

# Mix4Agroecology

Conference

Mixing crops,  
varieties, disciplines  
and know-hows  
for agroecology

## Booklet of Abstracts

AgroParisTech,  
Paris-Saclay, France

7-9 October  
2026



Program  
& informations



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Variety mixtures, heterogeneous populations and species co-cultivation (for example cereal-legume associations) are increasingly recognised as key levers for agroecological transition. These approaches can substantially reduce reliance on pesticides and synthetic fertilisers while improving yield stability under growing climatic uncertainty.

This conference aims to bring together the international scientific community engaged in research on crop diversification. The event will showcase the latest scientific advances in crop mixtures and foster dialogue among international research groups working on varietal and species diversification. It also seeks to strengthen the interdisciplinary collaborations needed to explore emerging scientific questions and to address the technical, agronomic and socio-economic challenges limiting the wider adoption of these practices.

Program and more information on  
<https://mix4agroecology.colloque.inrae.fr>

## Program at a glance

### Wednesday 7th

9 am

**Plenary session**  
Amphitheater B1.01

10.30 am Coffee break  
12.30 pm Lunch  
3.30 pm Coffee break

7 pm

Gala dinner & concert by Ziveli

### Thursday 8th

9 am

**Impact of plant diversity on the extended phenotype**  
Session 2  
Room C1.2.04 (Building C)

10.30 Coffee break

**Plant Models to decipher plant-plant interactions**  
Session 3  
Amphitheater A - 1

**Designing mixtures for agroecological value chains**  
Session 5 (1/2)  
Amphitheater B1.01

**Can plant diversification promote a more efficient soil functioning and nutrient cycling?**  
Session 6 - Amphitheater B0.01

12.30 pm

Lunch (buffet)

2 pm

**Breeding for inter-individual interactions: from theory to practice**  
Session 1 (1/2) - Amphi B1.01

3.30 Coffee break

**Eco-evolutionary dynamics of pathogens in diversified fields**  
Session 4  
Amphitheater A - 1

**Out-scaling agroecology: transformative sciences**  
Session 7.A  
Amphitheater B0.01

6:30 pm

Poster and artwork session + Toasts & bread tasting (drinks and snacks) *Dinner on your own if toasts are not enough for you*

### Friday 9th

9 am

**Breeding for inter-individual interactions: from theory to practice**  
Session 1 (2/2) - Amphi B0.01

10.30 Coffee break

**Designing mixtures for agroecological value chains**  
Session 5 (2/2)  
Amphitheater A - 1

**Out-scaling agroecology: comprehensive approaches**  
Session 7.B  
Room C1.0.06 (Building C)

12.30 pm

Lunch (lunchboxes)



## Organizing committee

- Executive board: Jean-Benoit Morel and Jérôme Enjalbert
- Marianne Laurençon, Elodie Yan, Michel Amphoux and Lisbeth Michel
- Timothée Flutre, Isabelle Goldringer and Céline Bourhis-Lézier
- Sébastien Barot, Laurent Bedoussac, Elsa Berthet, Nathalie Colbach, Cyril Firmat, Sébastien Fontaine, Elisabeth Fournier, Bernadette Julier, Eric Justes, Gaëtan Louarn, Dan Milbourne, Delphine Moreau, Audrey Niboyet, Raphaël Paut, Mathieu Thomas and Tiphaine Vidal
- Plume Sciences: Alice Vettoretti and Noa N'Diaye

## Scientific committees of the Symposia

### Symposium 1

Germain Montazeaud  
Timothée Flutre  
Aduardo Cappa  
Ingrid David  
Arnaud Desbiez-Piat  
Luciano Pecetti  
Florence Phocas

### Symposium 2

Jean-Benoit Morel  
Louis-Valentin Méteignier  
Velemir Nincovik  
Foteini Paschalidou

### Symposium 3

Nathalie Colbach  
Delphine Moreau  
Christophe Pradal  
Jochem Evers  
Gaëtan Louarn

### Symposium 4

Tiphaine Vidal  
Elisabeth Fournier  
Clémentine Allinne  
Marie Launay  
Christophe Le May  
Loup Rimbaud  
Aurélien Tellier

