



**18th Congress of the  
European Society for Agronomy**

**“Synergies for a resilient future:  
from knowledge to action”**

**Scientific program**

26 August – 30 August 2024

Rennes, France

The Couvent des Jacobins



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# 18th Congress of the European Society for Agronomy

## Monday, August 26, 2024

**Registration** - Le Péristyle (4:00 PM - 7:00 PM)

**Welcome speech** - Salon d'honneur (6:00 PM - 7:30 PM)

-Conveners: Edith Le Cadre

On this day only, the events will take place at the City Hall of Rennes (Mairie de Rennes, Place de la Mairie, Rennes) and not at the Couvent des Jacobins.

## Tuesday, August 27, 2024

### Registration - Accueil Sainte-Anne (Ground floor) (8:00 AM - 9:10 AM)

### Welcome speech - La Nef (Ground floor) (9:15 AM - 9:45 AM)

-Conveners: Edith Le Cadre

### Co-creation of knowledge and transformations in agri-food systems - La Nef (Ground floor) (9:45 AM - 10:45 AM)

-Conveners: Johanna Jacobi

### Cropping systems changes to support agro-ecological transitions - Salle 13 (1st floor) (11:20 AM - 12:50 PM)

time	[id] title	presenter
11:20 AM	[26] Is crop diversification an efficient approach to reduce pesticide use?	MUNIER-JOLAIN, Nicolas
11:35 AM	[40] Current coupled innovations for glyphosate-free agricultural systems	DUARTE MALANSKI, Priscila THIOLLET-SCHOLTUS, Marie
11:50 AM	[165] Reducing reliance on pesticides through redesigned crop management strategies has contrasting effects on economic performance across farm types	NANDILLON, Romain
12:05 PM	[334] Trade-offs in circular agriculture	SCHUT, Antonius G.T.
12:20 PM	[277] 2023: a soil odyssey—HeAted soil-Monoliths (HAL-MS) to examine the effect of heat emission from HVDC underground cables on plant growth	UHLIG, Ken
12:35 PM	[109] How can we make biodiversity conservation an objective for farmers?	BARBOTTIN, Aude

### GxExM modeling - Les Horizons (2nd floor) (11:20 AM - 12:50 PM)

time	[id] title	presenter
11:20 AM	[71] Use of a crop growth model for supporting variety choice in sunflower	DEBAEKE, Philippe
11:35 AM	[115] Genetic x management interactions with solar radiation and temperature in the critical period to achieve high cereal and canola yields	PORKER, Kenton
11:50 AM	[135] Digital lean phenotyping methods in the context of wheat variety testing – the cases of canopy temperature and phenology	SIMON, Treier
12:05 PM	[228] Modelling gene-based, trait-yield relationships in wheat to capture synergies from GxExM interactions	WANG, Enli
12:20 PM	[261] Leveraging plant variety trials for parameterization of DSSAT wheat models in Germany	SHAWON, Ashifur Rahman

### Innovative fertilizers and amendments for preserving crucial resources for agriculture - La Nef (Ground floor) (11:20 AM - 12:50 PM)

time	[id] title	presenter
11:20 AM	[150] Impact of saline water Irrigation and biostimulant use on growth and phytocannabinoid profiles in fiber hemp (Cannabis sativa L.)	FIORENTINO, Nunzio
11:35 AM	[157] From soil to yield: unraveling the role of microbiome diagnostics in enhancing biofertilizer efficiency	BODENHAUSEN, Natacha

11:50 AM	[329] Human urine precipitates as a phosphorus source for lettuce in hydroponics for long-term crewed space missions	GIMÉNEZ DE AZCÁRATE BORDÓNS, Icíar
12:05 PM	[353] Effect of bio-based phosphorus fertilization on biofortification and root architecture of durum wheat in a rainfed agrosystem under mediterranean climate	DELGADO, Antonio
12:20 PM	[360] Improving the bread making quality of winter wheat on organic farms using biogas digestate as a nitrogen fertiliser	REUMAUX, Rafaele

### **Sustainable increase of productivity - Salle 14 (1st floor) (11:20 AM - 12:50 PM)**

time	[id] title	presenter
11:20 AM	[310] How can models contribute to the design of cropping systems that meet both farmers' short-term problems and long-term objectives for sustainable weed management?	CAVAN, Nicolas
11:35 AM	[311] A multi-criteria tool for jointly assessing the sustainability and resilience of dairy farms	AUBERGER, Julie
11:50 AM	[144] Planning in uncertainty: vegetable producers and middlemen management of disturbances affecting production	GRANER, Axel HOSSARD, Laure
12:05 PM	[86] Improving soil quality while preserving farmers' income: An ecosystem services-centered conceptual framework	WANG-TOURI, Youssef
12:20 PM	[199] Use of past advisory bulletins to rebuild pest and disease historical annual pressures in French vineyards	MEROT, ANNE SMITS, Nathalie
12:35 PM	[184] Syppre, a unique experimental network to meet the sustainability objectives of agricultural systems	ESTIENNE, Marie

### **Uncovering rhizosphere microbial resilience and potential to support plant growth - La Nef (Ground floor) (2:15 PM - 3:15 PM)**

-Conveners: Mika Tarkka

### **Poster session #1 - Les Dortoirs (1st floor) (3:20 PM - 4:30 PM)**

### **Cropping systems changes to support agro-ecological transitions - Salle 13 (1st floor) (4:40 PM - 6:25 PM)**

time	[id] title	presenter
4:40 PM	[29] Improving relay intercropping of service crop in cereal systems to cope with climate change	CELETTE, Florian
4:55 PM	[170] Is rapeseed - service plants intercropping a solution to mitigate biotic stresses?	BAUX, Alice
5:10 PM	[111] Maximizing tree diversity in cocoa agroforestry: taking advantage of planted, spontaneous, and remnant Trees	KONAN, Kouamé Isaac
5:25 PM	[254] Tracking-down inter-farm collaborations to promote crop diversity	PEPIN, Antonin MOSSET, Marthe
5:40 PM	[138] Contribution of diversification to resilience capacities of agricultural systems	ARNDT, Marie
5:55 PM	[82] Higher crop diversity in less diverse agricultural landscapes in Northeastern Germany	SCHILLER, Josepha

