

**SEE**  
**ECOLOGY VII**  
2022 • SEPTEMBER 6-9 • **ASTURIAS**



xixón



Universidad de Oviedo

**PROGRAM**



Universidad de  
Oviedo

Xixón



### Conference website

<https://www.unioviedo.es/seedecol7/>

### Organizing committee

Borja Jiménez-Alfaro (chair), University of Oviedo (Spain)  
Eduardo Fernández-Pascual (co-chair), University of Oviedo (Spain)  
Daniel García, University of Oviedo (Spain)  
Clara Espinosa del Alba, University of Oviedo (Spain)  
Victor González-García, University of Oviedo (Spain)  
Adrián Lázaro-Lobo, University of Alcalá (Spain)  
Diana María Cruz Tejada, University of Pisa (Italy)  
Luis Carlón Ruiz, Biosfera S.L. (Spain)  
Luis Miguel Álvarez Morales, Atlantic Botanic Garden (Spain)  
Reyes Álvarez Vergel, Atlantic Botanic Garden (Spain)  
Jesús Barrientos González, Atlantic Botanic Garden (Spain)

### Scientific committee

Carol Baskin, University of Kentucky (USA)  
Angelino Carta, University of Pisa (Italy)  
Lucy E Commander, University of Western Australia (Australia)  
Matthias Dehling, Swiss Federal Research Institute WSL (Switzerland)  
Alessandra Fidelis, Universidade Estadual Paulista (Brazil)  
Fiona Hay, Aarhus University (Denmark)  
Gerhard Leubner, Royal Holloway University of London (UK)  
Efisio Mattana, Royal Botanic Gardens, Kew (UK)  
David Merrit, Botanic Gardens and Parks Authority (Australia)  
Andrea Mondoni, University of Pavia (Italy)  
Shyam Phartyal, Nalanda University (India)  
Haldre S Rogers, Iowa State University (USA)  
Sergey Rosbakh, University of Regensburg (Germany)  
Beatriz Rumeu, University of Cádiz (Spain)  
Arne Saatkamp, Aix-Marseille University (France)  
Charlotte Seal, Royal Botanic Gardens, Kew (UK)  
Fernando AO Silveira, Federal University of Minas Gerais (Brazil)  
Filip Vandeloos, Meise Botanic Garden (Belgium)  
Anne Visscher, Royal Botanic Gardens, Kew (UK)

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<b>Monday, September 5, 2022</b>	
Atlantic Botanic Garden ( <a href="#">map</a> )	
16:00 - 19:00	Registration
17:00 - 19:00	Guided tours of the Botanic Garden
19:00 - 20:00	Welcome reception (Cheese & Cider) at the Linnaeus Pavilion

<b>Tuesday, September 6, 2022</b>	
Polytechnic School, University campus ( <a href="#">map</a> )	
8:30 - 9:00	Registration
	<b>Conference opening</b>
9:00 - 9:45	<b>Antonio Fueyo Silva</b> (Vice-Rector for Research, University of Oviedo) <b>Aurelio Martín González</b> (Gijón/Xixón city councillor) <b>Fiona Hay</b> (International Society for Seed Science) <b>Borja Jiménez-Alfaro</b> (Organizing committee)
	<b>Keynote</b>
9:45 - 10:30	<b>Si-Chong Chen</b> : Macroecology of seed dispersal distance
	<b>Macroecology and evolution of seeds</b> Chair: Sergey Rosbakh
10:30 - 10:45	<b>Filip Vandeloek</b> : Ecological correlates and evolutionary history of post-dispersal embryo growth and embryo growth rate in angiosperms
10:45 - 11:00	<b>Angelino Carta</b> : Macroevolutionary correlation of seed traits in flowering plants: current advances and future prospects
11:00 - 11:30	Coffee break
11:30 - 11:45	<b>Eduardo Fernández-Pascual</b> : The global seed germination spectrum of alpine plants
11:45 - 12:00	<b>Guillermo Valdevira</b> : Two life-forms - two patterns of seed morphology in Orchidaceae
12:00 - 12:15	<b>Spyridon Oikonomidis</b> : Orchid seed morphometrics as a predictor of germination behavior and some ecological implications
	<b>Seed dispersal and plant-animal interactions</b> Chair: Gemma Hoyle
12:15 - 12:30	<b>Mie Anberg</b> : Directed endozoochory: a hitchhiker's guide for clonal ericaceous plants to successful sexual reproduction
12:30 - 12:45	<b>Diana C Acosta-Rojas</b> : Climate and microhabitat effects on the importance of endozoochory along an elevational gradient in Southern Ecuador
13:00 - 14:30	Lunch

