

**Subtopic 10 of ARIMNET 2:-C. Sustainable management of landscape and resources used by agriculture: 10. Sustainable management of water and other resources used by agriculture**

Area of Research	Spanish researcher	email	Organization	Web
NATIONAL FOREST DAMAGE GRIDNETS (LEVEL I), AS FOREST HEALTH	Grau Corbí, José Manuel	grau@inia.es	INIA	www.inia.es
NEW SATELLITE-BASED METODOLOGIES FOR IMPROVING WATER RESOURCES	Pedro Gavilán Zafra	pedrod.gavilan@juntadeandalucia.es	IFAPA	www.ifapa.es/
Landscape Genetics applied to the management and monitoring of the	José Manuel García del Barrio	jmgarcia@inia.es	INIA	www.inia.es
Ecological typification of main forest species in Spain: climatic models, habitat	Sánchez Palomares, Otilio	otilio@inia.es	INIA	www.inia.es
Ecological typification of the main forest species in Castilla y León: habitat	Modrego Alcalde, María Pilar	modalcpi@jcyll.es	JCYL	www.jcyl.es
Use of the general crop model CROPSYST to facilitate adoption of regulated deficit	Marsal Vilà, Jordi	jordi.marsal@irta.es	IRTA	www.itacyl.es
Use of the general crop model CROPSYST to facilitate adoption of regulated deficit	Prieto Losada, M <sup>a</sup> del Henar	maria.prieto@juntaextremadura.net	JUNTAEX	http://centrodeinvestigacionlaorden.gobex
Verticillium wilt: Early detection by remote sensing, prediction and impact of	Juan Antonio Navas-Cortés	jnavas@ias.csic.es	CSIC	www.csic.es/
ADVANCES IN THE AUTOMATIC PROCESSING OF REMOTE IMAGES TO	GARCIA TORRES,LUIS	lgarciatorres@ias.csic.es	CSIC	www.csic.es/
COUPLING LAND SURFACE ENERGY AND WATER BALANCE FROM REMOTE	GONZALEZ DUGO,MARIA PATROCINIO	mariap.gonzalez.d@juntadeandalucia.es	IFAPA	www.ifapa.es/
EARLY WEED DETECTION USING IMAGERY FROM UNMANNED AERIAL	LOPEZ GRANADOS,FRANCISCA	flgranados@ias.csic.es	CSIC	www.csic.es/
ANALYSIS, PARAMETRIZATION AND MODELLING OF SOIL AND THEIR	MARTIN MARTIN,MIGUEL ANGEL	miguelangel.martin@upm.es	UPM	www.upm.es
DYNAMIC MAPPING OF BARE SOIL AND CROP RESIDUES IN MEDITERRANEAN	PALACIOS ORUETA,ALICIA	alicia.palacios@upm.es	UPM	www.upm.es
INTEGRATION OF ADVANCED SENSING TECHNOLOGIES ON AN ON-THE-GO	TARDAGUILA LASO,JAVIER	javier.tardaguila@unirioja.es	UNIRIOJA	www.unirioja.es/

EVALUATION AND IMPROVEMENT OF CONSERVATION-ORIENTED	VANDERLINDEN ,KARL	karl.vanderlinden@juntadeandalucia.es	IFAPA	www.ifapa.es/
CHLOROPHYLL FLUORESCENCE DETECTION METHODS IN OLIVE, ORANGE	ZARCO TEJADA,PABLO J.	pzarco@ias.csic.es	CSIC	www.csic.es/
CHARACTERIZATION AND AGRONOMIC RELEVANCE OF NOVEL DROUGHT	COLMENERO FLORES,JOSE MANUEL	chemacf@irnase.csic.es	CSIC	www.csic.es/
FOREST VARIABLE SPATIAL MODELING FROM LIDAR AND MULTISPECTRAL	GARCIA ABRIL,ANTONIO DAMIAN	antonio.garcia.abril@upm.es	UPM	www.upm.es
SOILS, VEGETATION AND REMOTE SENSING OF SALINE WETLANDS IN THEIR	HERRERO ISERN,JUAN	jhi@eead.csic.es	CSIC-EEAD	www.eead.csic.es/
REMOTE SENSING METHODS WITH NARROW-BAND HYPERSPECTRAL AND	ZARCO TEJADA,PABLO J.	director.ias@csic.es	CSIC	www.csic.es/
TECHNIQUES FOR MEASUREING WATER BALANCE IN ENERGY CROPS: LYSIMETRY,	LOPEZ URREA,RAMON	rlu.itap@dipualba.es	DIPUALBA	www.dipualba.es/
UNDERSTANDING THE DEMOGRAPHIC PROCESSES THAT DETERMINE	COLL MIR,LLUIS	lluis.coll.projectes@ctfc.es	CTFC	www.ctfc.cat/
DEVELOPMENT OF TECHNICAL TOOLS AIMED TO IMPROVE THE ACCURACY IN	ARAUZO SANCHEZ,Mª DE LAS MERCEDES	mercedes@ccma.csic.es	CSIC	www.csic.es/
COUPLING LAND SURFACE ENERGY AND WATER BALANCE FROM REMOTE	CALERA BELMONTE,ALFONSO	Alfonso.Calera@uclm.es	UCLM	www.uclm.es
SOIL DEGRADATION INDEXES THROUGH IMAGE ANALYSIS	TARQUIS ALFONSO,ANA MARIA	anamaria.tarquis@upm.es	UPM	www.upm.es
MODELLING AND INTEGRATING LONG-TERM SOIL EROSION AND SOIL	VANWALLEGHEM ,TOM	ag2vavat@uco.es	UCO	www.uco.es/
CHARACTERIZATION, AND INFLUENCE ON TOTAL DELIVERY, OF SOURCES AND SINKS	GOMEZ CALERO,JOSE ALFONSO	joseagomez@ias.csic.es	CSIC	www.csic.es/
AN INTEGRATED MODEL FOR WATER AND SEDIMENTS FLOWS IN	JIMENEZ HORNERO,FRANCISCO JOSE	fjhornero@uco.es	UCO	www.uco.es/
CHARACTERIZING HYDROLOGICAL PATTERNS AND SOIL PROPERTIES ACROSS	VANDERLINDEN ,KARL	karl.vanderlinden@juntadeandalucia.es	IFAPA	www.ifapa.es/
Evaluation of the capacity of agricultural soils to sequester carbon using	Bescansa Miquel, Paloma	bescansa@unavarra.es	UNAV	www.unav.es/

