

Contact: harissa@agr.hr www.agr.hr



Project "Harmonization and Innovation in PhD Study Programs for Plant Health in Sustainable Agriculture —HarISA " (598444-EPP-1-2018-1-HR-EPPKA2-CBHE-JP)

## **Final Conference**

Novi Sad, 6<sup>th</sup>-8<sup>th</sup> September 2022

# WP 3: Curriculum of the Joint PhD Study Program

## **WP3 Leaders:**

Dr Aleksandra Ignjatović- Ćupina, Full Professor

University of Novi Sad, Faculty of Agriculture, Serbia, <a href="mailto:cupinas@polj.uns.ac.rs">cupinas@polj.uns.ac.rs</a>

Dr Eustachio Tarasco, Associate Professor,

University "Aldo Moro" Bari, Italy, eustachio.tarasco@uniba.it





























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## PRESENTATION CONTENT:

- TASKS
- WP3 STRUCTURE: SCIENTIFIC GROUPS, MEMBERS AND CONTRIBUTORS
- CURRICULUM- COURSES
- TEACHERS' COMPETENCES
- DIDACTIC MATERIAL





























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## WP3: DEVELOPMENT-Improving the scientific contents





























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## **WP3 TASKS**

Work Package/Out come ref.nr.:	Title:	Type of Outcome:
3.1.	Workshops organization	event, report
3.2.	Identification of scientific needs and research topics for PhD thesis and proposal of joint mentorship	report
3.3.	Improvement of the existing courses	teaching material, learning material, report
3.4.	Development of new courses related to plant health	teaching material, learning material
3.5.	Preparation of joint teaching material	teaching material, learning material
3.6.	Scientific conference organization	event, report



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## **WP3 ACTIVITY ACHIEVEMENTS**

- analyzed the existing courses taught at PIs, by comparison of:
  - contents
  - methods,
  - tools,
  - human capacities,
  - and learning outcomes;
- identified the teaching needs;
- proposed student and staff mobility to WP5;





























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## **WP3 ACTIVITY ACHIEVEMENTS**

- improved the existing courses, developed new courses (

  ⟨⇒ WP2, SB⟩ and prepared Joint Curriculum: Book of courses (syllabus) and Book teachers prepared;
- developed the joint teaching material for the Joint Curriculum (available on Harlsa Repository):
  - Protocols, Guidelines, Methods
  - Books
  - Dissertations
- organized **scientific conference** (PhD students will present their research results and activities during their mobility).





























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## WP3 ACTIVITY ACHIEVEMENTS

## 🕯 WP3 workshops: 7

5 on-site: - Zagreb, February 26th, 2019;

- Podgorica, June 10-11, 2019;

- Belgrade, October 28-29, 2019;

- Durres, March, 29-30, 2022;

- Novi Sad, 6-8 September 2022

· 2 on-line: - April 27-29, 2020;

- January 19th, 2021;

## Meetings with other WP and PMB: 5 on-line

- WP3+WP5: June 7th 2021;

- WP3+PMB: July 16th, 2021;

- WP3+WP2: February 7th 2022;

- WP3+PMB: June 1st 2022;

- WP3+PMB: August 31st 2022



























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## **WP3 STRUCTURE**

appointed at Kick off meeting



Eustachio Tarasco & Aleksandra Ignjatović Ćupina

- > WP3 Coordinators (1 representative teacher per each PI)
  - WP3 Members: 2-3 teachers per each PI

2 students per each PI

70 active WP3 members (46 teachers + 24 students)





























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## **WP3 STRUCTURE**

## >SCIENTIFIC GROUPS (SGs) AND SG LEADERS

- 1. Diagnosis in plant health and IPM SG1 Leader Maja Čačija (FAZ)
- 2. Sustainable use of pesticides SG2 Leader Matteo Spagnuolo (UNIBA)
- 3. Plant feeders SG3 Leader Ivana Majić (FAZOS)
- 4. Plant pathology SG4 Leader Sotiris Tjamos (AUA)
- 5. Weed science SG5 Leader Maja Šćepanović (FAZ)
- 6. Mycotoxins and food safety SG6 Leader Dimitris Tsitsigiannis (AUA)
- 7. General contents of transversal interests –SG7 Leader Ana Mandić (SVEMO)





























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## WP3 MEMBERS AND CONTRIBUTORS

SG	TEACHERS	STUDENTS	TOTAL
1. Diagnosis in plant health and IPM	9	2	11
2. Sustainable use of pesticides	8	6	14
3. Plant feeders	8	6	14
4. Plant pathology	6	9	15
5. Weed science	10	4	14
6. Mycotoxins and food safety	8	2	10
7. General contents of transversal interests	14	1	15
TOTAL	63	30	93

## Mailing list with all contacts created and shared to members and contributors



























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## PhD Study Program for Plant Health in Sustainable Agriculture

## **CURRICULUM**





























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#### WP2+WP3

TYPE OF ACTIVITY	ECTS IN TOTAL		
Tooching	min. 25	Mandatory -general topics (SG7)	10
Teaching	IIIII. 25	Elective courses	min 15
Research (including (production of scientific papers, PhD thesis, other research activities):	max. 155	Active participation to conferences, trainings etc.	5-10
TOTAL	180		





























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## **COURSES AND COURSE LEADERS**

