs and techniques of work with UAV images
- Image preprocessing



Acquisition of statistical skills





DIBAF
INNOVATION IN
BIOLOGICAL SYSTEMS,
FOOD AND FORESTRY





With Dr. Roberto Moscetti, PhD



Acquisition of statistical skills

- populations and parameters and how they differ from samples and statistics,
- confidence intervals and their interpretation,
- hypothesis testing procedures, including the critical value approach and the *P*-value approach,,
- tests of proportion

Basic of Statistics

Minitub

 Statistical program for date analysis

R ststistic

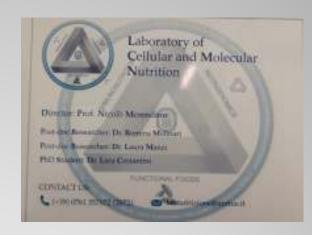
 R is a language and environment for statistical computing and graphics



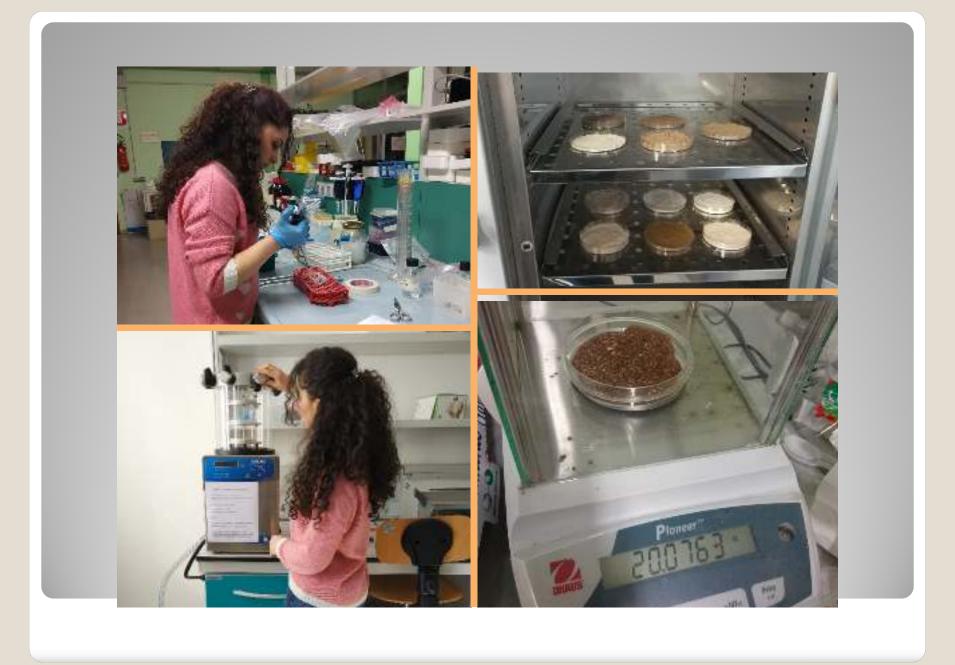
INVESTIGATION OF ANTIOXIDANT CAPACITY OF ARMENIAN CROPS AND HONEY







LABORATORY OF CELLULAR AND MOLECULAR NUTRITION





LABORATORY OF FUNCTIONAL FOOD









LABORATORY OF AGRICULTURAL CONTAMINATION (DIBAF)







ICP OES (INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETER), OPTIMA 8000DV



ICP OES. Theoretical training

· ICP OES

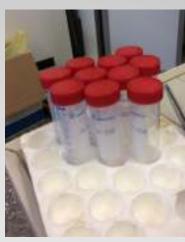
• Testing of soil samples

· ICP OES

• Data analyses

Detection of Hg in soil samples from Armenia

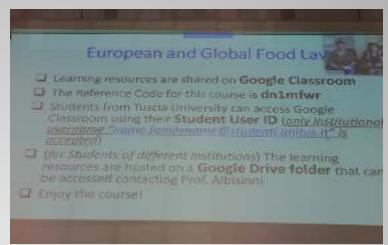






MASTER CLASSESS FOR PhD STUDENTS

- Food science
- GIS and remote sensing
- Experimental data management
- Global food law
- Dietetics
- Functional food





Erasmus project as a link and opportunity

With Dr. Carlo Calfapietra and Dr. Chiara Baldaccini (National Research Council (CNR), Institute of Agro-Environmental & Forest Biology (IBAF))















Sapienza – Università di Roma







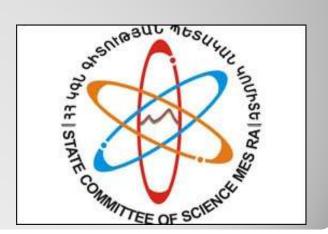
Benefits and outcomes Joint publications



Joint projects







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Grazie per l'attenzione Thanks for your attention