EJP Soil MIXROOT-C and MAXROOT-C Workshop, 13-17th of March, Montpellier, France

Day	*Hour*	*Schedule*	*Location*
Monday 13th of March	**10:30 - 12 :00**	**Meeting point:** In front of the INRAE Campus (see MAP) **at 12 am** or directly in the room at 13 am. If you want to come to our lab around 11am for a coffee and to discuss please send an email to Jeremy: jeremy.detrey@inrae.fr and me: isabelle.bertrand@inrae.fr	UMR Eco&Sols
	Session 1: Overview of the results from each WP Zoom link for all sessions : https://inrae-fr.zoom.us/j/7766183810		
	13:00 - 13:20 **13:20 - 13:30**	**Welcoming, general information's and logistic aspects** The twin project's MIX and MAXROOT-C. Presentation of the detailed project (Isabelle BERTRAND, Rebecca HOOD)	***Amphi 208*** *(building 9)* *Campus SupAgro*
	13:30 - 16:00	**Separate rooms for MIX and MAX participants:** ***Where are we?*** Overview of the objectives/data available/schedule to get the missing data/actions planned in 2023 by WP leaders ➔ Separate discussions for WP2-WP5 of MIX and MAXROOT-C	**MIXROOT-C:** ***Amphi 208*** *(building 9)* *Campus SupAgro* **MAXROOT-C:** ***Room 301*** *(building 9)* *Campus SupAgro*
	16:00 - 16:30	*[Coffee break]*	
	16:30 - 17:00	Presentation of the WP6 (Frédéric REES)	***Amphi 208*** *(building 9)* *Campus SupAgro*
	17:00 - 18:00	Discussions	***Amphi 208*** *(building 9)* *Campus SupAgro*

EJP Soil MIXROOT-C and MAXROOT-C Workshop, 13-17th of March, Montpellier, France

Day	*Hour*	*Schedule*	*Location*
Tuesday 14th of March	**9:00 - 10:30**	**Both project together:** Strategy of data analysis and publication (The cook book special issue, other ideas?)	***Room 204*** *(building 11)* *Campus SupAgro*
	10:30 - 11:00	*[Coffee break]*	
	11:00 - 12:30	**Separate rooms for MIX and MAX participants:** A specific session on how to integrate data from each project. Which papers do we plan to publish? Who is taking the lead? Agenda of writing.	**MIXROOT-C:** ***Room 204*** *(building 11)* *Campus SupAgro* **MAXROOT-C:** ***Room 215*** *(building 11)* *Campus SupAgro*
	12:30 - 13:30	*[Lunch break]*	
	13:30 - 15:30	**How to measure root morphology?** Methodology: root washing and staining, scan configuration, image aquisition (video presentation) RhizoVision software demonstration (Catherine PICON-COCHARD)	***Room 204*** *(building 11)* *Campus SupAgro*
	15:30 - 16:00	*[Coffee break]*	
	16:00 - 17:30	**Presentations from the PhD students for both projects :** Esben Øster Mortensen: (eom@agro.au.dk) *Soil carbon input and productivity in diversified grasslands including legumes and forbs – effect of species traits and mixture design on soil carbon and biomass yields.* Celia Fernández Balado: (celia.fernandez-balado@boku.ac.at) *In situ 13C isotope labelling of wheat to determine total belowground carbon inputs.* Layla M. San Emeterio: (lmarsan@irnas.csic.es) *Study of SOM in a Mediterranean savanna (dehesa) using advanced analytical pyrolysis techniques.* Chao Fei: (chao.fei@inrae.fr) *Soil microbial biomass P in cropland soils: a global meta-analysis (work in progress).* Julia Fohrafellner (julia.fohrafellner@boku.ac.at) *Pool specific soil organic carbon sequestration by cover cropping – a global meta-analysis.* Tristan Gérault: (tristan.gerault@inrae.fr) *Regulating rhizodeposition by carbon-nitrogen interactions within the plant: modelling at the scale of an architectured wheat plant.*	***Room 204*** *(building 11)* *Campus SupAgro*
	Evening	*[Social event]* Le sens 6 Restaurant : 106 Avenue de Lodeve, 34070 Montpellier	