## SG1. Diagnosis in plant health and IPM:

- 1) Advanced diagnostic methods and techniques for detection of prejudicial and beneficial organisms (ADM&TDO) Incharged course leader Prof. Epimenondas Paplomatas (AUA)
- 2) Integrated approach to surveillance of prejudicial organisms affecting plant health (IAS) Course leaders: Prof. Mirha Đikić (UNSA) and Prof. Karolina Vrandečić (FAZOS)
- 3) Control of quarantine prejudicial organisms, managing of non-native beneficial organisms and evaluation of risk assessment based on EU protocols (CQPO, MNNB & ERA) Course leaders: Prof. Enirico de Lillo (UNIBA) and Francesco Porcelli (UNIBA)





























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### **COURSES AND COURSE LEADERS**

## SG2. Sustainable use of pesticides - SG 2

- 1) Plant Protection Products in Sustainable Agriculture (PPPSA) Prof. Slavica Vuković (UNS)
- 2) Environmental fate of pesticides (EFP) Prof. Matteo Spagnuolo (UNIBA) and Prof. Magdalena Cara (AUT)
- 3) Toxicology and Ecotoxicology of pesticides (TEP) Prof. Dragica Brkić (UB)





























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### **COURSES AND COURSE LEADERS**

## SG3. Plant feeders - SG 3, leader Ivana Majić (FAZOS):

- 1) Advanced techniques in plant feeders (ATPF) Prof. Biljana Vidović (UB)
- Frontiers in invertebrate pest and resistance management (FIPRM) Prof. Anita Liška(FAZOS)
- 3) Advanced invertebrate pathology (AIP) Prof. Eustachio Tarasco (UNIBA)
- 4) Invasive alien arthropods (IAP) Prof. Francesco Porcelli (UNIBA)
- 5) Vectors of plant pathogens (VPP) Prof. Olivera Petrović Obradović (UB)
- 6) Integrated Management of urban pests (IMUP) Prof. Aleksandra Ignjatović Ćupina (UNS)

























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## **COURSES AND COURSE LEADERS**

## SG4. Plant pathology - SG 4, leader Sotiris Tjamos (AUA):

1) Molecular Plant Microbe Interactions (MPMI) – Prof. SotiriosTjamos (AUA) and Rita Milvia De Miccolis Angelini (UNIBA)

## SG5. Weed science - SG 5, leader Maja Šćepanović (FAZ):

- 1) Weed management in precision agriculture (WMPA) Prof. Dragana Božić (UB)
- 2) Modelling in Weed Science (MWS) Prof. Maja Šćepanović (FAZ)
- 3) Invasive plant species (IPS) -Prof. Sava Vrbničanin (UB)

## SG6. Mycotoxins and food safety - SG 6, leader Dimitrios Tsitsigiannis (AUA):

1) Mycotoxins and food safety (MFS) - Prof. Dimitris Tsitsigiannis (AUA) and Donato Gerin (UNIBA)



























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### **COURSES AND COURSE LEADERS**

SG7. General contents of transversal interest - SG 7, leader Ana Mandić (SVEMO):

- 1) Principles of Scientific Work in Bio-science (PSWB) Prof. Franco Nigro (UNIBA)
- 2) Bio-diversity and bio-indicators in sustainable agriculture (BD&BI)— Prof. Mirjana Brmež (FAZOS)
- 3) GIS & Spatial Data Analysis (GIS & SDA) Prof. Melisa Ljuša (UNSA)
- 4) Bio-informatics (BINF) Prof. Jasmin Grahić (UNSA) and Arnela Okić (UNSA)
- 5) Knowledge and management of research funding systems (KMRFS) Prof. Renata Bažok (FAZ)





























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Type of Courses	Courses	ECTS	Workload (Lectures+ Other activities)
MANDATORY (3 courses,	1. Principles of Scientific work in bioscience	3	20+55=75
total 10 ECTS)	2. Bio-informatics	3	20+55=75
	3. Knowledge and management of research funding systems	4	30+70=100
ELECTIVE (optional No.	All other courses -option a)	3	20+55=75
of courses, min 15 ECTS	-option b)	4	30+70=100

TOTAL Min 25



























Study program		International joint study PhD study program in Plant Health for Sustainable Agriculture		
Course title	Course title		Integrated approach to surveillance of prejudicial organisms affecting plant health	
Course code		IAS		
Course leader		Mirha Đikić (UNSA)	, Karolina Vrandečić (FAZOS)	
Responsible PI University/Faculty/Department/C	Country	UNSA FAZOS		
•	Other teachers and related PIs (University University/Faculty/Department/Country)		Ivan Juran (FAZ), Anita Liška (FAZOS), Aleksandra Konjević (UNS), Teofil Gavrić (UNSA), Franco Nigro (UNIBA), Igor Pajović (UoM), Milan Ivanović (UB), Mihaela Kavran (UNS), Vera Stojšin (UNS)	
Credits (ECTS)	4	Course status	Elective	
Specific entry requirements	none			
Aim of the course and student 's competences organisms affecting protection: knowledge integral surveillan		ng plant health and its ledge, skills and comp nce strategies, protoco	g of integrated approach to surveillance of prejudicial importance for sustainable agriculture and environmental etences (know how) for selection and implementation of ls, monitoring methods and techniques, perspectives of ol techniques in sustainable agriculture.	
Learning outcomes	soil as well as define metho 2. Analyze and identify reasons and weeds. 3. Design and compare plant p production for their efficien safety. 4. Explain the principles and even		the appropriate methods of monitoring of plant materials and ler to determine the relevance of plant prejudicial organisms. It is occurrence and spreading of certain plant pathogens, pests on measures in conventional, integrated and organic agricultural regard to environmental impact, and operator and consumer the potentiality of application of precision agriculture in IPM. laboratory research in the area of IPM.	