14:30 - 14:45	<b>Daniel García:</b> Role of seed dispersal by animals on secondary succession in Cantabrian mountains: implications for rewilding and forest restoration
14:45 - 15:00	<b>Lisieux Fuzessy:</b> Are large vertebrates redundant in seed dispersal functions and dung beetle attraction in the Atlantic forest?
15:00 - 15:15	<b>Jorge Isla-Escudero:</b> Drivers and functional consequences of an individual-based seed-dispersal network along a natural regeneration gradient
15:15 - 15:30	<b>Raquel Muñoz-Gallego:</b> Dense herbivore populations influence the spatial patterns of seed dispersal and seed predation in the Mediterranean dwarf palm
15:30 - 16:00	Coffee break
16:00 - 16:15	<b>Lucía Acevedo-Limón:</b> Seed-dispersal limitation as a driver of biodiversity deficits in chronically fragmented landscapes
16:15 - 16:30	<b>Alba Cuena-Lombría:</b> Understanding long-distance seed dispersal by sea currents: first results of experiments on <i>Juniperus</i> , <i>Daucus</i> , <i>Ferula</i> and <i>Pancratium</i> spp. from the Mediterranean basin
16:30 - 16:45	<b>Claudio Açaí Bracho-Estévez:</b> Variation among plant species in seed retention time inside frugivores' gut: relevance and underlying traits

### Wednesday, September 7, 2022

Polytechnic School, University campus ([map](#))

8:30 - 9:00	Registration
	Keynote
9:00 - 9:45	<b>Mark Ooi:</b> Using seed ecology to inform biodiversity conservation
	<b>Theory and methods in seed trait ecology</b> Chair: Arne Saatkamp
9:45 - 10:00	<b>Elena Castillo-Lorenzo:</b> Identifying conservation and knowledge gaps in cultivated Brassicaceae: characterization of functional traits in crop wild relatives
10:00 - 10:15	<b>Fernando AO Silveira:</b> Towards a tropical seed and germination trait database
10:15 - 10:30	<b>Carlos Andrés Ordóñez-Parra:</b> Looking for the orthogonality of germination indexes: minimalism meets seeds functional ecology
10:30 - 10:45	<b>Roberta Dayrell:</b> An image analysis tool for automated extraction of diaspore morphological traits
10:45 - 11:00	<b>Peter Poschlod:</b> The seed trait handbook
11:00 - 11:30	Coffee break

	<b>Seed functions in plant communities</b> Chair: Fernando AO Silveira
11:30 - 11:45	<b>Silvia Del Vecchio:</b> The role of seed functional diversity in buffering plant communities from species colonization
11:45 - 12:00	<b>Shyam S Phartyal:</b> Easy to grow: assessing the role of regeneration traits in global urban trees selection
12:00 - 12:15	<b>Isis Arend da Silva:</b> Experimental germination responses to different temperature and light regimes and species spatial distributions in a guild of Western Australian annuals
12:15 - 12:30	<b>Sergey Rosbakh:</b> Inferring community assembly processes from functional seed trait variation along a temperature gradient
12:30 - 12:45	<b>Clara Espinosa del Alba:</b> Seed germination responses to microclimatic conditions in alpine communities
13:00 - 14:30	Lunch
14:30 - 14:45	<b>Ryan Tangney:</b> Identifying seed functional traits contributing to seed survival and plant regeneration in fire-prone ecosystems.
14:45 - 15:00	<b>Sarah Jane McInnes:</b> Cracking the code: seed coat chemistry in physically dormant seeds
15:00 - 15:15	<b>Alessandra Fidelis:</b> Burned fruits and heated seeds: are seeds still able to germinate?
15:15 - 17:00	Posters and drinks

