

Mediterranean Agronomic Institute of Chania

CURE X

H2020-MSCA-RISE-2016

Funded by the European Union







> provides postgraduate MSc programmes:

Business Economics & Management GeoInformation in Environmental Management Horticulture Genetics & Biotechnology Food Quality & Chemistry of Natural Products Sustainable Agriculture

> location -> Western Crete

- ≻ staff number: ~50
- Activities: Education / Research / Cooperation in the Med









CURE-XF Kick-off Meeting CIHEAM Bari 28-29 September, 2017







1st Year Students

	Title	Last	First	Country	Email
1	IVIS.	Awad	Sama	Palestinian Territories	sama.awad30@yahoo.com
2	Mr.	Bitar	Ara	Armenia	arabitar7@gmail.com
3	Ms.	Hadded	Fadoua	Tunisia	daddou.hadded@yahoo.fr
4	Ms.	Khechmar	Souheyla	Algeria	kh.souhila@live.fr
5	Ms.	Mantonanaki	Antonia	Greece	mantonia276@hotmail.com
6	Mr.	Medawar	Gilbert	Lebanon	medawar.gilbert@gmail.com
7	Mr.	Theodorou	Andreas	Greece	theodoroua@gmail.com
8	Mr.	Yacine	Touat	Algeria	yacine.touat87@yahoo.com
9	Mr.	Zaritskiy	Dmitry	Russia	zarbark88@gmail.com



Description: Replication of positive-strand RNA viruses is a process that involves the virus genome, virus proteins and host factors. We have identified two tomato protein interactors to PepMV CP & p25.

Funded Projects on Research: Host Proteins involved in the replication of Pepino Mosaic Virus (Solanum muricatum) Funding Resource: BILATERAL GREECE SPAIN / FFET 074-3 Period: 04.05.06 / 2 years

Collaborators:

Dr. M. Aranda (CSIC, Murcia, ES) Dr. T. Canto (CSIC, Madrid, ES) Dr. V. Medina (University of Lleida, ES)

Universiteit Leiden







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University of Lleida

MARIE CURIE ACTIONS

Relevant and indicative MSc & PhD theses

1. A Yeast Two-Hybrid System Approach to Identify Tomato Proteins Interacting with Pepino Mosaic Virus (PepMV) Proteins -[R. VEIGA (Portugal / 2006-07] – PhD, University of Zurich, Switzerland 2. In vivo and in vitro experimentation to reveal tomato-PepMV protein interactions -

[M. GHITA (Romania / 2007-08] – PhD student, University of Nottingham, UK

3. Identification of the role of tomato proteins on PepMV replication and suppression of RNA silencing -[M. MATTHIOUDAKIS (Greece) / 2008-12] – PhD, Aristotle University of Thessaloniki, Greece











Description: Post-transcriptional gene silencing (PTGS) degrades RNA in a sequence specific manner and is utilized by plants as a natural defence mechanism against virus invaders. We have elucidated the genome of ToCV and identified a CYSDV-encoded suppressor of PTGS.

Funded Projects on Research:

1) Diagnosis, genome analysis and replication studies of whitefly-transmitted criniviruses in protoplasts / ENTER. Funding Resource: **FFET**, **04 EP 01**

Period: 2006-2008/ 2 years

2) **BIOALEUROIOI**. Funding Resource: *II***ET-ESPA**

Period: 2011-2014/3 years

Collaborators:

- Dr. K. Kalantidis (Univ. Crete/Heraklion, GR)
- Prof. Dr. K. Katis (Aristotle University of Thessaloniki, GR)
- Dr. R. Coutts (Imperial College, UK)
- Dr. J. Navas Castillo (CSIC, Malaga, ES)

Relevant and indicative MSc thesis

- Detection, complete nucleotide sequence and construction of full cDNA clones of a Greek isolate of Tomato chlorosis virus (ToCV) – [A. KATAYA (Egypt) / 2007, PhD, University of Stavanger, Norway]
- Preliminary screening of Cucurbit yellowing stunting disorder virus RNA2-encoded post transciptional gene silencing suppressors - [M. SULIMAN (Egypt) / 2010, PhD, Max Planck Institute, Koln, Germany]



















FUNDING: Crete Innovation Canter / EEA Grants (2010-2012)

Action 3.3: Pilot applications of diagnostic methodologies for CTV diagnosis









Main activities on Xylella fastidiosa

- > Projects : Xf_Actors [H2020]
- **>** Research activities: Xf Vectors
- **>** Publications:

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MAICh Campus

Microbiology Lab