EJP Soil MIXROOT-C and MAXROOT-C Workshop, 13-17th of March, Montpellier, France

Day	*Hour*	*Schedule*	*Location*
Wednesday 15th of March	**9:00 - 10:00**	**Methodology of the labelling experiment and data analysis:** Question session : Phenology? Frequency of labelling? Concentration of 13C? Ask people of their concern.	***Amphi 208*** *(building 9)* *Campus SupAgro*
	10:00 - 10:30	*[Coffee break]*	
	10:30 - 12:00	**Methodology of the labelling experiment and data analysis:** (Continue)	***Amphi 208*** *(building 9)* *Campus SupAgro*
	12:00 - 13:00	*[Lunch break]*	
	13:00 - 17:00	**Site visit of DIAMS study field** Labelling and Ingrowth core (IGC) demonstration in the field	

« WP6 meeting »

Day	*hour*	*Schedule*	*Location*
Thursday 16th of March		**PART 1: From root data to root-derived C sequestration potential across** Europe *Ex: root net C input + RothC/USSF = soil C sequestration potential*	
	09:00 - 10:00	**Comparison between CarboSeq and Max/MIX in terms of modelling objectives / approaches** ➔ what will be done in each project? when? by who?	***Room 209*** *(building 12)* *UMR Eco&Sols*
	10:00 - 10:30	**Discussion about the modelling strategy in Max 6.3** (getting root data and extrapolating C sequestration potential) ➔ Which data (Max, MIX and beyond)? which statistical approach? which soil model(s)?	***Room 209*** *(building 12)* *UMR Eco&Sols*
	10:30 - 11:00	*[Coffee break]*	
		PART 2: Developing models to illustrate specific trade-offs Ex: root C vs yield, root C vs C seq., soil N vs C seq, ...	
	11:00 - 12:30	**Presentation of the current (or past) modelling approaches developed by participants of WP6** (e.g. USSF, RhizoDep, CN-Wheat, L-egume, SIMBAL) ➔ Focus on the way specific soil or plant processes have been represented, alone or in interaction	***Room 209*** *(building 12)* *UMR Eco&Sols*
	12:30 - 14:00	*[Lunch break]*	
	14:00 - 15:00	**Do we have a common vision of plant-plant / plant-soil interactions?** ➔ Creating a summary scheme showing the interactions between main processes that can generate trade-offs	***Room 209*** *(building 12)* *UMR Eco&Sols*
	15:00 - 16:00	**Limits of the existing plant-plant and plant-soil models: outputs from the reviewing works of Christophe & Katharina** ➔ Are the identified main processes correctly represented in existing models?	***Room 209*** *(building 12)* *UMR Eco&Sols*
	16:00 - 16:30	*[Coffee break]*	
	16:30 - 17:30	**BRAINSTORMING 1:** **How can we represent such processes in the easiest possible way?** ➔ Defining the bases of the toy models we want to use for illustrating a given trade-off	***Room 209*** *(building 12)* *UMR Eco&Sols*

Day	*hour*	*Schedule*	*Location*
Friday 17th of March	**09:00 - 10:30**	**BRAINSTORMING 2:** **How can we represent interactions between these processes?** ➔ Establishing the principles of the toy models we want to use for illustrating a given trade-off	***Room 209*** *(building 12)* *UMR Eco&Sols*
	10:30 - 11:00	*[Coffee break]*	
	Next steps for WP6 & publications		
	11:00 - 11:30	**Publication strategies for the different tasks and partners**	***Room 209*** *(building 12)* *UMR Eco&Sols*
	11:30 - 12:00	**How do we schedule the rest of the activities of WP6?** **Who is doing what?**	***Room 209*** *(building 12)* *UMR Eco&Sols*
		[End of WP6's workshop]	