6:10 PM	[216] The effects of increasing the intensity of legume crops or legume/oilseed mixtures in the cropping rotation at research and commercial scale in SE Australia	SWAN, Tony
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### **Managing biotic and abiotic stresses with integrated approaches - La Nef (Ground floor) (4:40 PM - 6:25 PM)**

time	[id] title	presenter
4:40 PM	[94] Interspecies diversity in morphological responses of a panel of crop and weed species to water stress	COURNAULT, Quentin
4:55 PM	[9] Which contribution do agricultural practices and biological control make to regulating populations of <i>Psylliodes chrysocephala</i> in oilseed rape?	GARDARIN, Antoine
5:10 PM	[70] Effects of light quality and quantity on tillering dynamics and investment in reproduction of the perennial grain crop <i>Thinopyrum intermedium</i>	GINOT, Christelle
5:25 PM	[154] Implementation of Halophyte/Tomato cultivation systems in Moderately Saline Soils	HERNÁNDEZ, José A.
5:40 PM	[207] Adapting « alternate wetting and drying irrigation » technique in the dry prone area using rainwater harvesting basin to strengthen climate resilience in Burkina Faso, West Africa	KIMA, Aimé Sévérin
5:55 PM	[267] Modelling fungal diseases in intercrops	DEHEINZELIN, Audrey

### **Modeling N & soil - Les Horizons (2nd floor) (4:40 PM - 6:25 PM)**

time	[id] title	presenter
4:40 PM	[78] Does the application of nitrogen fertilizers on the crop sowing row change the crop-weed competition in low-herbicide cropping systems?	MOREAU, Delphine
4:55 PM	[84] Using low-cost NIRS method for helping smallholder to detect nutritional deficiencies and imbalances	AVIT, Valentin
5:10 PM	[91] A crop forecast-based approach for in-season nitrogen application in winter wheat	PALKA, Marlene
5:25 PM	[92] Developing a model to simulate carbon cycling and water competition in vineyard	LEOLINI, Luisa
5:40 PM	[300] Sensitivity of nitrogen leaching reduction by winter cover crops to management interventions at landscape scale	ZHANG, Jingjing
5:55 PM	[303] Predicting plant available water holding capacity of soils from crop yield	WANG, Enli

### **Sustainable increase of productivity - Salle 14 (1st floor) (4:40 PM - 6:25 PM)**

time	[id] title	presenter
4:40 PM	[195] Combining grapevine yield, soil quality and service crops: results from a three-year on-farm experimentation in the Mediterranean region	METAY, Aurélie
4:55 PM	[173] Trajectories of technical changes in pesticide reduction across French vineyards	FOUILLET, Esther
5:10 PM	[273] Yield and quality of food and feed in organic farming systems with and without livestock	WATSON, Christine
5:25 PM	[323] The impact of pH and climate on the yield of cereals	TOPP, Kairsty

5:40 PM	[338] Sowing date and sowing rate affect yield and yield components of winter poppy	NEUGSCHWANDTNER, Reinhard
5:55 PM	[163] Conceptual framework of a Decision Support Tool aimed at enhancing fertilization advice for agroecological banana cropping systems	BARRET, Julie
6:10 PM	[50] Soil phosphorus budgets differ according to plot managements and farm types: a French observatory	BARBIERI, Pietro

## Wednesday, August 28, 2024

### Reconciling short- and long-term goals in agrifood systems: what role for agricultural sciences? - La Nef (Ground floor)

(8:30 AM - 9:30 AM)

-Conveners: Guillaume Martin

### Diversification in crop production - Salle 14 (1st floor) (9:35 AM - 10:50 AM)

time	[id] title	presenter
9:35 AM	[218] Synergies between short and long-term actions to promote crop diversification	CORRE-HELLOU, Guénaëlle
9:50 AM	[65] The productive performance of intercropping	VAN DER WERF, Wopke
10:05 AM	[96] Silvopastoral systems interact with management practices and contribute to mitigate N losses from dairy farms: a case in Brittany, France	METTAUER, Romane
10:20 AM	[45] Unravelling the diversity of technical operations in diversified perennial-based cropping systems: the case of smallholder immature rubber intercropped with pineapple in Rayong, Thailand	SIMON, Charlotte
10:35 AM	[327] Provision of ecosystem services by biodiversity-based cropping systems in the context of climate change: a 50-year simulation in western France	DELBAERE, Arnaud

### Improving ecosystem services in agroecosystems - La Nef (Ground floor) (9:35 AM - 10:50 AM)

time	[id] title	presenter
9:35 AM	[129] Overview of France 2030 interdisciplinary research programs on the agroecological transition	ROGEL-GAILLARD, Claire
9:50 AM	[49] Reintegrating livestock onto crop farms: a step towards sustainability?	MEUNIER, Clémentine
10:05 AM	[284] Beyond organic vs. conventional system dichotomy: importance of management practices in driving agroecosystem multifunctionality	ALIGNIER, Audrey
10:20 AM	[301] Relationship between agrobiodiversity, farming practices, and cocoa health perception by organic and conventional farmers in Côte d'Ivoire	MORRISSON, Marie-Thérèse
10:35 AM	[113] Higher multifunctionality of organic crop fields in preserved hedgerow landscapes	BOINOT, Sébastien

### Intercropping - Les Horizons (2nd floor) (9:35 AM - 10:50 AM)

time	[id] title	presenter
9:35 AM	[87] Exploring the potential of wheat-soybean intercropping as a climate change adaptation in crop production	YU, Jing
9:50 AM	[159] Ability of the STICS soil-crop model for simulating performances and inter-specific interactions in tropical cereal-legume intercropping	DE FREITAS, Mathilde
10:05 AM	[234] Understanding and designing spring wheat/faba bean intercropping systems by virtually testing cultivar traits and management options	DEMIE, Dereje T.
10:20 AM	[276] Developing Hi-sAFe-machine learning hybrid approach as a field-specific decision support system for agroforestry systems	KHEIR, Ahmed FEIKE, Til
10:35 AM	[289] Modelling the spatial distribution of light capture in strip intercrops	WANG, Zishen



**On-farm changes to support agro-ecological transitions: profitability and motivation - Salle 13 (1st floor) (9:35 AM - 10:50 AM)**

time	[id] title	presenter
9:35 AM	[31] Balancing profitability, protein production, and pesticide reduction: what are the levers for action for French arable farms?	KAHINDO, Salomé
9:50 AM	[64] What motivate West African cocoa farmers to value trees? Taking the 4Ws approach to the heart of the field	DAGO, Marie Ruth
10:05 AM	[190] French Tea Time: An economic analysis of the emergence of tea production in France	ROUSSELIÈRE, Damien COISNON, Thomas
10:20 AM	[362] The importance of understanding and examining the moral dimensions of farmers' economic life for their culture of cooperation	SLOVENC GRASSELLI, Mateja
10:35 AM	[345] Forestry transition interaction and farm trajectories on pioneer fronts: insights from Amazon Basin in Guaviare and Paragominas	VEGA-MARTINEZ, Andrés