### Symposium 5

Laurent Bedoussac  
Nathalie Moutier  
Safia Mediene  
Raphaël Paut

### Symposium 6

Audrey Niboyet  
Sébastien Barot  
Sébastien Fontaine

### Symposium 7

Mathieu Thomas  
Elsa Berthet  
Isabelle Arpin  
Philippe Baret  
Sébastien Chaliès  
Cyril Firmat  
Isabelle Goldringer  
Laurent Hazard

*We would like to thank the committee members and all our sponsors for their support.*

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## Wednesday 7th October

### Plenary session - Amphitheater B1.01

8:00 – 9:00 am – Welcoming participants and coffee break (Forum, AgroParisTech Hall)

**9:00 – 9:20 Launch of the conference + Welcoming by MoBiDiv, IntercropValues, IPMORAMA**

Jérôme Enjalbert & Jean-Benoit Morel + 9:10 Aline Fugerey-Scarbel, Eric Justes and Tiphaine Vidal

**9:20 – 10:05 Introduction: Diversification, from landscape to field**

Delphine Renard – Crop diversity as an asset for agricultural resilience

9:50 Elodie Yan – Benefits and adoption dynamics of variety and species mixtures in France: where do we stand?

**10:05 – 10:35 Designing mixtures with ecophysiological models**

Jochem Evers – Improving our understanding of plant-plant interactions in mixed crops, using 3D plant modelling

10:35 – 11:00 am – Coffee break (Forum, AgroParisTech Hall)

**11:00 – 11:30 Designing mixtures with ecophysiological models**

Nathalie Colbach – Mixing knowledge and disciplines into a mechanistic model for designing crop mixtures for agroecological weed management

11:15 Saba Mediene – Designing crop mixtures using the trait-function-service ecological framework

**11:30 – 12:30 The ecology of biological interactions in mixtures**

Philippe Hinsinger – Soil ecology and biogeochemistry in diversified agroecosystems: integrating belowground interactions in depth and at depth

12:00 Anna-Liisa Laine – Harnessing biodiversity-ecosystem functioning relationships to guide sustainable agriculture

12:30 – 2:00 pm – Lunch (Forum, AgroParisTech Hall)

**2:00 – 2:45 The ecology of biological interactions in mixtures**

Laura Mathieu – Beyond intrinsic resistance: integrating neighbor genetic effects to predict disease suppression in wheat mixtures

14:15 Aurélien Tellier – An epidemiology-population genetics framework to infer host x parasite loci of interactions from genome-wide polymorphism data

**2:45 – 3:30 Genetics and breeding of inter-individual/social interactions**

Piter Bijma – Genetic improvement in animal and plant breeding when individuals interact

15:15 Hélène Fréville – Varietal Mixtures Through The Lens Of Kin Selection

3:30 – 4:00 pm – Coffee break (Forum, AgroParisTech Hall)

**4:00 – 4:15 Genetics and breeding of inter-individual/social interactions**

Isabelle Goldringer – Intra- and inter-specific mixing of populations: participatory on farm breeding and field trials, within processing chains and organisations

**4:15 – 6:00 Mixing for out-scaling agroecology**

Henrik Haugaard-Nielsen – An interdisciplinary trajectory from grain legume-cereal niche complementarity to agroecological land and food innovations

16:45 Maria Finckh – Biodiversity, Agroecology and One Health. Perspectives for a healthy Agri-Culture

17:15 Elsa Berthet & Mathieu Thomas – Democracy in transformative research. Lessons from experiences in the field of crop diversity management

**6:00 – 6:30 Agroecology: twenty Years and One Day**

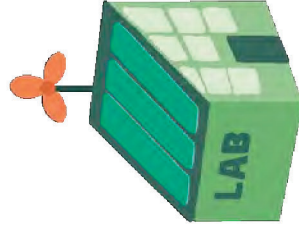
Philippe Baret

7:00 – 11:30 pm – Opening Gala (Forum, AgroParisTech Hall)