#### **Course content:**

Theoretical lessons:

Integrated pest management approach in sustainable agriculture; protocols for surveillance of plant pathogens, pests, weeds and beneficial organisms; techniques and methods of monitoring and interpretation of monitoring results; preparedness, early detection, signalization for outbreak prevention and control of prejudicial organisms; alternative control techniques in sustainable agriculture; case studies on actual topics.

Practical classes: laboratory exercises

Training and application of different monitoring and control methods and techniques; field and laboratory exercises on targeted organisms.

#### Literature and other learning material:

- 1. Altieri M.A. Nicholls C.I. (2004): Biodiversity and Pest Management in Agroecosystems. Second Edition. Food Products Press, an imprint of The Haworth Press, Inc.236 pp.
- 2. Walter, G. H., (2005): Insect pest management and ecological research. Cambridge University Press. 387 pp.
- 3. Schauff ME (2001) Collecting and preserving insects and mites: techniques and tools. [Updated and modified WWW version of Steyskal GC, Murphy WL, Hoover EH (Eds) (1986) Insects and mites: techniques for collection and preservation.] Agricultural Research Service, USDA, Miscellaneous Publication 1443: 1–103. http://www.ars.usda.gov/SP2UserFiles/ad hoc/12754100CollectingandPreservingInsectsandMites/collpres.pdf
- 4. Leather, S. R. (2005): Insect Sampling in Forest Ecosystems. Blackwell Science Ltd
- 5. Gibb T.J., Oseto C.Y. (2006): Arthropod Collection and Identification Field and Laboratory Techniques. Elsevier Academic Press Academic Press, 311 pp.
- 6. Dyck V.A., Hendichs J., Robinson A.S. (2005): Sterile Insect Technique Principles and Practice in Area-Wide Integrated Pest Management. Joint FAO/IAEA Programme, Vienna, Austria. Springer, Netherlands. 787 pp
- 7. Horowitz A.R., Ishaaya I. (2004): Insect Pest Management: Field and Protected Crops. Springer-Verlag Berlin Heidelberg. 344 pp.
- 8. Rechcigl, J. E., Rechcigl N. A. (Eds) (2000): Insect pest management: techniques for environmental protection. Lewis Publishers- an imprint of CRC Press LLC. 408 pp
- 9. Altieri M.A. Nicholls C.I., Fritz M.A. (2005): Manage insects on your farm: a guide to ecological strategies. Sustainable Agriculture Network handbook series; bk. 7, 119 pp.
- 10.Kogan M., Jepson P. (Eds) (2007): Perspectives in ecological theory and integrated pest management. Cambridge University Press, UK, 570 pp
- 11. Horne P.A., Page J. (2008): Integrated pest management for crops and pastures. Landlinks Press, 119 pp.
- 12. Flint M.L., Van den Bosch R. (1981): Introduction to Integrated Pest Management. Plenum Press, New York, 240 pp.
- 13. Aldrich, R.J., Kremer, R.J. (1997). Principled in Weed Management, Iowa State University
- 14. Naylor, R.E.L. (2002). Weed management Handbook. British Crop Protection Council

Number of classes					
Lectures (teoretical, practical lessons, seminars = contact hours)  30  Student research work:  Other activities (preparation for exam, literature research, preparation of seminars etc):  70					
Teaching methods: PPT presentations, other didactic tools, demonstrations in field and laboratory, seminars /round tables/workshops					
Evaluation (max. 100 points)					
Pre-exam obligations	Points	Final exam	Points		

Pre-exam obligations	Points	Final exam	Points
Activity during lectures (=active class participation)	15	Written exam	20
Practical classes (= Practical work)	15	Oral exam	20
Colloquium (= preliminary exam)			
Seminar papers (=Seminar(s))	30		

A way to form a final grade:

Final grade - formed based on the sum of acquired points, with the minimum of 11/20 required points for both written and oral exam.



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## PhD Study Program for Plant Health in Sustainable Agriculture

## **TEACHERS AND THEIR COMPETENCES**



























## SG 1. Diagnosis in plant health and IPM

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)
Advanced diagnostic methods	Epameinondas Paplomatas (AUA)	UNIBA: Stefania Pollastro
and techniques for detection of		FAZ: Maja Čačija (FAZ)
prejudicial and beneficial		AUA: Dimitris Tsitsigiannis, Sotiris
organisms -ADM&TDO		Tjamos, Elisavet Chatzivassiliou,
		Aliki Tzima, Dionysios Perdikis,
		Ioannis Giannakou
		UoM: Jelena Zindović
		AUT: Magdalena Cara
		UNS: Dragana Budakov 1+ 11 =12
Integrated approach to	Mirha Đikić (UNSA)	FAZ: Ivan Juran
surveillance of prejudical	Karolina Vrandečić (FAZOS)	FAZOS: Anita Liška,
organisms affecting plant	,	UNS: Aleksandra Konjević
health - IAS		UNSA: Teofil Gavrić
		UNIBA: Franco Nigro
		UoM: Igor Pajović
		UB: Milan Ivanović
		UNS: Mihaela Kavran, Vera Stojšin
		2+9=10
Control of quarantine	Enrico de Lillo (UNIBA)	UNS: Aleksandra Konjević,
prejudicial organisms,	Francesco Porcelli (UNIBA)	Ferenc Bagi, Mila Grahovac
managing of non-native	, ,	FAZ: Ivana Pajač Živković
beneficial organisms and		FAZOS: Jasenka Ćosić
evaluation of risk assessment		UB: Aleksandra Bulajić
based on EU protocols - CQPO,		UNIBA: Roberta Spanò
MNNB & ERA		2+7=9