<b>Thursday, September 8, 2022</b>	
Polytechnic School, University campus ( <a href="#">map</a> )	
8:30 - 9:00	Registration
	<b>Keynote</b>
9:00 - 9:45	<b>Anna Bucharova:</b> Seeding the future: evolutionary perspective on seed-based restoration
	<b>Seed-based restoration and conservation (I)</b> Chair: Lydia K Guja
9:45 - 10:00	<b>Matthew M Aghai:</b> Addressing seed needs for reforestation in the western United States
10:00 - 10:15	<b>Diana María Cruz Tejada:</b> MedGermDB: building a seed germination database of Mediterranean plants
10:15 - 10:30	<b>Borja Jiménez-Alfaro:</b> Greening Iberian olive groves with native seeds
10:30 - 10:45	<b>Sara Magrini:</b> Selecting native seeds for the revegetation of coastal dunes altered by <i>Carpobrotus</i> species

10:45 - 11:00	<b>Giulia Albani Rocchetti:</b> Germination protocol for herbarium-stored seeds to recover extinct plants
11:00 - 11:30	Coffee break
11:30 - 11:45	<b>Fiona J White:</b> Fit for the future: alpine plant responses to climatic stress after 20 years of seed bank conservation
11:45 - 12:00	<b>Paweł Chmielarz:</b> Frost resistance of pedunculate oak seeds and the implications for their storage
12:00 - 12:15	<b>Sara Villa:</b> Inter-population variability in seed germination, reproductive ecology and genetic structure of a rare chasmophyte ( <i>Campanula raineri</i> , Campanulaceae): insights for conservation purposes
12:15 - 12:30	<b>Bruno Fogliani:</b> Seed ecology of candidate species for restoration of humid forest in New Caledonia: the case of Koniambo Massif
12:30 - 12:45	<b>Mikołaj K. Wawrzyniak:</b> Dormancy release and germination of selected forest species under controlled conditions
13:00 - 14:30	Lunch
	<b>Seed-based restoration and conservation (II)</b> Chair: Alessandra Fidelis
14:30 - 14:45	<b>Héctor Pérez:</b> Understanding germination processes can enhance restoration: a role for the woody endocarp of <i>Morella parvifolia</i> (Benth.) Parra-Os from the south Andes of Ecuador
14:45 - 15:00	<b>Olga A Kildisheva:</b> Seed treatments improve plant recruitment in dryland environment
15:00 - 15:15	<b>Miriam Muñoz-Rojas:</b> Seed bioprimering and pelleting with indigenous microbes for restoring native plants in Australian ecosystems
15:15 - 15:30	<b>Matthew M Aghai:</b> Enhancing direct seeding with unmanned aerial vehicles, operational capacity, and seed technology in the western US and beyond
15:30 - 15:45	<b>Mauro Fois:</b> The project Life SEEDFORCE, an integrated approach for plant translocation
15:45 - 17:00	Coffee and posters

	Atlantic Botanic Garden ( <a href="#">map</a> )
	Conference dinner
20:00	Bus transfer from Gijón/Xixón city center to the Botanic Garden
20:30 - 22:30	Dinner
23:00	Bus transfer from the Botanic Garden to Gijón/Xixón city center