Mechanisms of stabilization of organic matter in forest soils and posting.	CAMPS ARBESTAIN, MARTA	mccamps@neiker.net	NEIKER	www.neiker.net/
ARIDWASTE: "Development of specific agricultural practices with the use of	José Luis Moreno Ortego	jlmoreno@cebas.csic.es	CSIC	www.csic.es/
TECHNOLOGY OF DEGRADED SOIL RESTORATION THROUGH COMPOST AND	Walter Ayneto, Ingrid	walter@inia.es	INIA	www.inia.es
Soil quality, organic matter dynamics and C sequestration in newly irrigated land in	Orcaray Echeverría, Luis	lorcarae@cfnavarra.es	INTIA	www.intiasa.es/
Soil quality, organic matter dynamics and C sequestration in newly irrigated land in	Virto Quecedo, Íñigo Abdón	inigo.virto@UNAV.es	UNAV	www.unav.es/
Air application through a subsurface irrigation system in fruit trees in compact	Rufat Lamarca, Josep	JOSEP.RUFAT@IRTA.CAT	IRTA	www.irta.cat/
DEVELOPMENT OF INDICATORS OF THE EFFECT OF SOIL FUMIGANTS USED IN	Alonso Prados, José Luis	prados@inia.es	INIA	www.inia.es
Utilization of cover cropping at the vineyard as an alternative to traditional	Peregrina Alonso, Fernando	viticultura4.cida@larioja.org	LARIOJA	www.larioja.com/
Use of wild plants to recover degraded soils. Assesment of their heavy metal	Pérez Sanz, Araceli	araceli.perz@madrid.org	IMIDRA	www.madrid.org/imi dra/
Use of legumes plant covers as a solution to erosion problems and lack of fertility	Ordoñez Fernández, Rafaela	rafaelam.ordonez@juntadeandalucia.es	IFAPA	www.ifapa.es/
Analysis and optimization of mechanization systems of cover crops of	Gil Ribes, Jesús	gilribes@uco.es	UCO	www.uco.es/
REMOVAL OF HERBICIDE RESIDUES FROM AGRICULTURAL SOIL AND LEACHING	José Fenoll Serrano	jose.fenoll@carm.es	IMIDA	www.imida.es
Determination of emergent contaminants levels in organic	José Luis Tadeo Lluch	tadeo@inia.es	INIA	www.inia.es
Isolation and characterization of PGPR from the rizosphere of Arthocnemum	María Camacho Martínez-Vara de Rey	mariag.camachomartinez@juntadeandalucia.es	IFAPA	www.ifapa.es/
Assessment of desalination capacity of Arthrocnemum macrostachyum	Susana Redondo Gómez	susana@us.es	US	www.us.es
Study of biochemical and molecular mechanisms of Arthrocnemum	Ignacio David Rodríguez Llorente	irodri@us.es	US	www.us.es