## SG-2. Sustainable use of pesticides

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)
Plant Protection Products in	Slavica Vuković (UNS)	FAZ: Renata Bažok
Sustainable Agriculture - PPPSA		UNIBA: Matteo Spagnuolo,
		Franco Faretra
		AUT: Magdalena Cara
		UoM: Nedeljko Latinović
		1+5=6
Environmental fate of pesticides -	Matteo Spagnuolo (UNIBA)	UB: Dragica Brkić
EFP	Magdalena Cara (AUT)	SVEMO: Ivan Ostojić
		UNS: Sanja Lazić
		2+3=5
Toxicology and Ecotoxicology of	Dragica Brkić (UB)	UNIBA: Matteo Spagnuolo
pesticides - TEP		UNS: Sanja Lazić
		AUT: Magdalena Cara
		1+3=4

## SG 2 Plant foodors

SG-3. Plant feeders			
COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)	
Advanced techniques in plant	Biljana Vidović (UB)	FAZOS: Mirjana Brmež	
feeders - ATPF	, ,	FAZ: Ivana Pajač Živković	
iccucis - Air i		UNSA: Nedžad Karić	
		AUA: Ioannis Giannakou	
		UNIBA: Daniele Cornara 1+5 =6	
Frontiers in invertebrate pest	Anita Liška (FAZOS)	FAZOS: Ankica Sarajlić, Vlatka Rozman	
and resistance management -		FAZ: Darija Lemić	
		UB: Anđa Radonjić	
FIPRM		UNIBA: Giovanni Tamburini 1+5=6	
Advanced Invertebrate	Eustachio Tarasco (UNIBA)	FAZOS: Ivana Majić	
Pathology - AIP		FAZ: Maja Čačija	
Tuthology 7th		AUA: Ioannis Giannakou	
		UB: Nikola Grujić 1+4=5	
Invasive Alien Pests - IAP	Francesco Porcelli (UNIBA)	FAZ: Ivana Pajač Živković	
		FAZOS: Ankica Sarajlić	
		UNS: Aleksandra Konjević	
		UB: Dušanka Jerinić-Prodanović	
		UoM: Snježana Hrnčić	
		SVEMO: Mladen Zovko 1+6=7	
Vectors of plant pathogens- VPP	Olivera Petrović-Obradović (UB)	FAZ: Tanja Gotlin Čuljak	
		UoM: Sanja Radonjić	
		FAZOS: Ivana Majić	
		UNIBA: Daniele Cornara 1+4=5	
Integrated management of	Aleksandra Ignjatović Ćupina	UNSA: Nedžad Karić	
urban pests - IMUP	(UNS)	FAZ: Aleksandar Mešić	
		UB: Draga Graora	
		UoM: Igor Pajović	
		UNIBA: Eustachio Tarasco	
		UNS: Aleksandra Petrović <b>1+6=7</b>	

## **SG-4. Plant pathology**

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)
Molecular Plant Microbe	Sotiris Tjamos (AUA)	AUA: Epameinondas Paplomatas,
Interactions - MPMI	Rita Milvia De Miccolis Angelini (UNIBA)	Dimitris Tsitsigiannis
	,	UB: Nataša Duduk
		UNS: Renata Iličić
		UNSA: Arnela Okić
		SVEMO: Ana Crnogorac
		FAZOS: Karolina Vrandečić
		UoM: Jelena Latinović
		2+8=10

## SG-5. Weed science

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)
Weed management in precision	Dragana Božić (UB)	AUT: Skender Varaku
agriculture - WMPA		FAZ: Maja Šćepanović
		FAZOS: Marija Ravlić
		UNSA: Teofil Gavrić
		UNS: Aleksandar Sedlar
		1+5=6
Modelling in Weed Science -MWS	Maja Šćepanović (FAZ)	UNSA: Jasmin Grahić
		UB: Sava Vrbničanin
		UNS: Maja Meseldžija
		1+3=4
Invasive Plant Species - IPS	Sava Vrbničanin (UB)	UNSA: Mirha Djikić
		FAZOS: Renata Baličević
		FAZ: Maja Šćepanović
		UNS: Bojan Konstantinović
		SVEMO: Danijela Petrović
		1+5=6

## SG-6. Mycotoxins and food safety

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER T	TEACHERS (per PI)
Mycotoxins and food safety -MFS	Dimitris Tsitsigiannis (AUA)	AUT:	Magdalena Cara
	Donato Gerin (UNIBA)	UNS:	Ferenc Bagi, Mila Grahovac
		FAZOS:	Karolina Vrandečić
		UB: Nataša Duduk, Ivana Vico	
		SVEMO: Anita Lalić	
		UNIBA:	Simona Sanzani
		UoM:	Jelena Latinović
		AUA:	Eleni Tsiplakou
			2+10=12