**Diversification in crop production - Salle 14 (1st floor) (11:25 AM - 12:55 PM)**

time	[id] title	presenter
11:25 AM	[63] Opening barriers for lentil agri-food system production in France	THIOLLET-SCHOLTUS, Marie
11:40 AM	[21] Adoption of cereal-legume intercropping in France: a matter of outlets?	YAN, Elodie
11:55 AM	[89] Introducing grain legumes in Mediterranean cropping systems as a strategy to increase their productivity and sustainability	SIMON-MIQUEL, Genís
12:10 PM	[222] Legume-based crop rotation impacts productivity and resource use efficiency in south-eastern Australia	MIHRETIE, Fekremariam
12:25 PM	[271] Improvement of chickpea yield through intercropping with common wheat in two Mediterranean locations	NERUCCI, Gabriele
12:40 PM	[326] Combination of crop production strategies for plant protein production in Europe	ALANDIA, Gabriela

**Increasing biodiversity for improving resiliency of farming systems - La Nef (Ground floor) (11:25 AM - 12:55 PM)**

time	[id] title	presenter
11:25 AM	[8] Performance and stability of wheat variety mixtures: a multivariate analysis	STEFAN, Laura
11:40 AM	[223] Contrasted reaction norms of wheat yield in pure vs mixed stands explained by tillering plasticities and shade avoidance	GAWINOWSKI, Meije
11:55 AM	[239] Differences in growth features between species are driving cereal-legume intercrop yield	CASADEBAIG, Pierre
12:10 PM	[62] Identifying keys of success for relay intercropping of service crop in a winter cereal	DUCHÊNE, Olivier CELETTE, Florian
12:25 PM	[46] Intercropping in Europe: a systematic mapping study of arable grain crops	PAUL, Madhuri
12:40 PM	[23] Phenotypic traits of sunflower varieties vary according to the composition of cover crops	SOUQUES, lucie

**On-farm changes to support agro-ecological transitions: co design - Salle 13 (1st floor) (11:25 AM - 12:55 PM)**

time	[id] title	presenter
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11:25 AM	[131] Integrating crop and livestock beyond farm level: how serious games may help co-designing collaborations between neighbouring farmers	RYSCHAWY, Julie
11:40 AM	[263] How do Community Supported Agriculture in Norway and the UK get members to eat more vegetables and be more content?	MILFORD, Anna Birgitte
11:55 AM	[302] Activity analysis through the course-of-action research program: an innovative method for analyzing farmers' practices	MORRISSON, Marie-Thérèse
12:10 PM	[133] Stakeholders' perceptions of climate change and challenges for grain legume adaptation to future climate in France	MARTEAU-BAZOUNI, Marie
12:25 PM	[106] Co-building organic agriculture expansion scenarios with increased nitrogen autonomy at territorial scale: the case of Morlaix communauté	HARCHAOUI, Souhil

### **Sensing & data - Les Horizons (2nd floor) (11:25 AM - 12:55 PM)**

time	[id] title	presenter
11:25 AM	[22] Assessing the sustainability of precision nitrogen fertilization strategies for durum wheat: a comparative study of NNI and NDVI map-based approaches	NAPOLI, Marco
11:40 AM	[54] From NDVI to variable nitrogen application map – Precision agriculture	MEMIC, Emir
11:55 AM	[117] Data fusion with belief structures to delineate maps of yield expectation	DOBERS, Eike Stefan
12:10 PM	[187] Assessment of the complementarity between field observations and multispectral UAV imaging for optimized cover crop management in viticulture: towards a comprehensive approach to the functioning of agroecological practices	CHERAIET, Anice GARCIA, Léo
12:25 PM	[231] Site-specific mechanical weeding in North-West-Germany	REUTER, Tobias
12:40 PM	[145] From genotypes to cropping system improving soybean yield in relay-cropping under water stress enhanced by cereal competition	SCHELL, Viviane

### **Is agronomy keeping up with digital agriculture? - La Nef (Ground floor) (2:20 PM - 3:20 PM)**

-Conveners: Simon Cook

### **Poster session #2 - Les Dortoirs (1st floor) (3:25 PM - 4:35 PM)**

### **Agro-ecological transitions at the landscape and territorial levels: co design - Salle 13 (1st floor) (4:40 PM - 6:10 PM)**

time	[id] title	presenter
4:40 PM	[238] Researching with, not for, the farmer in four African countries: the InnoFoodAfrica Project	STODDARD, Fred
4:55 PM	[176] An evidence mapping of participatory modeling methods to use in agricultural living labs	KLEMM, Toni
5:10 PM	[210] DEXiPM Grapevine®: evaluating sustainability in codesigned farming systems in a vineyard watershed	METAY, Aurelie
5:25 PM	[315] Unraveling collective experimentation in diversified systems: constructing Ideal Types	DE SAINTE AGATHE, Maité
5:40 PM	[246] Co-designing through the lens of historical cocoa farming loops to meet current and future needs for sustainable cocoa production in Côte d'Ivoire	NOTARO, Martin

5:55 PM	[288] On-farm experiments: farmers and researchers go further together! A synergy to learn about cultivation and postharvest handling of grain legumes in Sweden	CARTON, Nicolas
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### **Improving the nutrient use efficiency - Salle 14 (1st floor) (4:40 PM - 6:10 PM)**

time	[id] title	presenter
4:40 PM	[25] How can the variety effect in long-term field trials be identified and quantified? A methodological case study	KUNZ, Karolin
4:55 PM	[3] A simulation study to quantify the effect of sidedress fertilisation on N leaching and potato yield	VAN OORT, Pepijn A.J.
5:10 PM	[42] Comparing historical and modern German wheat cultivars: differences in responses to agronomic management and nitrogen	EYSHI REZAEI, Ehsan
5:25 PM	[88] A semi-mechanistic phosphorus module for the STICS model: formalization and multi-site evaluation on maize in temperate area	MOLLIER, Alain
5:40 PM	[147] Seasonal partitioning of dry matter and nitrogen of a model perennial grain ( <i>Thinopyrum intermedium</i> )	FAGNANT, Laura
5:55 PM	[232] The current state of applying agroecosystem models across large areas	NENDEL, Claas