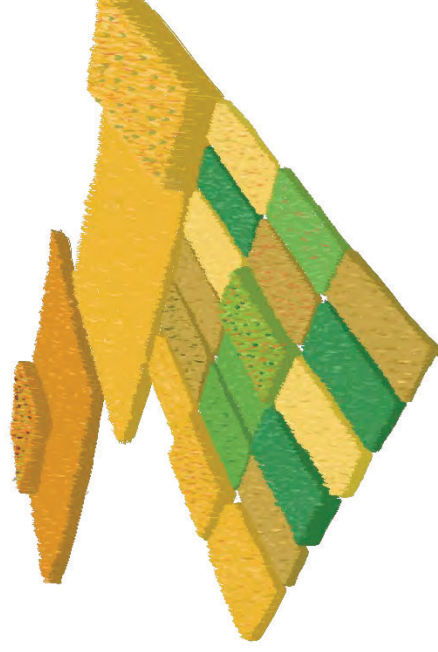


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| <p><b>2. Impact of plant diversity on the extended phenotype</b><br/>Room C1.2.04 (Building C)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>3. Plant Models to decipher plant-plant interactions</b><br/>Amphitheater A-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p><b>5. Designing mixtures for agroecological value chains</b><br/>Amphitheater B1.01</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p><b>6. Can plant diversification promote a more efficient soil functioning and nutrient cycling?</b><br/>Amphitheater B0.01</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>09:00-09:05</b> Introduction Symposium 2<br/><i>Jean-Benoît Morel</i></p> <p><b>09:05-09:45</b> Plant-plant interactions; competition, environmental signals and plasticity<br/><i>Franca J Bongers</i></p> <p><b>09:45-10:00</b> Wheat mixtures alter root water uptake and plant architecture: non-additive modulation of traits under water deficit<br/><i>Samuel Le Gall</i></p> <p><b>10:00-10:15</b> Breaking down the effects of companion planting on oilseed rape phenotype: physiological, pest management, and agronomic implications<br/><i>Laurie Magnin</i></p> <p><b>10:15-10:30</b> Priming at a distance: the role of oviposition-induced volatiles in plant defences against herbivory<br/><i>Foteini Pashalidou</i></p> | <p><b>09:00 - 09:05</b> Introduction<br/><i>Nathalie Colbach, Gaëtan Louarn, Delphine Moreau</i></p> <p><b>09:05-09:30</b> Bridging modelling cultures to study intercropping systems for the agroecological transition<br/><i>Noémie Gaudio, Marie Launay</i></p> <p><b>09:30-09:45</b> LUCIA-Intercrop: A New Module for Simulating Competition for Light, Water, and Nutrients in Intercrop Systems<br/><i>Adam Muhammad Adam, Carsten Marohn, Georg Cadisch</i></p> <p><b>09:45-10:00</b> Parameterisation and sensitivity analysis of perihizal zone processes for winter wheat<br/><i>Erik Kopp</i></p> <p><b>10:00-10:15</b> Modelling the effects of plant-plant interactions on wheat tillering in wheat-alfalfa intercropping<br/><i>Gaëtan Louarn</i></p> <p><b>10:15-10:20</b> Flash presentation of posters<br/><i>Clara Oliva Gonçalves Bazzo, Daniel Pasquel, Boubacar Adama Traore, Nathalie Colbach, Delphine Moreau</i></p> | <p><b>09:00-09:15</b> Exploring the challenges and opportunities of using companion plants in apple orchards<br/><i>Julie Borg, Laure Perchepeid</i></p> <p><b>09:15-09:30</b> Grain Legumes at the Nexus of Intercropping Systems and Agroecological Transition: Barriers and Potentials from a Swedish case study<br/><i>Iman Raj Chongtham</i></p> <p><b>09:30-09:45</b> Species mixtures beyond the farm: the role of grain collection organisation<br/><i>Esther Fouillet</i></p> <p><b>09:45-10:00</b> Legume integration modes in French cropping systems often imply intercropping<br/><i>Simon Buresi</i></p> <p><b>10:15-10:30</b> Flash presentation of posters<br/><i>Matteo Petitti, Thierry Marcel, Alain Baranger, Ratha Rien, Louise Blanc, Justine Van Merhaeghe, Indri Fariorh, Madhuri Paul, Daniele Cavalli, Odette Weedon, Alexandro Ferreira, Christine Dillmann, Matteo Petitti, Nuno Bischofberger</i></p> | <p><b>09:00-09:05</b> Introduction: Can plant diversification promote a more efficient soil functioning and nutrient cycling?<br/><i>Audrey Niboyet, Sébastien Barot, Sébastien Fontaine</i></p> <p><b>09:05-09:30</b> How intercropping sustains stable crop productivity and healthy soils? Evidence from long-term field experiments<br/><i>Long Li</i></p> <p><b>09:30-09:50</b> Shifts in Rhizosphere Microbiomes and Soil Multifunctionality Driven by Cereal-Legume Intercropping and Fertilization Management Across Europe<br/><i>Shamina Imran Pathan</i></p> <p><b>09:50-10:10</b> Straw incorporation stimulated the intercropping effect to enhance soil carbon sequestration<br/><i>Yiwen Zhao</i></p> <p><b>10:10-10:30</b> The intercropping of fava bean with winter wheat without nitrogen application supports the crop performance with a reduced risk of nitrogen losses<br/><i>Riccardo Picone</i></p> |