## **SG-7.** General contents of transversal interest

COURSE TITLE AND ACRONYM	COURSE LEADER/LEADERS (PI)	OTHER TEACHERS (per PI)
Principles of Scientific Work in Bio-	Franco Nigro (UNIBA)	UNIBA: Antonio Ippolito
science - PSWB		UB: Sava Vrbničanin
		1+2=3
Biodivesity and bioindicators in	Mirjana Brmež (FAZOS)	UNIBA: Tiziana Mascia
sustainable agriculture - BD&BI		FAZ: Darija Lemić
		UB: Dragana Božić,
		Nataša Duduk
		UNIBA: Claudio De Giovanni
		AUT: Shpend Shahini
		UNS: Aleksandra Petrović
		1+7=8
GIS & Spatial Data Analysis - GIS &	Melisa Ljuša (UNSA)	FAZOS: Ivan Plašćak
SDA		UB: Goran Topisirović
		1+2=3
Bio-informatics - BINF	Jasmin Grahić (UNSA)	UB: Ivana Stanković
	Arnela Okić	UNS: Mladen Petreš
		2+2=4
Knowledge and management of	Renata Bažok (FAZ)	UoM: Nedeljko Latinović
research funding systems - KMRFS		UNIBA: Stefania Pollastro
		1+2=3



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PARTNER INSTITUTIONS	Full Professors	Associate Professors	Assistant Professors	Researchers	Research Associate	Research Assistant	TOTAL
FAZ - Zagreb, HR	3	3	2				8
FAZOS - Osijek, HR	7	1	2				10
UNIBA - Bari, IT	5	6	2	3			16
AUA - Athens, GR	3	4	1				8
AUT - Tirana, AL	3						3
UNSA - Sarajevo, BA	2	2	2				6
SVEMO - Mostar, BA	1	1	3				5
UB - Belgrade, RS	10	4	1				15
UNS - Novi Sad, RS	7	5	1		1	1	15
UoM- Podgorica, ME	4		2				6
TOTAL 10 DI	45	26	16	3	1	1	92
TOTAL – 10 PI	48,91%	28.26%	17.39%	3.26%	1.09%	1.09%	





























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PARTNER	FEMALES	MALES	TOTAL		%	
INSTITUTIONS	FEIVIALES	IVIALES	IOIAL	FEMALES	MALES	
FAZ - Zagreb, HR	6	2	8	75.00	25.00	
FAZOS - Osijek, HR	9	1	10	90.00	10.00	
UNIBA - Bari, IT	5	11	16	31.25	68.75	
AUA - Athens, GR	3	5	8	37.50	62.50	
AUT - Tirana, AL	1	2	3	33.33	66.67	
UNSA - Sarajevo, BA	3	3	6	50.00	50.00	
SVEMO - Mostar, BA	3	2	5	60.00	40.00	
UB - Belgrade, RS	12	3	15	80.00	20.00	
UNS - Novi Sad, RS	11	4	15	73.33	26.67	
UoM- Podgorica, ME	4	2	6	66.67	33.33	
TOTAL	57	35	92	61.96%	38.04%	



























Name, family name				ANTONIO IPPOLITO			
Title o	f position				Full	professor	
Scient	ific discipline				Plan	t Pathology	
Acade	mic career:		Year	Institut	ion	Scientific Field	Scientific Discipline
Electio	n to the last positio	n	2005	UNIBA		Plant Pathology	Plant pathology
Doctor	ate		1988	UNIBA		Plant Pathology	Plant pathology
Maste	r of Science		1982	UNIBA		Agronomy	Horticulture
Bachel	or Diploma		-	-		-	-
The lis	st of courses carri	ed out by the teache	r in doctoral st	tudies			
	Course code	Cou	rse title			Name of the st	udy program, the type of study
1.	PSWB	Principles of Scientif	ic Work in Bio-	science	) I	nternational joint study PhD ustainable Agriculture; doc	study program in Plant Health for storal studies-3 <sup>rd</sup> level
2.		Diseases of citrus					Plant protection
Repre	sentative referen	ces (minimum 10 no	more than 20)		·		
1	Sanzani, S. M., Sanzani, S. M.		S., Solfrizzo, N	/І., Ірро	olito,	A. 2021. Control of Penicilli	um expansum by an Epiphytic Basidiomycetous
2							
3							
4	Aloi, F., Riolo, M.	, Sanzani, S.M., Mincuz	zi, A., Ippolito,	A., Sicil	liano,	I., Pane, A., Gullino, M.L., Ca	acciola, S.O. 2021. Characterization of Alternaria
5	Species Associated with Heart Rot of Pomegranate Fruit. Journal of Fungi 7(3),172.  5 Sanzani, S.M., Djenane, F., Incerti, O., Admane, N., Mincuzzi, A., Ippolito, A. 2021. Mycotoxigenic fungi contaminating greenhouse-grown tomato fruit and their alternative control. European Journal of Plant Pathology, 160, 287–300.						
6 Tragni, V., Cotugno, P., Grassi, A.D., Cavalluzzi, M.M., Mincuzzi, A., Lentini, G., Sanzani, S.M., Ippolito, A., Pierri, C.L., 2021. Targeting <i>Penicillium expansum</i> GMC oxidoreductase with high affinity small molecules for reducing patulin production. Biology, 10, 1-24.							
7	7 Tragni, V., Cotugno, P., De Grassi, A., Massari, F., Di Ronzo, F., Aresta, A.M., Zambonin, C., Sanzani, S.M., Ippolito, A., Pierri, C.L. 2021. Targeting mitochondrial metabolite transporters in <i>Penicillium expansum</i> for reducing patulin production. Plant Physiology and Biochemistry, 158, 158-181.						
8							
9							
10	Mincuzzi, A., Ippolito, A., Brighenti, V., Marchetti, L., Benvenuti, S., Ligorio, A., Pelati, F., Sanzani, S. M. 2020. The effect of polyphenols on						
	pomegranate fruit susceptibility to <i>Pilidiella granati</i> provides insights into disease tolerance mechanisms. Molecules, 25, 515.						