<b>Friday, September 9, 2022</b>	
Polytechnic School, University campus ( <a href="#">map</a> )	
8:30 - 9:00	Registration
	Keynote
9:00 - 9:45	<b>Andrea Mondoni:</b> Seeds and climate change: what can we learn from alpine and arctic biomes?
	<b>Environmental control of seed germination (I)</b> Chair: Filip Vandeloos
9:45 - 10:00	<b>Jerónimo Vázquez-Ramírez:</b> Smaller, lighter, later: effects of a future warmer and drier climate on alpine seeds and seedlings
10:00 - 10:15	<b>Cagatay Tavsanoglu:</b> Germination patterns under climate change in the plants of the Central Anatolian steppe
10:15 - 10:30	<b>Tomasz Andrzej Pawłowski:</b> Adaptation of European beech ( <i>Fagus sylvatica</i> L.) to the variable environments in the term of seed germination
10:30 - 10:45	<b>Arne Saatkamp:</b> Multiple relations between seed traits and germination performance change with temperature
10:45 - 11:00	<b>Lydia K Guja:</b> Environment and polyploidy affect germination of rare shrub species
11:00 - 11:30	Coffee break
	<b>Environmental control of seed germination (II)</b> Chair: Elena Castillo Lorenzo
11:30 - 11:45	<b>Gerhard Leubner-Metzger:</b> Molecular mechanisms of allelochemicals in germination and seedling establishment
11:45 - 12:00	<b>Nahema Venceslai:</b> Ecophysiological and molecular mechanisms of blackgrass weed seed bank persistence
12:00 - 12:15	<b>Jake Owen Chandler:</b> Pericarp-elicited transcriptomic and hormonal changes underpin early life history traits in the dimorphic diaspores of <i>Aethionema arabicum</i>
12:15 - 12:30	<b>Lena Fatelnig:</b> seed priming with gas plasma activated water in Ethiopia's "orphan" crop tef ( <i>Eragrostis tef</i> )
12:30 - 12:45	<b>Gemma Hoyle:</b> Impact of red:far red ratios on germination in Australia's tropical mountain cloud forests
13:00 - 14:30	Lunch
14:30 - 14:45	<b>Ruby Paroissien:</b> Effects of fire season on the reproductive effort and seed resourcing of a post-fire flowerer
14:45 - 15:00	<b>Cristian Malavert:</b> Environmental thermal regulation of dormancy in <i>Echinochloa crus-galli</i> (L.) P. Beauv. seeds
	<b>Closing ceremony</b>
15:00 - 16:00	Excursions info, farewell

Saturday, September 10, 2022	
	<b>Excursions</b>
9:00	Meeting point at the Polytechnic School, University campus ( <a href="#">map</a> )
Before 20:00	Stops in Gijón/Xixón city and the Polytechnic School

Posters	
(Names refer to the first author, they may differ from presenters)	
	<b>Seed dispersal and plant-animal interactions</b>
P01	<b>Harsh Yadav:</b> Plants on the ride: tracking the research diversity globally on endozoochory
P02	<b>Tereza Mašková:</b> Are seeds of wind-dispersed species really more oily? - The revised relationship between dispersal syndromes and seed nutrients
P03	<b>Michele Di Musciano:</b> The evolution of plant dispersal syndromes and seed traits: evolutionary cues and diversification
P04	<b>Victor González-García:</b> Unmasking the perching effect of the pioneer Mediterranean palm <i>Chamaerops humilis</i> L.
P05	<b>Barbora Lepková:</b> Seed dispersal by ungulates – from seed traits to landscape level
	<b>Seed functions in plant communities</b>
P06	<b>Heloiza L Zironi:</b> <i>In situ</i> seed storage affects germination responses to fire-related cues in Cerrado species
P07	<b>Emma Ortúñez:</b> Testa extensions in orchid seeds: mechanisms to attach the bark of trees
P08	<b>Giacomo Trotta:</b> Alien and native seed germination performance might shape the species assembly of temperate grasslands under a global warming
	<b>Seed-based restoration and conservation</b>
P09	<b>Chantelle Doyle:</b> Pairing population genetics with seed and seedling traits to quantify inbreeding impacts on an endangered species
P10	<b>Petra Hlásná Čepková:</b> The impact of ozone treatment on seed germination and pathogen infections in wheat, barley, triticale and rapeseeds
P11	<b>Sara Magrini:</b> Seed lipid thermal fingerprints of Mediterranean terrestrial orchids in relation to their ecology and <i>ex situ</i> conservation
P12	<b>Amelia J Martyn Yenson:</b> <i>Ex situ</i> conservation guidelines for Australia's national plant treasures
P13	<b>Lucy Commander:</b> Best-practice guidelines for threatened plant translocation, native seed use, and plant germplasm conservation