OBTAINING AND EVALUATION OF VARIETIES OF GRASSES FOR ITS USE AS	Soler Llinares, Consuelo	llinares@inia.es	INIA	www.inia.es
Vigour control on hedgerow olive by means of breeding	Raúl de la Rosa Navarro	raul.rosa@juntadeandalucia.es	IFAPA	www.ifapa.es/
New technologies applicable to hedgerow Olive force to control	M <sup>a</sup> del Henar Prieto Losada	maria.prieto@juntaextremadura.net	JUNTAEX	http://centrodeinvestigacionlaorden.gobex
Olive plant parasitic nematodes and possible interactions with Verticillium	Pablo Castillo Castillo	pcastillo@ias.csic.es	CSIC	www.csic.es/
Irrigation, soil care, remote sensing and carbon balance	Elías Fereres Castiel	ag1fecae@uco.es	CSIC	www.csic.es/
Systems management in olive orchards to counteract soil degradation. Modelling	José Alfonso Gómez Calero	joseagomez@ias.csic.es	CSIC	www.csic.es/
Foreign soil-water-plant. Use wastes in agriculture. Contamination by trace	José Enrique Fernández Luque	jefer@irnase.csic.es	CSIC	www.csic.es/
NEW PLANT VARIETIES STRAWBERRY AND RASPBERRY	Javier Esteban Lopez	javier@elpinarmedioambiente.com	Vivero El Pinar S.Coop	www.fresasdesegovia.com/
Research, production and marketing of seeds, grains, fertilizers and compound	M <sup>a</sup> Jesús Rojo	mjrojo@grupoagrosa.com	Grupo AGROSA SA	www.grupoagrosa.es
ORGANIC MATTER DYNAMICS AND ISOTOPIC EVALUATION OF THE C CYCLE	CABANEIRO ALBALADEJO,ANA	acabaneiro@iiag.csic.es	CSIC	www.csic.es/
EFFECTS OF BIOCHAR ON CARBON SEQUESTRATION AND SOIL BIODIVERSITY	ALCAÑIZ BALDELLOU,JOSEP MARIA	JoseMaria.Alcaniz@uab.cat	UAB	www.uab.cat/
AIDED PHYTOSTABILIZATION OF METAL-POLLUTED MINE AREAS:	BECERRIL SOTO,JOSE MARIA	josemaria.becerril@ehu.es	EHU	www.ehu.es/p200-home/es
AIDED PHYTOSTABILIZATION OF METAL-POLLUTED MINE AREAS: SOIL-METAL-	CARPEN RUIZ,RAMON	ramon.carpenna@uam.es	UAM	www.uam.es/
ASSESSING SOIL PHOSPHORUS PHYTOAVAILABILITY	DELGADO GARCIA,ANTONIO	adelgado@us.es	US	www.us.es
MANAGEMENT OF DEGRADED ACID SOILS TO IMPROVE THEIR QUALITY	ESPEJO SERRANO,RAFAEL	rafael.espejo@upm.es	UPM	www.upm.es
AIDED PHYTOSTABILIZATION OF METAL-POLLUTED MINE AREAS: SOIL HEALTH	GARBISU CRESPO,CARLOS	cgarbisu@neiker.net	NEIKER	www.neiker.net/

C DYNAMIC IN DEGRADED AGRICULTURAL SOILS OF SEMI ARID	GARCIA IZQUIERDO,CARLOS JAVIER	cgarizq@cebas.csic.es	CSIC	www.csic.es/
PROSPECTION OF STRESS BIOINDEXES IN PLANTS USED IN AGRONOMY AND	HERNANDEZ RODRIGUEZ,LUIS EDUARDO	luise.hernandez@uam.es	UAM	www.uam.es/
ESTRATEGIES TO INCREASE STABLE CARBON IN VERTISOLS OF RAINFED	LOPEZ-BELLIDO GARRIDO,RAFAEL J.	cr1lobel@uco.es	UCO	www.uco.es/
FITOTECHNOLOGIES FOR REMEDIATION OF TRACE ELEMENT CONTAMINATED	MADEJON RODRIGUEZ,ENGRACIA	emadejon@irnase.csic.es	CSIC	www.csic.es/
IMPACT OF AGRICULTURAL PRACTICES ON SOIL EROSION AND C CICLE	MARTINEZ-MENA GARCIA,MARIA	mmena@cebas.csic.es	CSIC	www.csic.es/
DEVELOPMENT OF A DECISION SUPPORT SYSTEM TO MITIGATE THE IMPACT OF	NAVAS CORTES,JUAN ANTONIO	j.navas@csic.es	CSIC	www.csic.es/
MECHANISMS CONTROLLING THE EFFECTIVENESS OF GROWTH	ROLDAN GARRIGOS,ANTONIO	aroldan@cebas.csic.es	CSIC	www.csic.es/
SOIL DEGRADATION INDEXES THROUGH IMAGE ANALYSIS	TARQUIS ALFONSO,ANA MARIA	anamaria.tarquis@upm.es	UPM	www.upm.es
ENVIRONMENTAL IMPROVEMENT THROUGH THE COVERS FOR THREE-	URRESTARAZU GAVILAN,MIGUEL	mgavilan@ual.es	UAL	www.ual.es/
PYROGENIC ORGANIC MATER AS STABLE CARBON SOURCE FOR SOILS AND ITS	ANDRES PASTOR,PILAR	pilar.andres@uab.es	UAB	www.uab.cat/
APPLICATION OF AM FUNGI AND BENEFICIAL MICROORGANISMS TO	ROLDAN GARRIGOS,ANTONIO	aroldan@cebas.csic.es	CSIC	www.csic.es/
APPLICATION OF AM FUNGI AND BENEFICIAL MICROORGANISMS TO	AZCON GONZALEZ DE AGUILAR,ROSARIO	rosario.azcon@eez.csic.es	CSIC	www.csic.es/
CHARACTERIZATION, AND INFLUENCE ON TOTAL DELIVERY, OF SOURCES AND SINKS	GOMEZ CALERO,JOSE ALFONSO	joseagomez@ias.csic.es	CSIC	www.csic.es/
AN INTEGRATED MODEL FOR WATER AND SEDIMENTS FLOWS IN	JIMENEZ HORNERO,FRANCISCO JOSE	fjhornero@uco.es	UCO	www.uco.es/
CHARACTERIZING HYDROLOGICAL PATTERNS AND SOIL PROPERTIES ACROSS	VANDERLINDEN ,KARL	karl.vanderlinden@juntadeandalucia.es	IFAPA	www.ifapa.es/
CARBON SEQUESTRATION IN AFFORESTED AGRICULTURAL SOILS:	ROVIRA CASTELLA,PEDRO	pere.rovira@ctfc.es	CTFC	www.ctfc.cat/