### **Increasing biodiversity for improving resiliency of farming systems - La Nef (Ground floor) (4:40 PM - 6:10 PM)**

time	[id] title	presenter
4:40 PM	[294] Nitrogen uptake of maize, wheat, faba bean, and pea in strip intercropping in the Netherlands	DONG, Bei
4:55 PM	[174] GRAAL - Management of a permanent cover crop by mowing between the rows of a main crop	CARRIERE, Amélie LABREUCHE, Jérôme ALLETTO, Lionel
5:10 PM	[188] Tailoring crop diversification strategies to seasonal rainfall can increase crop yields and land use efficiency	MACLAREN, Chloe
5:25 PM	[299] On the economics of crop rotation diversification: valuing pre crop and cropping system effects, and accounting for opportunity costs	CARPENTIER, Alain
5:40 PM	[58] Temperate silvopastoral systems promote nitrification stability in the context of climate change: a case study in Brittany, France	METTAUER, Romane

### **Physiology & yield - Les Horizons (2nd floor) (4:40 PM - 6:10 PM)**

time	[id] title	presenter
4:40 PM	[14] Spatiotemporal suitability analysis of sorghum in Germany under climate change	HAJJARPOOR, Amir
4:55 PM	[119] New scales of development for wheat and barley	CELESTINA, Corinne
5:10 PM	[120] Rethinking flowering times of winter cereals for future climates	HARRIS, Felicity
5:25 PM	[142] Yield sensitivity to pre-anthesis heat waves in wheat and barley	CARRERA, Constanza Soledad
5:40 PM	[156] Managing soybean within field variability through variable seeding technology	MAESTRINI, Bernardo
5:55 PM	[317] Impact of heat and drought stress on yield and subsequent germination of oilseed rape ( <i>Brassica napus</i> L.) seeds	SABBOURA, Dima

# Thursday, August 29, 2024

**Zone Atelier Armorique + La Gacilly photography festival (8:00 AM - 6:00 PM)**

-Conveners: Véronique Lucas; Sébastien Boinot; Cendrine Mony

**EFELE/ValEnSol + The walled city of Saint-Malo (8:15 AM - 7:30 PM)**

-Conveners: Safya Aubry-Menasseri; Olivier Godinot

**UE La Motte + Brocéliande forest, the birthplace of legends (8:15 AM - 6:30 PM)**

-Conveners: Matthieu Carof; Blandine Lemercier

**Vegetable production area + Mont Saint-Michel (8:15 AM - 8:00 PM)**

-Conveners: Antonin Pépin; Vincent Faloya

**Side-event: Root2Res mid-term symposium - Salle 14 (1st floor) (9:15 AM - 12:00 PM)**

**Leisure time + Tour of the city of Rennes: Pick up of the lunch bags - Accueil Sainte-Anne (12:00 PM - 1:00 PM)**

-Conveners: Edith Le Cadre

**Leisure time + Tour of the city of Rennes: Guided tour (3:00 PM - 5:00 PM)**

-Conveners: Edith Le Cadre

## Friday, August 30, 2024

### Agro-ecological transitions at the landscape and territorial levels (assessments): carbon cycle - Salle 13 (1st floor) (9:00

AM - 10:30 AM)

time	[id] title	presenter
9:00 AM	[97] Challenges and opportunities for increasing organic carbon in vineyard soils: perspectives of extension specialists	THIOLLET-SCHOLTUS, Marie
9:15 AM	[282] Breeding progress in terms of carbon footprint reduction for five cereal crops in Germany	MA, Donghui
9:30 AM	[307] The carbon footprint of narrow-leaved lupin ( <i>Lupinus angustifolius</i> ) in Germany	SABBOURA, Dima
9:45 AM	[342] The agronomic potential for soil carbon sequestration by cover crops in three European countries	VIDAL MORANT, Marti
10:00 AM	[112] Multi-actor strategy to screen lentil landraces for organic agriculture in Lyon metropolitan area	SAINMONT, Lucile
10:15 AM	[236] Increasing circularity – Impacts of co-product management on soil carbon and greenhouse gas emissions	TOPP, Kairsty

### Climate change adaptation and mitigation - Salle 14 (1st floor) (9:00 AM - 10:30 AM)

time	[id] title	presenter
9:00 AM	[153] Simulating interactions between farms: adaptive network of biomass flow and individual behaviors	PETER, Aurélien
9:15 AM	[160] Using soil-crop models to investigate the impacts of contrasted livestock integration into cropping systems with climate change	DELANDMETER, Mathieu
9:30 AM	[337] Calibrating CERES-Barley for ideotyping climate-smart spring barley under German growing environments	MEZIANE, Asmae
9:45 AM	[274] Rye in a changing climate: insights from crop modelling in key northern hemisphere regions utilizing DSSAT-CSM-CERES-Rye	SHAWON, Ashifur Rahman
10:00 AM	[191] Soil fertility change outweighs climate change impact on maize yield in sub-Saharan Africa, a multi-model study	COUËDEL, Antoine

### Digital & AI - Les Horizons (2nd floor) (9:00 AM - 10:30 AM)

time	[id] title	presenter
9:00 AM	[140] Coupling experimentation and crop modeling to evaluate morpho-physiological traits of cotton cultivars in agroecological cropping systems in Benin	ABOUA, Dègbédji Charlemagne
9:15 AM	[141] Envirotyping to drive spring barley adaptation in northwestern Europe	BICARD, Maëva
9:30 AM	[155] Canopy anomaly classification using Hybrid ML, a case study on potatoes	MAESTRINI, Bernardo
9:45 AM	[177] Combining artificial intelligence and co-design to build scenarios for an agroecological transition of farming systems	CHALLAND, Margot DE TOURDONNET, Stéphane
10:00 AM	[321] Deep learning with limited data availability: self-supervised learning for crop yield prediction using RGB drone imagery	STILLER, Stefan
10:15 AM	[57] Operational yield forecasting and crop management with a digital twin	VAN EVERT, Frits

**Towards sustainable management of weeds - La Nef (Ground floor) (9:00 AM - 10:30 AM)**

time	[id] title	presenter
9:00 AM	[34] Which pea traits for agroecological weed management in pea-wheat intercrops	COLBACH, Nathalie
9:15 AM	[35] Effect of sowing patterns and species proportions of cereal-legume intercrops on weed control	COLBACH, Nathalie
9:30 AM	[72] Winter wheat-soy strip intercropping supports natural enemy abundance and pest control in an intensive farming system	THOMPSON, Jennifer
9:45 AM	[90] Intercropping chickpea with a mechanically controlled service plant: a promising way to manage weeds while mitigating interspecific competition	GUY, Margaux
10:00 AM	[259] Soil N dynamics and soil moisture after mechanical weed control in organic maize cultivation	BEIKÜFNER, Mareike
10:15 AM	[47] Which tillage to limit regrowth of perennial weeds from storage-organ fragments? From field experiment to modelling	SKORUPINSKI, Solèmne