P14	<b>Luciano Di Martino:</b> <i>Ex situ</i> conservation experiences for seven threatened taxa: the case of the Life FLORANET project for the conservation of plant biodiversity in the Apennines (Italy)
P15	<b>Marco Vuerich:</b> Success of native hay-seed mix for dry grassland restoration: do not neglect the role of soil seed bank
P16	<b>Vanessa Hernández-Mendoza:</b> Ecology and physiology of coastal dune plant seeds as a model for their conservation
P17	<b>Esteban Ramírez:</b> Seed priming to optimize germination in <i>Arthrocnemum</i> Moq.: a prime halophyte candidate for agricultural and biotechnological uses
P18	<b>Candido Galvez-Ramírez:</b> FLEURS LOCALES, a project on the value chain of native seed production in south-western Europe
P19	<b>Sofia Kourmpetli:</b> Reducing seed losses in commercial seed production through understanding of the genetic mechanisms controlling seed shattering
	<b>Environmental control of seed germination</b>
P20	<b>Fernanda Caro Beveridge:</b> Germination thresholds and stress tolerance of Australian native species under a changing climate
P21	<b>Miguel Ángel Copete:</b> Seed ecology of <i>Atropa baetica</i> Willk. as a possible explanation for its rarity
P22	<b>Lorenzo Pinzani:</b> Comparative studies on seed germination in related <i>Aquilegia</i> species (Ranunculaceae)
P23	<b>Belén Luna:</b> Timing of fire during summer determines seed germination in Cistaceae
P24	<b>Spyridon Oikonomidis:</b> Cone/seed morphometry and germination ecophysiology of <i>Juniperus drupacea</i> at the westernmost area of its global distribution (Mt. Parnon, Greece)
P25	<b>Marta Pérez:</b> Physiological and molecular mechanisms of <i>Lepidium sativum</i> seed longevity and vigour
P26	<b>Deshika L Muthuthanthirige:</b> Ecophysiology seed traits of Devil's claw ( <i>Martynia annua</i> ; Martyniaceae)
P27	<b>Raquel Gasparini:</b> What method is the best? Comparison between different smoke treatments on the germination of Cerrado species
P28	<b>Valter Di Cecco:</b> Seed colour reveals the bet-hedging strategy in an endemic species of Central Apennines (Italy): <i>Astragalus aquilanus</i>
P29	<b>Lina Podda:</b> <i>Acacia saligna</i> and <i>Vachellia karroo</i> : germination ecophysiology of two invasive species in the Mediterranean Basin