10:30 - 11:00 am - Coffee break (Forum, AgroParisTech Hall)



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| <b>2. Impact of plant diversity on the extended phenotype</b><br>Room C1.2.04 (Building C) | <p><b>11:00-11:30</b> Genotype-Specific VOC Signalling Drives Aphid Suppression in Cultivar Mixtures<br/><i>Velemir Ninkovic</i></p> <p><b>11:30-11:45</b> Interspecific transfer of a root exudate cocktail is linked to root chromatin reprogramming and systemic chemical defenses in rice<br/><i>Louis-Valentin Méteignier</i></p> <p><b>11:45-12:00</b> How do neighboring wheat genotypes modulate susceptibility to <i>Septoria tritici blotch</i>?<br/><i>Laura Mathieu</i></p> <p><b>12:00-12:15</b> Plant-plant interactions shape legume nitrogen-fixing symbiosis: genetic and ecophysiological insights from brassicaceae-legume interactions<br/><i>Mathieu Hanemian</i></p> <p><b>12:15-12:25</b> Concluding remarks<br/><b>Symposium 2</b><br/><i>Jean-Benoit Morel</i></p> | <b>3. Plant Models to decipher plant-plant interactions</b><br>Amphitheater A-1 | <p><b>11:00-11:15</b> Assessing intercrop performance under contrasting water regimes in Mediterranean conditions using the STICS soil-crop model<br/><i>Louise Blanc</i></p> <p><b>11:15-11:30</b> Macroscopic dynamical models for diversified cropping systems<br/><i>Azenor Bideault</i></p> <p><b>11:30-11:45</b> Species trait combinations drive yield partitioning more than total yield in a cereal/legume intercropping system<br/><i>Dereje Demie</i></p> <p><b>11:45-12:00</b> Identification of complementary variety traits for high-performing wheat variety mixtures<br/><i>Laura Stefan</i></p> <p><b>12:00-12:15</b> Nitrogen stress makes legumes more competitive against weeds in intercrops: a simulation study<br/><i>Aurélie Baquet</i></p> | <b>5. Designing mixtures for agroecological value chains</b><br>Amphitheater B1.01 | <p><b>11:00-11:15</b> Importance of plant dominance in the design of complex service plant mixtures<br/><i>Xavier Bousselin</i></p> <p><b>11:15-11:30</b> Higher plant diversity increased yields of grassland leys more than application of nitrogen fertiliser, and forage legumes controlled legacy effects in a subsequent crop<br/><i>John Finn</i></p> <p><b>11:30-11:45</b> Impact of pea genotypes on their performance in intercropping with different species<br/><i>Alice Baux</i></p> <p><b>11:45-12:00</b> Cultivars impact competition-induced complementarity for nitrogen in intercrops<br/><i>Virgilio Freitas</i></p> <p><b>12:00-12:15</b> Towards intercrop-adapted varieties: exploring links between phenotypic traits and performance in cereal-legume mixtures<br/><i>Julien Leuenberger</i></p> | <b>6. Can plant diversification promote a more efficient soil functioning and nutrient cycling?</b><br>Amphitheater B0.01 | <p><b>11:00-11:20</b> Combining wheat with multi-species prairie strips: effects on aboveground nitrogen production, symbiotic fixation and soil nitrogen dynamics<br/><i>Lisa Besson</i></p> <p><b>11:20-11:40</b> Effect of crop spatial heterogeneity on above- and below-ground biodiversity at the field scale in a tropical agroecological market-gardening cropping system<br/><i>Oliva Razafimaheta</i></p> <p><b>11:40-12:00</b> Relationships between vegetable intercropping performance, soil properties, and microbiota: Insights from a participatory study with gardeners and market gardeners<br/><i>Léonie Falgout</i></p> <p><b>12:00-12:30</b> General discussion - Can plant diversification promote a more efficient soil functioning and nutrient cycling?<br/><i>Audrey Niboyet, Sébastien Barot, Sébastien Fontaine</i></p> |