Summary data of scientific and professional activities of teacher						
Total number of citations	4541					
The total number of papers in SCI journal list	117					
H-index	38					
Current participation in projects	National: 1	International: 2				
Specialization and trainings						

#### Other relevant information:

- Member of various committees for PhD final exams and postdoc, researcher, associate and full professor recruitment;
- 2012-2013 Member of the ASN (Abilitazione Scientifica Nazionale) Commission for sector 07/D1;
- Chair of the international Working group "Biological Control of Postharvest Diseases";
- Member of the international Commissions "Quality and Postharvest Horticulture" and "Plant Protection" of the International Society for Horticultural Science (ISHS).
- 2009-2021 Coordinator of the PhD course "Biodiversity, Agriculture and Environment" at the University of Bari, Italy

#### **MEMBER OF SOCIETIES**

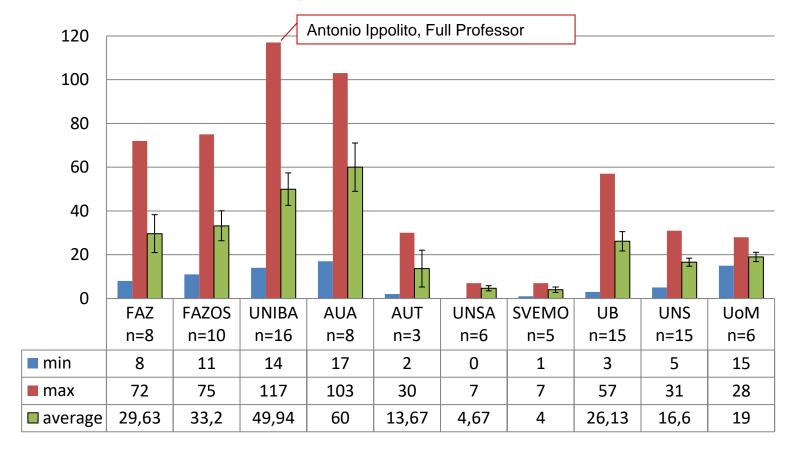
- Italian Society of Plant Pathology (SIPaV);
- Italian Association for Plant Protection (AIPP);
- International Society for Horticultural Science (ISHS);
- Mediterranean Phytopathological Union (MPU);
- International Society of Citriculture (ISC);
- International Association for the Plant Protection Science.



> Contact: <u>harissa@agr.hr</u> <u>www.agr.hr</u>



## Number of papers in SCI journal list / teacher (Scopus database)



























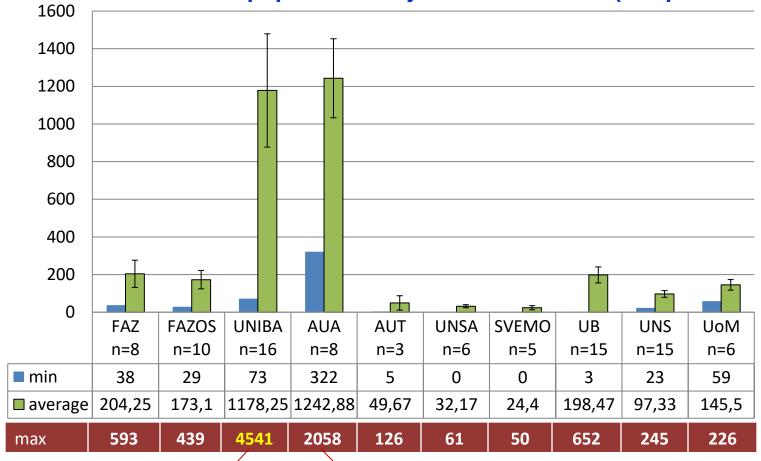


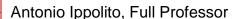


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## Number of citations in papers in SCI journals / teacher (Scopus database)





Epameinondas Paplomatas, Full Professor

























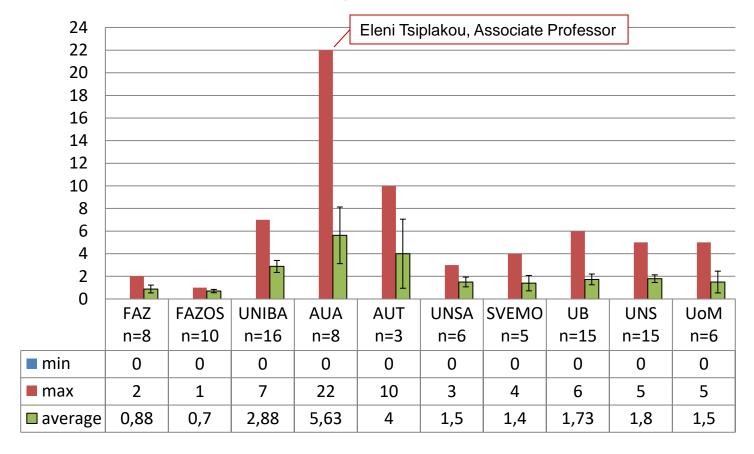




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## **Number of national projects / teacher (current participation)**



