**Adapting farming systems to changing of environmental conditions - La Nef (Ground floor) (11:05 AM - 12:35 PM)**

time	[id] title	presenter
11:05 AM	[68] Characterising the interactive effects of photoperiod and vernalising temperature on the flowering time responses of pasture legumes	GOWARD, Laura
11:20 AM	[297] Comparison of organic and conventional crop management in Estonia since 2008	LOIT-HARRO, Evelin
11:35 AM	[249] Perennial crops shape the soil microbial community and increase the soil carbon in the upper soil layer	LI, Shoujiao
11:50 AM	[158] Impact of climate change on maize productivity and nitrogen cycling in the sub-humid tropics: a field case study under rainfall extremes in Zimbabwe	BOUHENACHE, Abderrahim
12:05 PM	[200] Variability in arbuscular mycorrhizal fungi abundance and diversity within cocoa-based ( <i>Theobroma cacao</i> L.) agroforestry systems across pedoclimatic conditions	DJEZOU, Kouadio Meliton
12:20 PM	[149] Evaluating homemade dry manure tea as an alternative to synthetic fertilizers in spinach cultivation	LAMOUCHE, Hana

**Agro-ecological transitions at the landscape and territorial levels (assessments) - Salle 13 (1st floor) (11:05 AM - 12:35 PM)**

time	[id] title	presenter
11:05 AM	[83] DMPP and DMPSPA nitrification inhibitors' effect on soil microbial communities in a grassland crop under two soil pH conditions	JUÁREZ-MUGARZA, Maitane
11:20 AM	[39] Spatio-temporal microbial regulation of aggregate-associated priming effects under contrasting tillage practices	ZHANG, Yeye
11:35 AM	[52] Does no-till cover crop termination improve soil health in the short-term?	BRIÈRE, Michaël
11:50 AM	[255] Influence of organic farming on microorganisms associated to crop plants – from landscape to local scale	MONY, cendrine
12:05 PM	[275] Compositional shifts and assembly in rhizosphere-associated fungal microbiota throughout the life cycle of Japonica rice under increased nitrogen fertilization	DONG, Hangyu

12:20 PM	[146] Availability and nutritional contribution of organic waste products in agriculture, using Sweden as a case study	LAGERQUIST, Elsa
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### **Climate change adaptation and mitigation - Salle 14 (1st floor) (11:05 AM - 12:35 PM)**

time	[id] title	presenter
11:05 AM	[178] What opportunities exist for climate change mitigation in agriculture? A land-based emissions and mitigation measures analysis	ABOU CHEHADE, Lara
11:20 AM	[125] Farm resilience in Mediterranean agricultural territories: a multi-scale and multi-risk approach in France and Tunisia	HOSSARD, Laure
11:35 AM	[168] Syppre: innovative systems to meet the challenges of improving agriculture's carbon balance.	ESTIENNE, Marie
11:50 AM	[19] On-farm assessment of warming impact on winter cereals under different N fertilisation strategies: a Mediterranean case study	BLANC, Louise
12:05 PM	[340] Site conditions determine heat and drought induced yield losses in wheat and rye in Germany	FEIKE, Til
12:20 PM	[347] New resilient cropping systems for Europe	SESSA, Maria Giovanna

### **Future & optimization - Les Horizons (2nd floor) (11:05 AM - 12:35 PM)**

time	[id] title	presenter
11:05 AM	[116] Exploring agronomic innovations in drylands: can today's solutions from the MENA region benefit global resilient cereal-based systems for the future?	DEVKOTA, Mina
11:20 AM	[189] Unveiling the short-term impacts of conservation agriculture: a two-year experiment in the Tuscany region, Italy	NAPOLI, Marco
11:35 AM	[202] Subsurface Drip Irrigation and other water saving strategies to enhance plant production in a semiarid environment in Morocco	KRETZSCHMAR, Helen
11:50 AM	[260] Optimization of agricultural land use to support sustainable and healthy diet: a Bayesian approach coupled with soil-crop modelling	DESMAREZ, Tom
12:05 PM	[332] Adapting Italian agriculture to climate change: a MONICA model analysis of chickpea and lentil production for enhanced yield stability in low-input systems	TRIACCA, Alessandro

### **Wrapping-up session & introduction to ESA 2026 - La Nef (Ground floor) (2:00 PM - 3:00 PM)**

-Conveners: Evelin Loit-Harro; Claas Nendel; Edith Le Cadre

## List of posters for session #1

[id]	title	presenters
1	Rice blast control drives yield benefits from variety mixture in rice: a global meta-analysis	SONG, Tao
10	Intercropping chickpea and lentil with buckwheat: effect on weed suppression and legume yield	VIRILI, alessandra
11	Identification of metabolic markers of potassium sources utilisation in oil palm	ZAAG, Ismail
12	Effects of a thermopriming based acclimation strategy on the seed yield and quality and on the root morphology and exudation in two Brassica species	BRUNEL-MUGUET, Sophie
20	Future change in soil organic carbon and wheat yield under different climate change projections and agricultural managements in semi-arid Iran	GOROOEI, Aram
24	Cover crop residues mitigate impacts of water deficit on sunflower during vegetative growth with varietal differences, but not during seed development	SOUQUES, Lucie
28	Phase-specific genotype-by-light interactions determine kernel number and yield potential in wheat	CHEN, Tsu-Wei
30	Are legumes climate-smart pre-crops in intensive wheat cropping systems?	ZIMMERMANN, Merlin
32	How can agricultural production be reconciled with environmental preservation: 'Land sparing' versus 'Land sharing'?	KAHINDO, Salomé
36	Soil health indicators in Technosols vegetated with Atlantic grassland species	OLIVEIRA, J.A.
43	Nitrogen and potassium interactions: impacts on winter wheat yield and biomass in different climatic-soil conditions	PREBIBAJ, Moltine
48	Weed response to long-term cultivation practices	WINKLER, Jan
55	Exploring machinery management logics for implementing species mixtures	FOUILLET, Esther
60	Towards stopping pesticides use in vineyard: characterization of on-farm solutions	MEROT, Anne SMITS, Nathalie
61	Applying cross-model validation for a diversified cropping system	HERNANDEZ OCHOA, Ixchel
67	Building eco-resilience of oil palm with omics tools towards a fertilization sustainable plantation system	LAMADE, Emmanuelle
69	Legume residue recovery and rhizodeposition: an underestimated source of soil nitrogen	VOOR, Ivo
76	Deciphering crop-weed competition in aerobic rice culture in a temperate climate condition	FUKUNAGA, Rina
79	SATDOS: a decision support system for evaluating the sustainability of olive orchards	LOPEZ-BERNAL, Alvaro