CARBON STABILIZATION STUDY IN SOILS FROM REFORESTED ARABLE LANDS	MERINO GARCIA,AGUSTIN	agustin.merino@usc.es	USC	www.usc.es/
MICROBIOLOGICAL RISKS IN RECLAIMED WATER AND FOOD, RELATED TO NOVEL	GIRONES LLOP,ROSINA	rgirones@ub.edu	UB	www.ub.edu/
CARBON SEQUESTRATION MECHANISMS IN SEMIARID SOILS ACCORDING TO LAND	ALBALADEJO MONTORO,JUAN	jalba@cebas.csic.es	CSIC	www.csic.es/
ENANTIOSELECTIVE ENVIRONMENTAL BEHAVIOR OF CHIRAL PESTICIDES IN	CELIS GARCIA,RAFAEL	rcelis@irnase.csic.es	CSIC	www.csic.es/
HEAVY METAL TRANSPORTERS IN THE ARBUSCULAR MYCORRHIZAL SYMBIOSIS	FERROL GONZALEZ,NURIA	nuria.ferrol@eez.csic.es	CSIC	www.csic.es/
AGRONOMIC STRATEGIES FOR INCREASING THE WATER USE EFFICIENCY	GARCIA SANCHEZ,FRANCISCO	fgs@cebas.csic.es	CSIC	www.csic.es/
DEVELOPING AND VALIDATING TECHNOLOGIES FOR ENHANCING AND	GOMEZ CALERO,JOSE ALFONSO	joseagomez@ias.csic.es	CSIC	www.csic.es/
SALINE WETLANDS AS HOT SPOTS FOR AGRICULTURE AND FOR CONSERVATION	HERRERO ISERN,JUAN	jhi@eead.csic.es	CSIC	www.csic.es/
ASSESSMENT OF SOIL AND WATER CONTAMINATION BY PESTICIDES IN	SANCHEZ MARTIN,MARIA JESUS	mjesus.sanchez@irnasa.csic.es	CSIC	www.csic.es/
IMPROVING SUSTAINABILITY IN AGROECOSYSTEMS: RECOVERING SOIL	SANCHEZ MORENO,SARA	sarasm@inia.es	INIA	www.inia.es
CONTRIBUTION OF EDAPHOCLIMATIC CONDITIONS AND WATER MANAGEMENT	SANTESTEBAN GARCIA,LUIS GONZAGA	gonzaga.santesteban@UNAV.es	UNAV	www.unav.es/
LAND-CLIMATE INTERACTION IMPACT OF SOIL EROSION AND WATER QUALITY AT	RAMOS MARTIN,MARIA CONCEPCION	cramos@macs.udl.es	UDL	www.udl.es/
PHYSICAL AND CHEMICAL MECHANISMS OF CARBON STABILIZATION IN SOILS	PLAZA DE CARLOS,CESAR	c.plaza@ica.csic.es	CSIC	www.csic.es/
SYMBIOTIC NITROGEN FIXATION: IMPLICATIONS OF HORMONAL	LLUCH PLA,CARMEN	clluch@ugr.es	UGR	www.ugr.es/
IDENTIFICATION, TAGGING AND FUNCTIONAL ANALYSIS OF GENES	FLORES PARDO,FRANCISCO BORJA	borjaflores@cebas.csic.es	CSIC	www.csic.es/
CHARACTERIZATION OF THE BIOLOGICAL CAPACITIES OF COMPOSTING PROCESS	MORENO CASCO,JOAQUIN	jcasco@ual.es	UAL	www.ual.es/