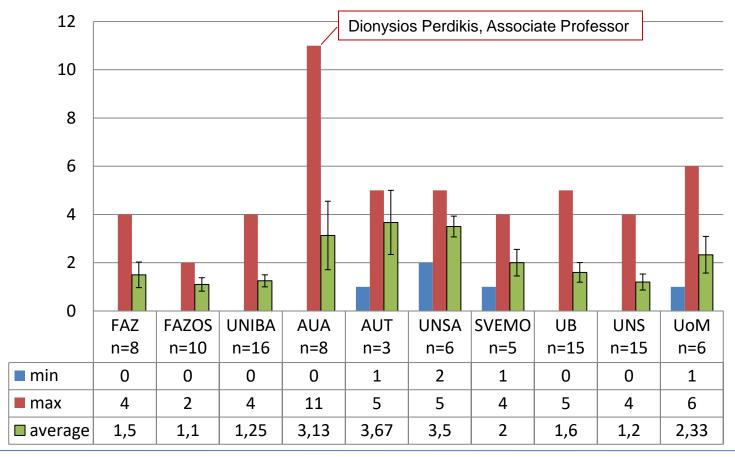




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## Number of international projects / teacher (current participation)































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## PhD Study Program for Plant Health in Sustainable Agriculture

## **DIDACTIC MATERIAL**























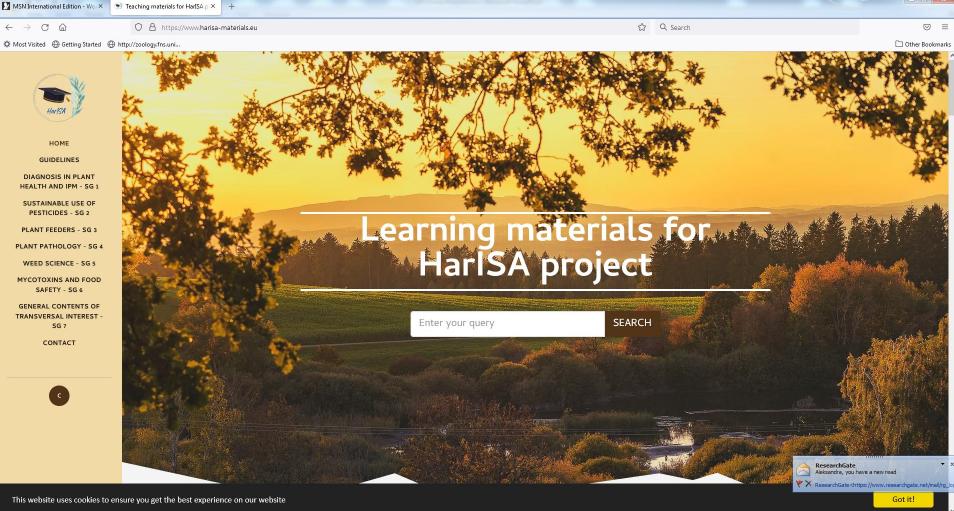






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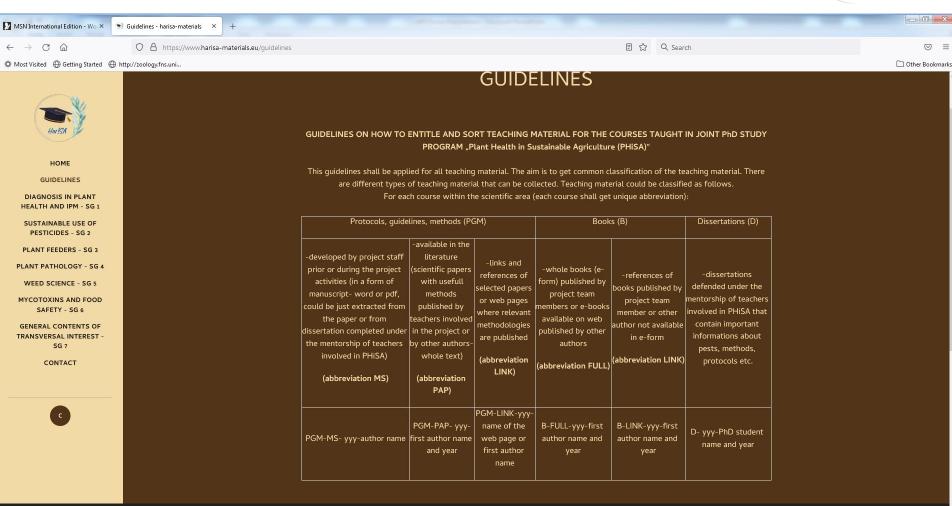
#### University of Zagreb Faculty of Agriculture Svetosimunska street 25, 10000 Zagreb, Croatia

Contact: <u>harissa@agr.hr</u> <u>www.agr.hr</u>



Got it!