List of participants		
Name	Country	E-mail
Acevedo Limón, Lucía	Spain	<a href="mailto:lucia.acevedo@uca.es">lucia.acevedo@uca.es</a>
Acosta Rojas, Diana Carolina	Germany	<a href="mailto:diana.acosta@senckenberg.de">diana.acosta@senckenberg.de</a>
Aghai, Matthew	United States	<a href="mailto:matthew@droneseed.co">matthew@droneseed.co</a>
Albani Rocchetti, Giulia	Italy	<a href="mailto:giulia.albanirocchetti@uniroma3.it">giulia.albanirocchetti@uniroma3.it</a>
Arend da Silva, Isis	Australia	<a href="mailto:i.arenddasilva@uqconnect.edu.au">i.arenddasilva@uqconnect.edu.au</a>
Arnberg, Mie	Norway	<a href="mailto:mie.p.arnberg@nord.no">mie.p.arnberg@nord.no</a>
Saatkamp, Arne	France	<a href="mailto:arne.saatkamp@imbe.fr">arne.saatkamp@imbe.fr</a>
Bacchetta, Gianluigi	Italy	<a href="mailto:bacchet@unica.it">bacchet@unica.it</a>
Bracho Estévez, Claudio Açai	Spain	<a href="mailto:claudio.bracho@uca.es">claudio.bracho@uca.es</a>
Bruno, Fogliani	New Caledonia	<a href="mailto:bruno.fogliani@unc.nc">bruno.fogliani@unc.nc</a>
Bucharova, Anna	Germany	<a href="mailto:anna.lampe-bucharova@uni-marburg.de">anna.lampe-bucharova@uni-marburg.de</a>
Carlón Ruiz, Luis	Spain	<a href="mailto:lcarlon77@gmail.com">lcarlon77@gmail.com</a>
Caro Beveridge, Fernanda	Australia	<a href="mailto:fernanda.carobeveridge@uq.net.au">fernanda.carobeveridge@uq.net.au</a>
Carta, Angelino	Italy	<a href="mailto:angelino.carta@unipi.it">angelino.carta@unipi.it</a>
Castillo-Lorenzo, Elena	United Kingdom	<a href="mailto:e.castillolorenzo@kew.org">e.castillolorenzo@kew.org</a>
Chandler, Jake Owen	United Kingdom	<a href="mailto:jake.chandler@rhul.ac.uk">jake.chandler@rhul.ac.uk</a>
Chen, Si-Chong	China	<a href="mailto:chensichong0528@gmail.com">chensichong0528@gmail.com</a>
Chmielarz, Paweł	Poland	<a href="mailto:pach@man.poznan.pl">pach@man.poznan.pl</a>
Copete Carreño, Miguel Ángel	Spain	<a href="mailto:miguel.copete@uclm.es">miguel.copete@uclm.es</a>
Copete Carreño, María Elena	Spain	<a href="mailto:mariaelena.copete@uclm.es">mariaelena.copete@uclm.es</a>
Cruz Tejada, Diana María	Italy	<a href="mailto:d.cruztejada@studenti.unipi.it">d.cruztejada@studenti.unipi.it</a>
Cuena-Lombraña, Alba	Italy	<a href="mailto:albacuena@gmail.com">albacuena@gmail.com</a>
Daskalakou, Evangelia	Greece	<a href="mailto:edaskalakou@gmail.com">edaskalakou@gmail.com</a>
Davies, Rachael	United Kingdom	<a href="mailto:rachael.davies@kew.org">rachael.davies@kew.org</a>
Dayrell, Roberta	Germany	<a href="mailto:Roberta.Dayrell@biologie.uni-regensburg.de">Roberta.Dayrell@biologie.uni-regensburg.de</a>
Del Vecchio, Silvia	Italy	<a href="mailto:silvia.delvecchio@unive.it">silvia.delvecchio@unive.it</a>
Di Cecco, Valter	Italy	<a href="mailto:valter.dicecco@parcomajella.it">valter.dicecco@parcomajella.it</a>
Di Martino, Luciano	Italy	<a href="mailto:luciano.dimartino@parcomaiella.it">luciano.dimartino@parcomaiella.it</a>
Di Musciano, Michele	Italy	<a href="mailto:michele.dimusciano@univaq.it">michele.dimusciano@univaq.it</a>
Dickie, John	United Kingdom	<a href="mailto:j.dickie@kew.org">j.dickie@kew.org</a>
Espinosa del Alba, Clara	Spain	<a href="mailto:espinosaclara@uniovi.es">espinosaclara@uniovi.es</a>