80	A comparative assessment of the productive and environmental performance of contrasting olive cropping systems using SATDOS	MONTILLA CABELLO, Antonio
85	Genetic gains in wheat yield and its physiological attributes under contrasting conditions	MARCHESE, Sofia Ileana
99	Biostimulation effects of liquid vermicompost extract in chickpea are cultivar-dependent	MUNOZ ARBELAEZ, Maria
100	Intercropping elevates soil carbon sequestration by increasing soil organic carbon and inorganic carbon content in a newly reclaimed desert soil	XIAO, Chuanlin
103	Suitability and response velocity of xylem microtensiometers for the continuous assessment of xylem water potential in trees	TESTI, Luca
104	Study of the evolution of various products from a wastewater treatment plant as fertilizer in acid and basic agricultural soil	RIO, Patricia
105	Impact of crop weed competition on yield gap: a field approach in sugarcane in Réunion	LAINÉ, Elise COLBACH, Nathalie
110	How crop associations can exploit efficient use of natural resources while reducing the dependency on external inputs	PAMPANA, Silvia
114	Weed community trait composition as an effect of crop competition and mechanical disturbance	LAGERQUIST, Elsa
123	Matching decision to environmental triggers increases crop intensity and reduces risk in variable climates	WHISH, Jeremy
127	Sugarcane x Jack bean competition in intercropping system under contrasted nitrogen and water availability	COUËDEL, Antoine
134	Diversity of dry manure tea recipes from Tunisian farms and their impact on physicochemical properties	LAMOUCHE, Hana
137	Predicting and interpreting potato yield at field scales using Random Forest model for a whole country	HUANG, Qihong
139	Global analysis of variability in thermal stress thresholds for common wheat: potential underestimate of risk due to uncertainty	AUBRY, Mael
148	Climate change impacts on canola growth and yield characteristics: challenges and opportunities	LE ROUX, Andries
152	Update for yield-based BNF estimation and belowground contribution of faba bean	KÜHLING, Insa
161	Plant growth promoters-based biostimulant as a tool to reduce mineral fertilization in rice	MALATSETXEBARRIA, Maddi
162	Soil-improving management practices in a dynamic long-term experiment in NE Germany	SIMON-MIQUEL, Genís
175	Combining methods to manage ryegrass with less herbicides in arable crops: key of success of the irrigated on-farm experiment Cap du Futur in the south of the Paris Basin (FR)	ROUILLON, Clotilde
182	Design and integrated assessment of anaerobic digestion and cropping systems at a territorial scale	BESANCENOT, Albert

183	Identifying and engaging Communities of Practice focused on soil health	ORTMAN, Tove
186	Assessing the establishment and impacts of interseeded cover crops on soil properties and silage corn yield and quality in a boreal climate	CHEEMA, Mumtaz
193	Integral nitrogen fertilization management with CHN-conduite: improving nitrogen use efficiency under climatic constraints and uncertainties	TAULEMESSE, Francois
194	Waterlogging and heat stress interactions on wheat yield and components	PLOCHUK, Rocio
197	Kyrgyzstan's croplands: haven or threat to biodiversity?	ALTSTADT, Maximilian
201	Effect of long-term residue managements and tillage on weeds and its impact on winter wheat in temperate climate loamy soils	LACROIX, Christophe
203	How to account ecosystem services into energy assessment of agroecosystems and bioeconomy?	JOSSERAND, Alice
205	Ex-ante assessment of the farmers' drivers of adoption of service plants for enhancing pest biological control. Consequences for the design of agro-ecological systems	BLAZY, Jean-Marc
211	Interspecific variability in seed germination and seedling emergence dynamics of cover crop species	FENG, Ximei
217	Assessing the potential of legume crops to meet protein demand in the context of climate change in Southern Belgium (Wallonia)	DEJONCKHEERE, Audrey
220	Comparison of Normalized Green Red Difference Index (NGRDI) with NDVI and NDRE from Sentinel-2 data for the detection of biomass heterogeneity on agricultural fields	WEIER, Brit Kirsten
226	Dietary fibers in wheat and barley grains and their impact on wheat dough quality	KORGE, Mailiis
229	Agronomic resilience of grain legumes to drought stress using rainout shelters	RECKLING, Moritz
230	Using simple cultivar phenotyping and photothermal algorithm to explore the suitability of spring-sown grain legumes in France	DEBAEKE, Philippe
233	Genotype x Environment interactions on soybean yield components and variability in Northern Germany	ANSONG OMARI, Richard
240	Water stress detection in sunflower varieties using leaf temperature and leaf water content - Integrating water stress tolerance criteria into varietal study in Switzerland	LAURENT, Eve-Anne
241	Towards a tool to support the design of plant protection solutions in the context of fruit growing	BORG, Julie
243	Effects of different amendments on aggregate stability and microbial communities of coastal saline-alkali soil in the Yellow River Delta	LI, Shan