REPLACING BARE FALLOW BY COVE CROPS IN IRRIGATED SYSTEMS: EFFECT	QUEMADA SAENZ-BADILLOS,MIGUEL	miguel.quemada@upm.es	UPM	www.upm.es
SELECTION OF HEAVY METAL-TOLERANT VARIETIES OF ALFALFA AND ASSOCIATED	PUEYO DABAD,JOSE JAVIER	jj.pueyo@csic.es	CSIC	www.csic.es/
Growing thistle biomass as a CO2 sink	FERNÁNDEZ GONZÁLEZ, Jesús	j.fernandez@upm.es	UPM	www.upm.es
Balance and CO2 emissions avoided	Lechón Pérez, Yolanda	yolanda.lechon@ciemat.es	CIEMAT	www.ciemat.es/
CARBON CAPTURE repopulated with AGRICULTURAL LAND FOR FOREST	Merino García, Agustín	agustin.merino@usc.es	USC	www.usc.es/
Control and monitoring of physiological growth of herbaceous plant species used	Lacuesta Calvo, M <sup>a</sup> Teresa	maite.lacuesta@ehu.es	EHU	www.ehu.es/p200-home/es
Estimating productivity in herbaceous plant species field used as potential CO2	Ortiz Barredo, Amaia	aortizb@neiker.net	NEIKER	www.neiker.net/
Effect of post-fire on the flow of CO2 and the carbon balance of forest treatments:	Kowalski Poitras, Andrew	andyk@ugr.es	UGR	www.ugr.es/
Evaluation of the capacity of agricultural soils to sequester carbon using	Bescansa Miquel, Paloma	bescansa@unavarra.es	UNAV	www.unav.es/
Carbon sequestration in the Kyoto Protocol and its impact on sustainable	Goetz - Renan-Ulrich	renan.goetz@udg.edu	UDG	www.udg.edu/
Carbon sequestration in the Kyoto Protocol and its impact on sustainable	Albiac Murillo, José	maella@unizar.es	CITA	www.cita-aragon.es/
Stock assessment and carbon dynamics in the compartment aerial and	Sabaté Jorba, Santiago	santi.sabate@ub.edu	IRTA	www.irta.cat/
Stock assessment and carbon dynamics in the compartment aerial and	Aranda Frattarola, Xavier	xavier.aranda@irta.cat	IRTA	www.itacyl.es
Accounting for the carbon stored in various forest and agricultural	Valero Gutiérrez del Olmo, Enrique	evalero@uvigo.es	UVIGO	www.uvigo.es/
Climatic factors that determine growth and carbon sequestration in the oak	MAESTRO MARTÍNEZ, MELCHOR	maestro@ipe.csic.es	CSIC	www.csic.es/
Modelling the influence of soil and climate on growth factors in	Vázquez Piqué Francisco, Javier	jpique@uhu.es	UHU	www.uhu.es/

Carbon sequestration and stabilization in conventional biomass crop plantations	Macías Vázquez, Felipe	felipe.macias.vazquez@usc.es	USC	www.usc.es/
Modelling multiproduct in the pasture: optimizing carbon sequestration.	SVEN MUTKE REGNERI	mutke@inia.es	INIA	www.inia.es
Pasture soils as carbon sinks and their relationship with management systems	RUBIO SÁNCHEZ, AGUSTÍN	agustin.rubio@upm.es	UPM	www.upm.es
Adaptation of Mediterranean pine forests of the Iberian Peninsula to	del Río Gaztelurrutia, Miren	delrio@inia.es	INIA	www.inia.es
ESTIMATION AND MODELING CAPABILITIES OF KIDNAPPING OF	Rey Simó, Ana	arey@mncn.csic.es	CSIC	www.csic.es/
Quantifying the carbon budget and olive scrub ecosystem to global scales using	Zarco Tejada, Pablo	pablo.zarco@csic.es.	CSIC	www.csic.es/
Study of agricultural alternatives as carbon sinks	SOMBRERO SACRISTÁN, AURORA	somsacau@itacyl.es	ITACYL	www.itacyl.es
Study of Alternative Forest of interest in Castilla y León to undertake a change	Cisneros González, Óscar	cisgonos@jcyll.es	JCYL	www.jcyl.es
Study of agroforestry alternatives to undertake a change project for	Tenorio Pasamón, José Luis	tenorio@inia.es	INIA	www.inia.es
Genetic variability and phenotypic plasticity in carbon sequestration	José María Climent Maldonado	climent@inia.es	INIA	www.inia.es
PHYSIOLOGICAL EVALUATION OF DIFFERENT STRATEGIES FOR MITIGATION	Francisco del Amor Saavedra	franciscom.delamor@carm.es	IMIDA	www.imida.es
Improving CO <sub>2</sub> -enriched greenhouse efficiency under mediterranean	María Cruz Sánchez-Guerrero Cantó	mariac.sanchezguerrero@juntadeandalucia.es	IFAPA	www.ifapa.es/
Root-soil water interaction in fruit	M <sup>a</sup> del Carmen Ruiz Sanchez/Oussama Mounzer	omounzer@cebas.csic.es	CSIC	www.csic.es/
Evaluation of the adaptation of new varieties and / or new scenarios and early	José Bernardo Royo	jbroyo@UNAV.es	UPN	www.unavarra.es/
Optimization of Mediterranean fruit production (deficit irrigation)	Arturo Torrecillas Melendreras	atorreci@cebas.csic.es	CSIC	www.csic.es/
Carbon sequestration in soil conservation agriculture and nitrogen fertilization	Aurora Sombrero	somsacau@itacyl.es	ITACyL	www.itacyl.es