Eycott, Amy Elizabeth	Norway	<a href="mailto:amy.eycott@nord.no">amy.eycott@nord.no</a>
Fatelnig, Lena	United Kingdom	<a href="mailto:lena.fatelnig@rhul.ac.uk">lena.fatelnig@rhul.ac.uk</a>
Fernández-Pascual, Eduardo	Spain	<a href="mailto:fernandezpeduardo@uniovi.es">fernandezpeduardo@uniovi.es</a>
Fidelis, Alessandra	Brazil	<a href="mailto:alessandra.fidelis@unesp.br">alessandra.fidelis@unesp.br</a>
Filip, Vandelook	Belgium	<a href="mailto:filip.vandelook@botanicgardenmeise.be">filip.vandelook@botanicgardenmeise.be</a>
Fois, Mauro	Italy	<a href="mailto:foisma@yahoo.it">foisma@yahoo.it</a>
Fuzessy, Lisieux	Spain	<a href="mailto:lfuzessy@gmail.com">lfuzessy@gmail.com</a>
Gálvez Ramírez, Cándido	Spain	<a href="mailto:candido@semillasilvestres.com">candido@semillasilvestres.com</a>
Gamarra, Roberto	Spain	<a href="mailto:roberto.gamarra@uam.es">roberto.gamarra@uam.es</a>
García, Daniel	Spain	<a href="mailto:danielgarcia@uniovi.es">danielgarcia@uniovi.es</a>
Gasparini Martins, Raquel	Brazil	<a href="mailto:rg.martins@unesp.br">rg.martins@unesp.br</a>
González-García, Víctor	Spain	<a href="mailto:victor_pola97@hotmail.com">victor_pola97@hotmail.com</a>
Greta, Ivesdal	United States	<a href="mailto:thomas.roman@ife-edu.eu">thomas.roman@ife-edu.eu</a>
Guja, Lydia	Australia	<a href="mailto:Lydia.Guja@environment.gov.au">Lydia.Guja@environment.gov.au</a>
Hay, Fiona	Denmark	<a href="mailto:fiona.hay@agro.au.dk">fiona.hay@agro.au.dk</a>
Hernández-Mendoza, Vanessa	Mexico	<a href="mailto:bea.custodio13@gmail.com">bea.custodio13@gmail.com</a>
Herranz Sanz, José María	Spain	<a href="mailto:jose.herranz@uclm.es">jose.herranz@uclm.es</a>
Hoyle, Gemma	Australia	<a href="mailto:Gemma.Hoyle@environment.gov.au">Gemma.Hoyle@environment.gov.au</a>
Isla, Jorge	Spain	<a href="mailto:jorge.isla@ebd.csic.es">jorge.isla@ebd.csic.es</a>
Jiménez-Alfaro, Borja	Spain	<a href="mailto:jimenezalfaro@uniovi.es">jimenezalfaro@uniovi.es</a>
Khajeh-Hosseini, Mohammad	Iran	<a href="mailto:agr844@gmail.com">agr844@gmail.com</a>
Kildisheva, Olga	United States	<a href="mailto:olga.kildisheva@gmail.com">olga.kildisheva@gmail.com</a>
Kourmpetli, Sofia	United Kingdom	<a href="mailto:s.kourmpetli@cranfield.ac.uk">s.kourmpetli@cranfield.ac.uk</a>
Lázaro-Lobo, Adrián	Spain	<a href="mailto:adrianlalobo@gmail.com">adrianlalobo@gmail.com</a>
Lepková, Barbora	Czech Republic	<a href="mailto:barbora.lepkova@natur.cuni.cz">barbora.lepkova@natur.cuni.cz</a>
Leubner-Metzger, Gerhard	United Kingdom	<a href="mailto:Gerhard.Leubner@rhul.ac.uk">Gerhard.Leubner@rhul.ac.uk</a>
López Almeida, Gloria	Spain	<a href="mailto:calidad@semillasilvestres.com">calidad@semillasilvestres.com</a>
López Camacho, Adolfo	Spain	<a href="mailto:administracion@semillasilvestres.com">administracion@semillasilvestres.com</a>
Lourenço Zirondi, Heloiza	Brazil	<a href="mailto:heloiza.l.zirondi@unesp.br">heloiza.l.zirondi@unesp.br</a>
Luna, Belén	Spain	<a href="mailto:Belen.Luna@uclm.es">Belen.Luna@uclm.es</a>
Magrini, Sara	Italy	<a href="mailto:magrini@unitus.it">magrini@unitus.it</a>
Malavert, Cristian	Argentina	<a href="mailto:malavert@agro.uba.ar">malavert@agro.uba.ar</a>
Mašková, Tereza	Germany	<a href="mailto:terezapechova@gmail.com">terezapechova@gmail.com</a>
McInnes, Sarah Jane	Australia	<a href="mailto:s.mcinnnes@student.unsw.edu.au">s.mcinnnes@student.unsw.edu.au</a>
Medrán Viñas, Ángela	Spain	<a href="mailto:angela@semillasilvestres.com">angela@semillasilvestres.com</a>