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| <p><b>1. Breeding for inter-individual interactions: from theory to practice</b><br/>Amphitheater B1.01</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>4. Eco-evolutionary dynamics of pathogens in diversified fields</b><br/>Amphitheater A-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p><b>7.A. Out-scaling agroecology: transformative sciences</b><br/>Amphitheater B0.01</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>2:00-2:30</b> Genetic analysis and improvement of social interactions among individuals in group-housed populations of livestock<br/><i>Piter Bijma</i></p> <p><b>2:30-2:50</b> How to breed fish on socially affected traits involving heterogeneous social behaviours?<br/><i>Florence Phocas</i></p> <p><b>2:50-3:10</b> Simulation study of a fish breeding scheme accounting for social effects, using varying selection strategies, group sizes, and dilution of social effects<br/><i>Tristan Kistler</i></p> <p><b>3:10-3:30</b> Identifying genetic and social determinants of stress resilience in cage-free laying hens<br/><i>Justine Chartrain</i></p> | <p><b>2:00-2:15</b> General introduction of Symposium 4<br/><i>Tiphaine Vidal</i></p> <p><b>2:15-2:30</b> A population genetics framework to infer host x parasite loci of interactions from genome-wide polymorphism data<br/><i>Aurélien Tellier</i></p> <p><b>2:30-2:45</b> Eco-evolutionary Dynamics of Zymoseptoria tritici Populations in Wheat Cultivar Mixtures<br/><i>Chloé Papin</i></p> <p><b>2:45-3:00</b> Formalization of plant-plant-pathogen interactions in the Biodiversity Ecosystem-Functioning Framework : case study in wheat varietal mixtures<br/><i>Maxence Remérand</i></p> <p><b>3:00-3:15</b> Evaluating the reliability of a coupled crop-disease model for simulating intercropping effects on aerial fungal diseases<br/><i>Audrey Deheintzelin</i></p> <p><b>3:15-3:30</b> Intercropping chickpea with oat combined with inter-row mowing reduces ascochyta blight severity along the main axis and alters the shoot architecture<br/><i>Margaux Guy</i></p>                                                                      | <p><b>2:00-2:05</b> Introduction of the session<br/><i>Elsa Berthet</i></p> <p><b>2:05-2:50</b> When agroecology and transdisciplinary research meet: four matters of concern<br/><i>Isabelle Arpin, Kewan Mertens</i></p> <p><b>2:50-3:10</b> Expanding the repertoire of experiments for transformative research on crop mixtures<br/><i>Léa Collin</i></p> <p><b>3:10-3:30</b> When "doing science with others" turns out to be an opportunity for "career transition" for scientists in the context of the agroecological transition<br/><i>Mathieu Thomas</i></p>                                                                                                                                                                                                                                                                                                                                                |
| <p><b>4:00-4:20</b> Statistical models to analyze oat accessions for their value in oat/pea intercrops<br/><i>Jean-Luc Jannink</i></p> <p><b>4:20-4:40</b> Mechanisms of indirect genetic effects in outbred laboratory rodents and beyond<br/><i>Amelie Baud</i></p> <p><b>4:40-5:00</b> Impact of selecting for social breeding value on a realistic genotype-environment-phenotype map: a simulation-based study on wheat-pea intercrops<br/><i>Timothée Flutre</i></p> <p><b>5:00-5:20</b> Plastic responses for intercrop functioning: should we select for more plasticity?