Tillage systems and CO2 emissions	Jose Luis Tenorio	tenorio@inia.es	INIA	www.inia.es
Irrigation, soil care, remote sensing and carbon balance	Elías Fereres Castiel	ag1fecae@uco.es	CSIC	www.csic.es/
Systems management in olive orchards to counteract soil degradation. Modelling	José Alfonso Gómez Calero	joseagomez@ias.csic.es	CSIC	www.csic.es/
Verticillium wilt: Early detection by remote sensing, prediction and impact of	Juan Antonio Navas-Cortés	jnavas@ias.csic.es	CSIC	www.csic.es/
SILVICULTURAL STRATEGIES FOR ADAPTATION AND MITIGATION OF	BRAVO OVIEDO,FELIPE	fbravo@pvs.uva.es	UVA	www.uva.es/
MITIGATION AND ADAPTATION TO GLOBAL CHANGE IN FOREST	CAÑELLAS REY DE VIÑAS,ISABEL	canelas@inia.es	INIA	www.inia.es
SILVICULTURAL STRATEGIES FOR ADAPTATION AND MITIGATION OF	DEL RIO GAZTELURRUTIA,MIREN	delrio@inia.es	INIA	www.inia.es
MITIGATION AND ADAPTATION TO GLOBAL CHANGE IN FOREST	GIL PELEGRIN,EUSTAQUIO	egilp@aragon.es	CITA	www.cita-aragon.es/
MANAGEMENT OF GREENHOUSE GASES IN FOREST ECOSYSTEMS IN CENTRAL	RUBIO ,AGUSTIN	agustin.rubio@upm.es	UPM	www.upm.es
CARBON SEQUESTRATION IN AFFORESTED AGRICULTURAL SOILS:	ROVIRA CASTELLA,PEDRO	pere.rovira@ctfc.es	CTFC	www.ctfc.cat/
CARBON STABILIZATION STUDY IN SOILS FROM REFORESTED ARABLE LANDS	MERINO GARCIA,AGUSTIN	agustin.merino@usc.es	USC	www.usc.es/
REEVALUATION OF THE SOURCE-SINK AND LONG-DISTANCE TRANSPORT	ARRESE-IGOR SANCHEZ,CESAR	cesarai@UNAV.es	UNAV	www.unav.es/
GROUND INSPECTION SYSTEMS IN UNMANNED GROUND VEHICLES AND	RIBEIRO SEIJAS,ANGELA	angela.ribeiro@car.upm-csic.es	CSIC	www.csic.es/
INTEGRATION OF GENE EXPRESSION WITH METABOLISM AND	MORCUENDE MORCUENDE,ROSA MARIA	rosa.morcuende@irnasa.csic.es	CSIC	www.csic.es/
AMMONIUM TOLERANCE AS KEY FOR CROP MANAGEMENT IN VIEW OF	GONZALEZ MURUA,CARMEN	carmen.gmurua@ehu.es	EHU	www.ehu.es/p200-home/es
AMMONIUM TOLERANCE AS KEY FOR CROP MANAGEMENT IN VIEW OF	APARICIO TEJO,PEDRO M.	pmapariciotejo@UNAV.es	UNAV	www.unav.es/

ECOHYDROLOGICAL RELATIONSHIPS IN AGROFORESTRY INTERFACES. WHAT IS	BIEL LOSCOS,CARMEN	Carmen.biel@irta.cat	IRTA	www.irta.cat/
MANAGEMENT OF DEGRADED ACID SOILS TO IMPROVE THEIR QUALITY	ESPEJO SERRANO,RAFAEL	rafael.espejo@upm.es	UPM	www.upm.es
ROLE OF WEED DIVERSITY IN CEREALS AGROECOSYSTEMS: CEREAL YIELD,	GONZALEZ ANDUJAR,JOSE LUIS	andujar@cica.es	CSIC	www.csic.es/
TOOLS FOR DURUM WHEAT BREEDING TO ADDRESS THE CHALLENGES OF	ROYO CALPE,CONCEPCION	conxita.royo@irta.cat	IRTA	www.itacyl.es
PROMOVING STRATEGIES TO REDUCING GHG EMISSIONS IN AGRO-ECOSYSTEMS	VALLEJO GARCIA,ANTONIO	antonio.vallejo@upm.es	UPM	www.upm.es
CONTROL OF GREENHOUSE GASES AND N REACTIVE EMISSION THROUGH	VALLEJO GARCIA,ANTONIO	antonio.vallejo@upm.es	UPM	www.upm.es
PRODUCTION, BIODIVERSITY AND CARBON SEQUESTRATION IN GALICIAN	MOSQUERA LOSADA,MARIA ROSA	mrosa.mosquera.losada@usc.es	USC	www.usc.es/
HYDROLOGICAL DROUGHT INSURANCE FOR IRRIGATION, AN ADAPTATION TOOL	BIELZA DIAZ-CANEJA,MARIA	maria.bielza@upm.es	UPM	www.upm.es
STRATEGIES FOR THE MAXIMIZATION OF THE NITROGEN USE EFICIENCY AND	LLOVERAS VILAMANYA,JAUME	jaume.lloveras@irta.cat	UDL	www.udl.es/
STUDY OF THE BEHAVIOUR OF AGRO-FORESTAL SOLID BIOFUELS DURING	RAMIREZ GOMEZ,ALVARO	alvaro.ramirez@upm.es	UPM	www.upm.es
CARBON DYNAMICS AND SEQUESTRATION IN A RAINFED	LOPEZ-BELLIDO GARRIDO,RAFAEL J.	cr1lobel@uco.es	UCO	www.uco.es/
Using residual biomass in citrus crops, vegetable and rice, to reduce emissions	Pomares García, Fernando	fpomares@ivia.es	IVIA CAV	www.ivia.gva.es/ CAV
TILMAN-ORG:"Reduced tillage and green manures for sustainable organic cropping	Xavier Sans	fsans@ub.edu	UB	www.ub.edu/
BIO-INCROP ("Innovative cropping techniques to increase soil health in	Rodolfo Canet	canet.rodolfo@gmail.com	IVIA	www.ivia.gva.es/
OBTAINING AND EVALUATION OF VARIETIES OF GRASSES FOR ITS USE AS	Soler Llinares, Consuelo	llinares@inia.es	INIA	www.inia.es
IRRIGATED AND RAINFED CROPS IN CONSERVATION AGRICULTURE USING	Sombrero Sacristán, Aurora	somsacau@itacyl.es	ITACYL	www.itacyl.es