245	Contribution of in-plot exchanges between farmers and scientists to knowledge hybridization: a case study in cocoa agroforestry systems in Côte d'Ivoire	NOTARO, Martin
252	Use of intercropping systems to reduce the growth of weeds under Mediterranean pedoclimatic conditions	DORDAS, Christos
262	The effects of compost on the feeding activity of soil biota	CHMELIKOVA, Lucie
269	Management of sanitary and environmental impact of agricultural phytosanitary practices: case of farms in the southwest of France	MGHIRBI, Oussama
270	Maize-soybean strip intercropping in organic farming, in Austria	SALEHI, Aliyeh
278	Crop phenology assessment with multiscale and multisource time series	NENDEL, Claas
287	Assessing the carbon footprint of wine production in Germany to identify additional climate change mitigation potentials in viticulture	SCHLICH, Iven
291	Considering research impacts along the way in a project on agricultural transition pathways	PICHOT, Marine
295	Cover crops and intercropping enable input reduction and maintained yields of subsequent sole crops in an organic arable cropping system	CARLSSON, Georg
298	Preliminary results of an experiment of pure and intercropped seeding of cereals and legumes	LOIT-HARRO, Evelin
312	Contribution of plant to the DOC pool in a soil-plant-digestate system: a <sup>13</sup> C-labelling experiment	DIDELOT, Anne Flore
316	Environmental and economic assessment of German oat milk value chain using an integrated LCA-LCC approach	HA, Nan SABBOURA, Dima
318	A collaborative approach to diversified soybean-based cropping system: design of four OFE in North-Eastern Italy	GIANNINI, Vittoria
322	Varietal resistance as an IPM tool for Scottish barley crops	TOPP, Kairsty
324	Can biomass from the aquatic weeds water hyacinth ( <i>Eichhornia crassipes</i> ) and hippo grass <i>Vossia cuspidata</i> supply adequate nitrogen for sorghum on low fertility tropical soil?	KAPEMBWA, Chindi
328	Legacy effect on a spring barley crop established the year after the cultivation of different grain legumes grown as either sole crops or as intercrops with spring barley	WATSON, Christine TOPP, Kairsty
330	Spatial and temporal variability of pH, P, K and Mg content in topsoil across mainland France	LEMERCIER, Blandine
331	Developing a robust model for <i>Ramularia</i> leaf spot prediction in barley crops	TOPP, Kairsty
348	Adapting the DSSAT-CROPGRO model for narrow-leaved lupin ( <i>Lupinus angustifolius</i> )	FORCHERT, Maximilian

350	Agro-industrial waste as phosphorus source in a crop rotation	DELGADO, Antonio
354	SITES Agroecological Field Experiment – an infrastructure in southern Sweden for cropping systems research in conventional, organic, and perennial agriculture	CARLSSON, Georg
358	Bypassing lock-ins preventing from innovation in cropping systems through co-construction: preliminary results of EXPLORE research project in Wallonia (Belgium)	PENVERN, Logan
359	Contribution of agroforestry to climate change mitigation: a case study from Wendhausen, Germany	KEPHE, Priscilla Ntuchu
363	Exploring the potential of temperate early arable land agroforestry systems for climate change mitigation	KEPHE, Priscilla Ntuchu
364	Morphological indicators of young tree health and recovery in agroforestry systems	DE HALDAT DU LYS, Alexandre

## List of posters for session #2

[id]	title	presenters
5	SuMoQuality: a crop growth model to predict seed yield and quality under recurring heat waves	BRUNEL-MUGUET, Sophie
6	Genotype-Environment Interactions in pre-harvest sprouting of wheat	HULL, Sandra
7	Invasion of exotic weeds caused losses in crop yield and vegetation diversity	KIM, Do-Soon
13	Comparative analysis of crop phenotypes to assess cropping system diversification potential by introducing improved accessions of <i>Thinopyrum intermedium</i> in fields	DURAND, Robinson
15	Scenario labs and integrated assessment modelling for bioeconomy and agroecology development	DARDONVILLE, Manon
16	Climate change and resilience of Catalan agriculture: interdisciplinary and multi-scale boost for diversification with legumes as a mitigation and adaptation strategy	PLAZA-BONILLA, Daniel
17	Using DSSAT to examine the interannual weather variation in forage maize productivity in Asturias and Galicia (Spain)	OLIVEIRA, J.A.
27	Comprehensive assessment of agricultural nutrient management policy mix in a watershed region	ZHANG, Ling
37	Weed seed predation by carabids can help to regulate weeds in arable cropping systems	COLBACH, Nathalie
53	The effect of hill country topography on subterranean clover development	TEIXEIRA, Carmen
56	Model-based exploration of sustainable cropping systems by integrating crop rotation diversification with management practice optimization	LIANG, Zhengyuan
59	Direct and indirect effects – mediated by mesoclimate – of landscape structure on carabid beetle communities and their consequences on weed seed predation in winter cereals	CARBONNE, Benjamin
66	Impact of <i>Venturia oleaginea</i> infection on the gas exchange of olive leaves	LOPEZ-BERNAL, Alvaro
73	Characterisation of repeated heat stress in oilseed rape: analyses of yield, seed quality, and –omics signatures	KOUGITEAS, Leonidas
74	Coevolution of herd and its feed resources for transforming dairy farming towards an agroecological and	CURTIL DIT GALIN, Marine
77	Agro-economic performances of cropping systems under low pesticide use and organic production in Brittany	POURIAS, Jeanne
93	Agronomic strategies for sustainable cereal production in the Mediterranean area	COLOMINA-GARCIA, Marc
95	Adapting FLORSYS for climate change: implementing plant-plant competition for water in a 3D mechanistic model for predicting future crop/weed interactions and their consequences in arable cropping systems	COURNAULT, Quentin

98	Spring fertilisation with green ammonia - option for future organic farming?	KÜHLING, Insa
102	The effect of silicate, carbonate, and sulphate calcium amendments on the mineralizability and persistence of soil organic carbon: a comparative study	BELHOCINE, Mailis DEVAULT, Mariana
108	The impact of different fungicide product combinations on malting barley, yield, quality, and profitability in the Western Cape of South Africa	VENTER, Manfred
118	A short-season, early-vigorous wheat ideotype for adaptation to a changing global climate	GREEN, Timothy
121	Weeding pineapples crops without herbicides or plastic mulch? Critical period of weed interference in pineapple crops on Réunion Island	MOREAU, Delphine
128	Frost and heat impact on grain yields: challenges in its modelling	WHISH, Jeremy
136	Stakeholders' evaluation of vegetation and its management in railway environments	RAKOTOSON, Tiana
143	Exploring diverse practices in sugarcane straw management: a case study in Réunion island	SHILI-TOUZI, Ines
151	How multi-species cover and perennial forages mitigate the impact of repeated heatwaves in a context of Sulphur deficiency	BRUNEL-MUGUET, Sophie
164	Limited volume irrigation: management by the Irré-Lis tool	BOYER, Julien
166	Distinct and interactive effects of low light and <i>Alternaria alternata</i> infection on grain yield of sorghum	PAMPANA, Silvia
167	Landscape unit: a framework for discussing the representativeness of cropping system	GALANO, Eva
172	Greater diversification and the use of a decision tool allow a significant reduction in mineral nitrogen application in durum wheat without compromising yield and quality	ESTIENNE, Marie
180	The secrets of shading for thriving cocoa	GUEI, Stéphane Hubert
181	PULSAR: a France 2030 project for unlocking white lupin from field to fork	FUSTEC, Joëlle
185	Effect of the reduction of fertilization by iron chelates on photosynthesis, stress parameters and production of mandarin trees	ANTONIO HERNÁNDEZ CORTÉS, José
192	Adapting service crop termination strategy in viticulture to increase soil ecosystem functions and limit competition with grapevine	GARCIA, Léo
196	What are the drivers for change in agricultural systems in territories? Crop succession as an indicator of change	YGAUNIN, Elise
198	Cereal crop yields as dependent on the soil water availability in differently management Chernozem soils	MÜLLER, Dominik BÖNECKE, Eric
206	Prediction model for N <sub>2</sub> O emissions related to fertilization and rain events over a 3-year period	MONZON, Oscar