<br/><i>Franca Bongers</i></p>                                                           | <p><b>3:30 - 4:00 pm – Coffee break (Forum, AgroParisTech Hall)</b></p> <p><b>4:00-4:15</b> Multi-facets of intercropping for suppressing soil-borne disease in faba bean<br/><i>Rui-Peng Yu</i></p> <p><b>4:15-4:30</b> Host genotype and agroecological practices generate context-dependent Fusarium wilt dynamics in diversified banana systems under Foc TR4 pressure<br/><i>Pinkham Vongphachanh</i></p> <p><b>4:30-4:45</b> Deciphering the mechanisms of crop disease regulation by cover crops and tree hedges: a functional approach applied to grapevine downy mildew<br/><i>Charlotte Poeydebat</i></p> <p><b>4:45-5:00</b> Agrobiodiversity as a foundation for cocoa tree health through pests and diseases regulation and resources access pathways<br/><i>Marie-Thérèse Morisson</i></p> <p><b>5:00-5:15</b> Wrap-up and concluding remarks of symposium 4<br/><i>Tiphaine Vidal</i></p> <p><b>5:15-5:30</b> Symposium 4: presentation of posters<br/><i>Subhasish Basak, Marie Guyard, Manu Affichard, Marion Mesnil, Johnny Louangphanh</i></p> | <p><b>4:00-4:20</b> Co-creating adapted high-genetic-diversity cultivars for organic agriculture through a European network of Living Labs<br/><i>Mariateresa Lazzaro</i></p> <p><b>4:20-4:40</b> Exploring the Potential of Farmers' Wheat Cultivars in Organic Conservation Agriculture in Western France<br/><i>Stephanie Klaedtke</i></p> <p><b>4:40-4:50</b> Co-designing Agroecological Innovations in Semi-Arid Areas: Pathways and Impacts within the Tunisian Agroecological Living Lab<br/><i>Hatem Cheikh M'Hamed</i></p> <p><b>4:50-5:10</b> A transdisciplinary network to study, co-construct and experiment with vegetable crop associations in urban areas<br/><i>Camille Dumat</i></p> <p><b>5:10-5:20</b> Flash presentation of posters<br/><i>Morgane De Toeuf, Matteo Pettiti, Paul Fauchon</i></p> <p><b>5:20-5:30</b> Wrap-up of the session and concluding remarks<br/><i>Elsa Berthet</i></p> |
| <p><b>6:30 - 09:00 pm – Poster and artwork session + Toasts and bread tasting (Forum, AgroParisTech Hall)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| <p><b>1. Breeding for inter-individual interactions: from theory to practice</b><br/>Amphitheater B0.01</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>5. Designing mixtures for agroecological value chains</b><br/>Amphitheater A-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p><b>7.B. Out-scaling agroecology: comprehensive approaches</b><br/>Room C1.0.06 (Building C)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p><b>09:00-09:20</b> Cultivar mixtures improve grain yield and yield stability in winter wheat: insights from over 20 years of official trials<br/><i>Dario Fè</i></p> <p><b>09:20-09:40</b> Spatial Heterogeneity of Disease Infection Attributable to Neighbour Genotypic Identity in Barley Cultivars<br/><i>Iqra Akram</i></p> <p><b>09:40-10:00</b> gwasarmix: a simulation framework to optimize experimental designs for dissecting indirect genetic effects in varietal mixtures.<br/><i>Germain Montazeaud</i></p> <p><b>10:00-10:20</b> Joint analysis of monovarietal and mixed stand performances to study the genetic architecture of indirect genetic effects in wheat cultivar mixtures<br/><i>Maxence Remérand</i></p> | <p><b>09:00-09:15</b> Improving soybean yield in relay-cropping under water stress: from genotype selection to cropping system management<br/><i>Lea Kervroëdan</i></p> <p><b>09:15-09:30</b> Weed management in organic grain legumes: effects of cereal-legume intercropping and chickpea Rhizobium inoculation in an on-farm experimental network across two northern French regions<br/><i>Blandine Renault</i></p> <p><b>09:30-09:45</b> Impact of a lucerne living mulch managed by mowing in alternate rows with winter cereals in organic farming<br/><i>Jérôme Labreuche</i></p> <p><b>09:45-10:00</b> Effects of mechanized wide-strip intercropping integrated with soil fertility improvement practices on crop productivity and soil fertility: evidence from field experiment and large-scale commercial production<br/><i>Qi-Chang Yang</i></p> <p><b>10:00-10:15</b> The IntercropVALUES experimental network: overyielding in contemporary intercropping in- and outside