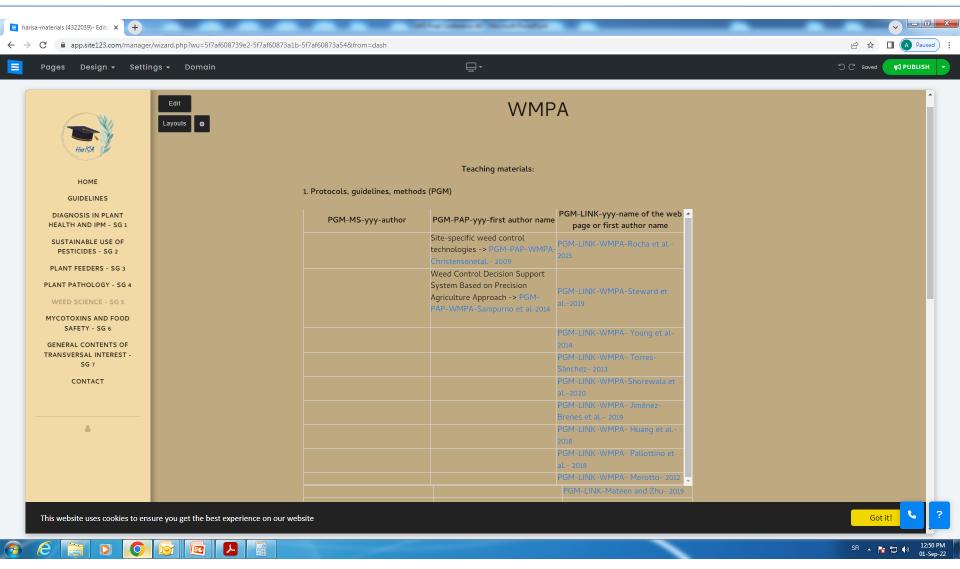
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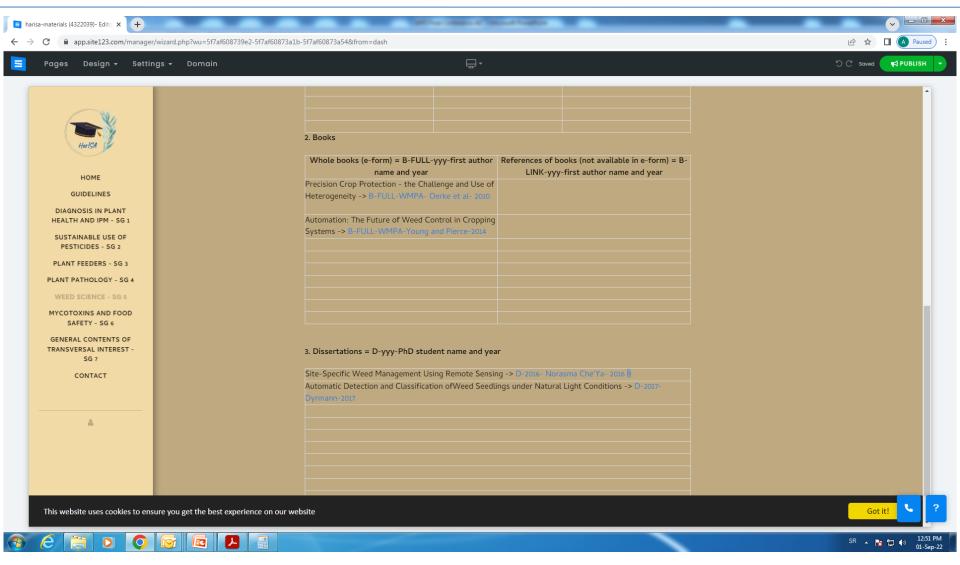






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TOTAL	COURSES	1. Protocols, guidelines, methods	2. Books	3. Dissertations
SG1	3	16	4	1
SG2	3	13 2		-
SG3	6	9	1	4
SG4	1	-	-	-
SG5	3	14	10	2
SG6	1	-	-	-
SG7	5	-	-	-
SG1-SG7	22	52	17	7

## SO FAR, 76 MATERIALS IN TOTAL; PLEASE, ADD MORE...

















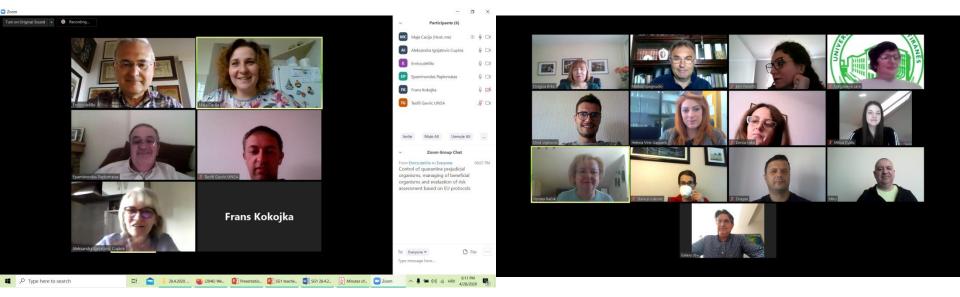




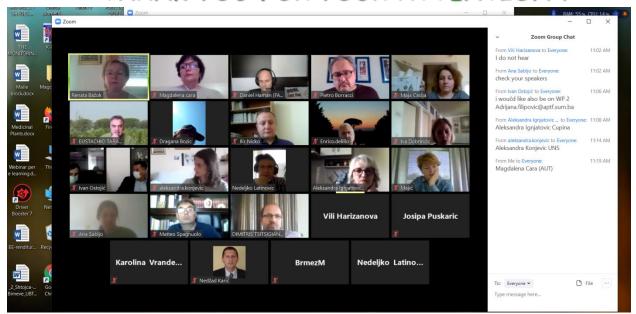








## THANK YOU VERY MUCH FOR ACTIVE AND FRUITFUL WORK! THANK YOU FOR YOUR ATTENTION!



The 1st Zoom WP3 workshop "Mostar" (April, 2022)