212	Coupling a crop-soil model and life cycle assessment to reduce GHG emissions of crop rotations	MAROHN, Carsten
213	Agrobiodiversity: characterization, assessment, and designing cropping systems for the Future	METAY, Aurelie
215	Effect of different organic-mineral fertilization systems on yields and N-use efficiency (under controlled environments)	MESINOVIC, Emina
219	Unfolding the leaf economics spectrum for wheat: trait analysis and genomic associations across cultivars	LI, Yibo
224	Crop plasticity in the face of climate change – will CO2 offset the effects of high temperature and water deficit on wheat?	GAWINOWSKI, Meije
225	Effect of some cropping systems on the microbiological properties of sandy soils of the Sahara desert Algeria	KARABI, mokhtar
227	VIKING: validating the introduction of kernza in the Nordic-Baltic region	KORGE, Mailiis
235	Exploring the use of naturalized Bradyrhizobia populations for increasing soybean productivity in Northern Germany	OMARI, Richard Ansong
237	Future farming: can autonomous field robots facilitate the implementation of diversified agroecological landscapes?	GRAHMANN, Kathrin
242	Diversified cropping systems with cereal and legume intercropping to maintain sustainability	DORDAS, Christos
248	The latitude distribution pattern of diversity and assembly mechanism of soil nematode communities in croplands	LIU, Xiaotong
250	Are intercrops and cover crops efficient to mitigate pesticide dependency and leaching risks in low input cropping systems?	SEIMANDI-CORDA, Gaetan
251	The effects of 39-year continuous mineral and organic nitrogen fertilization in an albic luvisol soil in Germany	MORTELLA, Giacomo NEUGEBAUER, Konrad
256	Space-LUOPS: mapping carbon sequestration potential to inform for Carbon Farming investments in Queensland (Australia)	DE ANTONI, Max
257	Making MONICA fit for simulating water, carbon, and nitrogen dynamics in grasslands	NENDEL, Claas
258	Effect of sown flower margins on pollinators, crop productivity and soil properties in intensive agriculture	ŠARŪNAITĖ, Lina
264	Calibrating and validating soil moisture simulation under heterogeneous soil conditions in a diversified cropping system	ENGELS, Anna
265	Drivers for cropping decisions and predicting crop rotational patterns for Central Europe using machine learning	PALKA, Marlene
266	Phenotypic differentiation and plasticity of arable and urban populations of the grass weed <i>Vulpia myuros</i>	BÜCHI, Lucie

268	Bioblitzes in agroecosystems across Europe: a tool to favor biodiversity conservation by gathering farmers, scientists and general public	AGASSE, Clémence
272	Evaluating the impact of soil uncertainty on N <sub>2</sub> O emissions from winter oilseed rape cultivation in Germany using large-scale crop model simulations	VISWANATHAN, Michelle
279	Yield gap assessment of spring barley in Germany using STICS, DSSAT and APSIM multi-model ensemble	KHEIR, Ahmed
281	Uncertainty of wheat carbon footprints – the role of N <sub>2</sub> O estimation method	MA, Donghui
285	A comparison of plant sap and plant dry tissue analysis in winter wheat using three interpretation approaches and their correlation with yield	REYMANN, Wiebke
286	Pseudomonas chlororaphis as a potential Plant Growth Promoting Rhizobacteria for enhancing barley performance under drought stress	NASAR, Muhammad Fazail
293	Assessing the contribution of diversified rotations, low-input management systems and hedgerows, at local and landscape scales, to the multifunctionality of agroecosystems	DOUSSINAULT, Léa
305	Drought research, particularly forecasting and plant genetics, as the key to food security	EYSHI REZAEI, Ehsan
306	Nitrogen performances of pesticide-free system experiments of INRAE	PARNAUDEAU, Virginie GODINOT, Olivier
308	WS-CI: a web service for predicting the biomass and nitrogen uptake of intercropping cover crops	LORÉE, Tom
309	From theory to practice: how to assess the effects of sustainable soil management on One Health?	LEFÈVRE, Clara
314	C and N dynamics in innovative cropping systems associated to anaerobic digestion systems in commercial farms	BESANCENOT, Albert PARNAUDEAU, Virginie
319	Climate change mitigation along the plant production chain – an overview on agronomic research supporting climate neutrality in Germany	BITTNER, Marlene
320	Risk management in agriculture and crop insurance: implementation of a method for estimating reference yields in organic field crops in France	MGHIRBI, Oussama
333	Estimation of available days for mechanical weeding with J-DISTAS: relevance and limits in cropping systems evaluation	ROUILLON, Clotilde
336	Soil conservation: what is the real importance of soil organisms in soil aggregate stability?	ROQUIER, Morgane
339	Utilizing multispectral vegetation indices to predict spring barley yield using remote sensing under different drought conditions and sowing patterns	MEZIANE, Asmae
343	Yield as affected by heat waves on wheat cultivars of contrasting grain weight	RASINES GANDARILLAS, Celia



346	Development of on-farm and experimental cereal yields in Germany under climate change	BITTNER, Marlene
349	Agronomic and environmental effects of legumes as pre-crop to winter wheat	AMANN, Michael
351	Combining methods and knowledges for monitoring environmental policies on a territorial scale: spatial disaggregation of pesticides sales through land use data, reglementary information and expert knowledges	CAROZZI, Marco
356	Breakthru: developing compaction resistant wheat. Rooting performance of ethylene insensitive spring wheat under different cultivation treatments	BAXTER, Christina
361	Pea-wheat intercropping brings novelty to grain production in Serbia	ĆUPINA, Branko VUJIĆ, Svetlana
365	Intensification of crop rotation by growing multi-species mixtures for green manure	VUJIĆ, Svetlana
366	Improving valorisation of cattle farming through territorial dialogue: a case study in Loir river valley, France	GATIEN, Amandine