Europe depends on fertilization strategies<br/><i>Timothé Wantz</i></p>                                                                                                                                                                                                                | <p><b>09:00-09:05</b> Introduction of the session<br/><i>Mathieu Thomas</i></p> <p><b>09:05-09:25</b> Remembering resilience: Drawing on traditional cereal species mixtures to build resilience in our staple crops in Ethiopia and beyond<br/><i>Alex McAlway</i></p> <p><b>09:25-09:45</b> Why Farmers Plant Crop Mixtures: Ethnobotanical Perspectives from Ethiopia<br/><i>Morgan Ruelle</i></p> <p><b>09:45-10:05</b> Understanding on-farm species mixtures' pathways with the action logic framework<br/><i>Grinner, Esther Fouillet</i></p> <p><b>10:05-10:25</b> Mixing Crops, Trees and Know-How for Mediterranean Agroecology: The RevAgroForMed Living Lab Approach<br/><i>Gaio Cesare Pacini</i></p> |
| <p><b>11:00-11:20</b> Dissecting the genetic architecture of direct and social genetic values: case study in wheat-pea intercrops<br/><i>Jemay Salomon</i></p> <p><b>11:20-11:40</b> Breeding for mixtures: heritable plant-plant interactions and selection strategies in a durum wheat-alfalfa intercrop<br/><i>Nicolas Salas</i></p> <p><b>11:40-12:00</b> Genetic determinants of maize-bean intercropping performance in European landraces<br/><i>Noa Vazeux-Blumental</i></p>                                                                                                                                                                                                                                                    | <p><b>11:00-11:10</b> Yield Stability, Grain Quality, and Resource-Use Efficiency in Cereal-Legume Intercropping Systems: Insights from Europe-Wide Living Labs<br/><i>Shamina Imran Pathan</i></p> <p><b>11:10-11:20</b> Participatory Agronomic Diagnosis: A Participatory Framework for Integrating Farmers' Expertise and Agronomic Science<br/><i>Michel Turbet Delof</i></p> <p><b>11:20-11:30</b> Learnings from a German co-creation case study in wheat and pea intercropping for human consumption: evaluating cultivation and processing of intercropped wheat through seven regional value chains.<br/><i>Odette Weeden</i></p> <p><b>11:30-11:40</b> Breeding for intercropping: plasticity of winter bread wheat traits between sole crop and intercrop across a diverse panel of 200 varieties<br/><i>Nathalie Moutier</i></p> <p><b>11:40-11:50</b> Extracting Design Principles for Sustainable Agricultural Systems from Data and Long-Term Ecological Experiments<br/><i>Sirio Belga Fedeli</i></p> <p><b>11:50-12:00</b> IntercropAgent: AI-assisted literature extraction for intercropping meta-analysis<br/><i>Madhuri Paul</i></p> <p><b>12:00-12:10</b> Mixing service animal and service plant concepts for agroecology<br/><i>Delphine Moreau</i></p> | <p><b>11:00-11:20</b> Growing Sorghum bicolor (L.) Moench in varietal mixtures enhances socio-ecological resilience and production reliability in Karamoja, Uganda<br/><i>Emiel De Meyer</i></p> <p><b>11:20-11:40</b> Farmer collaboration as a pathway to knowledge generation: combining agronomic and social science methods<br/><i>Marie-Thérèse Morrisson</i></p> <p><b>11:40-12:00</b> Feasible pathways to recognise mixing ability in variety testing<br/><i>Pierre Hohmann</i></p> <p><b>12:00-12:30</b> Wrap-up of the session and concluding remarks<br/><i>Mathieu Thomas</i></p> <p><b>Poster:</b> <i>AgroParisTech students coordinated by Marianne Laurençon and Elodie Yan</i></p>                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p><b>12:30 - 2:00 pm – Lunchboxes (Forum, AgroParisTech Hall)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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