IRRIGATED AND RAINFED CROPS IN CONSERVATION AGRICULTURE USING Fertilization	Tenorio Pasamón, José Luis	tenorio@inia.es	INIA	www.inia.es
Use of agro-food waste (grape marc compost) to improve the production	Orcaray Echeverría, Luis	luis.orcaray.echeverria@navarra.es	CFNAVARRA	www.intiasa.es/
Use of agro-food waste (grape marc compost) to improve the production	Ribas Elcorobarrutia, Francisco	fribas@jccm.es	JCCM	www.jccm.es
Use of agro-food waste (grape marc compost) to improve the production	Cartagena Causapé, Carmen	mariacarmen.cartagena@upm.es	UPM	www.upm.es
Use of agro-food waste (grape marc compost and alperujo compost) to	González Viñas, Miguel Ángel	MiguelAngel.Gonzalez@uclm.es	UCLM	www.uclm.es
Improvement of the composting of organic by-products focused on the	Cáceres Reyes, Rafaela	rafaela.caceres@irta.cat	IRTA	www.itacyl.es
Fertilization with animal manures and slurries: Agronomy and environmental	Quílez Sáez de Viteri, Dolores	dquilez@aragon.es	CITA	www.cita-aragon.es/
Fertilization with farm organic by-products: agronomic and environmental	Bosch Serra Angela, Dolores	angela.bosch@macs.udl.es	UDL	www.udl.es/
Conservation agriculture techniques in rainfed tree crops and Mediterranean	Víctor Hugo Durán Zuazo	victorh.duran@juntadeandalucia.es	IFAPA	www.ifapa.es/
Implications of livestock grazing on biodiversity conservation in the pastures	Rocío Rosa García	entomteam@hotmail.com	SERIDA	www.serida.org/
Utilization of cover cropping at the vineyard as an alternative to traditional	Peregrina Alonso, Fernando	viticultura4.cida@larioja.org	LARIOJA	www.larioja.com/
Fertilizers adapted to stress conditions as	Javier Erro Garcés	jerrogar@hotmail.com	TIMAC-AGRO	www.timacagro.es/
Carbon sequestration in soil conservation agriculture and nitrogen fertilization	Aurora Sombrero	somsacau@itacyl.es	ITACyL	www.itacyl.es
Tillage systems and CO2 emissions	Jose Luis Tenorio	tenorio@inia.es	INIA	www.inia.es
Soil and agro-products in the biodesinfección nematofauna soil	José Antonio López Pérez	jaloopezp@jccm.e	JCCM	www.jccm.es
Management of livestock poultry byproducts for agricultural recovery	M <sup>a</sup> del Mar Delgado Arroyo	delgado@inia.es	INIA	www.inia.es

Products of food industries as biofumigants amendments to disinfect	Alfredo Lacasa Plasencia	Alfredo.lacasa@carm.es	IMIDA	www.imida.es
Products of food industries as amendments: effect on soil	Santiago Larregla de Palacio	slarregla@neiker.net	NEIKER	www.neiker.net/
Characterization of manure and food products industries biofumigant power	Pedro Fernández Molina	direcciontecnic@organicospedrin.com	ABONOS ORGÁNICOS	www.organicospedrin.com/
Rating fertilizer processed pig manure	Fernando Suarez Mejido	fernando.suarez@sener.es	ADAP	www.adap.org.es/
Suppressiveness of composts alperujo to Verticillium	Manuel Avilés Guerrero	aviles@us.es	US	www.us.es/
Foreign soil-water-plant. Use wastes in agriculture. Contamination by trace	José Enrique Fernández Luque	jefer@irnase.csic.es	CSIC	www.csic.es/
CARBON SEQUESTRATION MECHANISMS IN SEMIARID SOILS ACCORDING TO LAND	ALBALADEJO MONTORO,JUAN	jalba@cebas.csic.es	CSIC	www.csic.es/
STUDY OF COMPOSTING AS BIOTECHNOLOGICAL PROCESS TO	BOLUDA HERNANDEZ,RAFAEL	boluda@uv.es	UV	www.uv.es/
CONSERVATION AGRICULTURE IN MEDITERRANEAN AGRICULTURAL	CANTERO MARTINEZ,CARLOS	carlos.cantero@pvcf.udl.cat	UDL	www.udl.es/
USE OF BIOCHAR AND ORGANIC RESIDUES IN RICE CROPS OF	COX MEANA,LUCIA	LCOX@IRNASE.CSIC.ES	CSIC	www.csic.es/
DEVELOPMENT OF AEROBIC RICE CULTIVATION APPLYING CONSERVATION	LOPEZ PIÑEIRO,ANTONIO	pineiro@unex.es	UNEX	www.unex.es/
CONSERVATION AGRICULTURE IN MEDITERRANEAN AGRICULTURAL	LOPEZ SANCHEZ,M. VICTORIA	vlopez@eead.csic.es	CSIC	www.csic.es/
REDUCED MINERAL FERTILIZATION IN CONSERVATION AGRICULTURE. EFFECT	LOPEZ-FANDO RAYNAUD,CRISTINA	lopez.fando@ica.csic.es	CSIC	www.csic.es/
CARACTERIZATION OF THE BIOLOGICAL CAPACITIES OF COMPOSTING PROCESS	MORENO CASCO,JOAQUIN	jasco@ual.es	UAL	www.ual.es/
CONSERVATION AGRICULTURE IN MEDITERRANEAN AGROSYSTEMS: SOIL	MURILLO CARPIO,JOSE MANUEL	murillo@irnase.csic.es	CSIC	www.csic.es/
WEEDS OR PLANT DIVERSITY? THEIR ROLE AS INDICATOR OF THE EFFICIENCY	RECASENS GUINJUAN,JORDI	jrecasens@hbj.udl.cat	UDL	www.udl.es/