Mondoni, Andrea	Italy	<a href="mailto:andrea.mondoni@unipv.it">andrea.mondoni@unipv.it</a>
Muñoz Gallego, Raquel	Spain	<a href="mailto:rmunoz@imedea.uib-csic.es">rmunoz@imedea.uib-csic.es</a>
Muñoz Rojas, Miriam	Spain	<a href="mailto:mmunnoz1@us.es">mmunnoz1@us.es</a>
Muthuthanthirige, Deshika	Belgium	<a href="mailto:deshikalm@gmail.com">deshikalm@gmail.com</a>
Oikonomidis, Spyridon	Greece	<a href="mailto:soikonomidis@biol.uoa.gr">soikonomidis@biol.uoa.gr</a>
Ooi, Mark	Australia	<a href="mailto:mark.ooi@unsw.edu.au">mark.ooi@unsw.edu.au</a>
Ordóñez Parra, Carlos Andrés	Colombia	<a href="mailto:carlos.ordonez.parra@gmail.com">carlos.ordonez.parra@gmail.com</a>
Ortúñez, Emma	Spain	<a href="mailto:emma.ortunez@uam.es">emma.ortunez@uam.es</a>
Papouskova, Ludmila	Czech Republic	<a href="mailto:papouskova@vurv.cz">papouskova@vurv.cz</a>
Paroissien, Ruby	Australia	<a href="mailto:r.paroissien@unsw.edu.au">r.paroissien@unsw.edu.au</a>
Pawłowski, Tomasz Andrzej	Poland	<a href="mailto:tapawlow@man.poznan.pl">tapawlow@man.poznan.pl</a>
Pérez, Héctor	United States	<a href="mailto:heperez@ufl.edu">heperez@ufl.edu</a>
Pérez Suárez, Marta	United Kingdom	<a href="mailto:Marta.Perez@rhul.ac.uk">Marta.Perez@rhul.ac.uk</a>
Phartyal, Shyam S	India	<a href="mailto:shyamphartyal@gmail.com">shyamphartyal@gmail.com</a>
Pinzani, Lorenzo	Italy	<a href="mailto:lorenzo.pinzani@phd.unipi.it">lorenzo.pinzani@phd.unipi.it</a>
Piñas Bonilla, Paula	Spain	<a href="mailto:paula.pinas@uclm.es">paula.pinas@uclm.es</a>
Ramírez Chueca, Esteban	Spain	<a href="mailto:esteban.ramirez@uam.es">esteban.ramirez@uam.es</a>
Rosbakh, Sergey	Germany	<a href="mailto:sergey.rosbakh@ur.de">sergey.rosbakh@ur.de</a>
Serra-Díaz, Josep M	France	<a href="mailto:pep.serradiaz@agroparistech.fr">pep.serradiaz@agroparistech.fr</a>
Silveira, Fernando AO	Brazil	<a href="mailto:faosilveira@gmail.com">faosilveira@gmail.com</a>
Tangney, Ryan	Australia	<a href="mailto:R.tangney@unsw.edu.au">R.tangney@unsw.edu.au</a>
Tavsanoğlu, Cagatay	Turkey	<a href="mailto:ctavsanoğlu@gmail.com">ctavsanoğlu@gmail.com</a>
Trotta, Giacomo	Italy	<a href="mailto:giacomo.trotta@phd.units.it">giacomo.trotta@phd.units.it</a>
Valdelvira Medina, Guillermo	Spain	<a href="mailto:guill.v.m.1998@gmail.com">guill.v.m.1998@gmail.com</a>
Vazquez-Ramirez, Jeronimo	Australia	<a href="mailto:jvazquezramirez@deakin.edu.au">jvazquezramirez@deakin.edu.au</a>
Venceslai, Nahema	United Kingdom	<a href="mailto:nahema.venceslai.2020@live.rhul.ac.uk">nahema.venceslai.2020@live.rhul.ac.uk</a>
Villa, Sara	Italy	<a href="mailto:sara.villa1@unimi.it">sara.villa1@unimi.it</a>
Vuerich, Marco	Italy	<a href="mailto:marco.vuerich@uniud.it">marco.vuerich@uniud.it</a>
Wawrzyniak, Mikołaj	Poland	<a href="mailto:mikwaw@man.poznan.pl">mikwaw@man.poznan.pl</a>
White, Fiona	Italy	<a href="mailto:fionajane.white01@universitadipavia.it">fionajane.white01@universitadipavia.it</a>