ROLE OF RHIZOBIUM IN THE DESIGN OF BACTERIAL BIOFERTILIZERS.	RIVAS GONZALEZ,RAUL	raulrg@usal.es	USAL	www.usal.es/
AGRICULTURAL AND ENVIRONMENTAL ASSESSMENT OF THE USE OF BIOCHAR	SANCHEZ MONEDERO,MIGUEL ANGEL	monedero@cebas.csic.es	CSIC	www.csic.es/
MODELLING AND INTEGRATING LONG-TERM SOIL EROSION AND SOIL	VANWALLEGHEM ,TOM	ag2vavat@uco.es	UCO	www.uco.es/
DESIGN OF INOCULATION PROGRAMS FOR COMPOSTING OF HORTICULTURAL	MORENO CASCO,JOAQUIN	jasco@ual.es	UAL	www.ual.es/
PHYSICAL AND CHEMICAL MECHANISMS OF CARBON STABILIZATION IN SOILS	PLAZA DE CARLOS,CESAR	c.plaza@ica.csic.es	CSIC	www.csic.es/
REEVALUATION OF THE SOURCE-SINK AND LONG-DISTANCE TRANSPORT	ARRESE-IGOR SANCHEZ,CESAR	cesarai@UNAV.es	UNAV	www.unav.es/
SIGNALING BY REACTIVE OXYGEN/NITROGEN SPECIES AND	BECANA AUSEJO,MANUEL	becana@eead.csic.es	CSIC-EEAD	www.eead.csic.es/
BIOTECHNOLOGICAL DEVELOPMENT OF MYCORRHIZAL INOCULATION AND	CALVET PINOS,MARIA CINTA	cinta.calvet@irta.es	IRTA	www.itacyl.es
ASSESSING SOIL PHOSPHORUS PHYTOAVAILABILITY	DELGADO GARCIA,ANTONIO	adelgado@us.es	US	www.us.es
USE OF NITRIFICATION INHIBITORS FOR A RATIONAL MANAGMENT OF NITROGEN	GONZALEZ MURUA,CARMEN	carmen.gmurua@ehu.es	EHU	www.ehu.es/p200-home/es
MINERAL FERTILIZING REDUCTION IN CONVENTIONAL AND CONSERVATION	HERNANZ MARTOS,JOSE LUIS	joseluis.hernanz@upm.es	UPM	www.upm.es
ESTRATEGIES TO INCREASE STABLE CARBON IN VERTISOLS OF RAINFED	LOPEZ-BELLIDO GARRIDO,RAFAEL J.	cr1lobel@uco.es	UCO	www.uco.es/
REGULATION OF GENES INVOLVED IN THE BIOSYNTHESIS OF NOD FACTORS	MEGIAS GUIJO,MANUEL	megiasg@us.es	US	www.us.es
MOLECULAR MECHANISM OF FIXK2: A KEY REGULATORY PROTEIN THE	MESA BANQUERI,MARIA SOCORRO	socorro.mesa@eez.csic.es	CSIC	www.csic.es/
FERTILIZATION REDUCTION IN CONVENTIONAL AND CONSERVATION	NAVARRETE MARTINEZ,LUIS	luis.navarrete@madrid.org	IMIDRA	www.madrid.org/imi dra/
REPLACING BARE FALLOW BY COVE CROPS IN IRRIGATED SYSTEMS: EFFECT	QUEMADA SAENZ-BADILLOS,MIGUEL	miguel.quemada@upm.es	UPM	www.upm.es

PYROGENIC ORGANIC MATER AS STABLE CARBON SOURCE FOR SOILS AND ITS	ANDRES PASTOR,PILAR	pilar.andres@uab.es	UAB	www.uab.cat/
SYMBIOTIC NITROGEN FIXATION: IMPLICATIONS OF HORMONAL	LLUCH PLA,CARMEN	clluch@ugr.es	UGR	www.ugr.es/