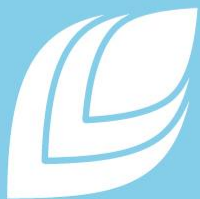


# Annual Science Days 2023

## Conclusions from breakout session C1: Carbon sequestration, roots and amendments

Convener: Rebecca Hood-Nowotny

Observers: Celia Fernández-Balado, Sophia Götzinger



**EJP SOIL**  
European Joint Programme

EJP SOIL has received  
funding from the European  
Union's Horizon 2020  
research and innovation  
programme: Grant  
agreement No 862695



MAXROOT-C  
soil inventory SOM fractionation  
root shoot database  
genome x environment  
winter wheat winter rapeseed  
variety selection  
roots wheat genotype  
POC root C inputs deep roots deep soil  
sunflower  
climate change mitigation  
root carbon allocation  
modern winter wheat varieties  
agricultural policies allometric relationships MAOC  
crop roots root biomass  
CARBOSEQ soil carbon  
silage maize  
Arbuscular mycorrhizal fungi  
climate change adaptation  
crop management SOC stocks  
H2020 INVITE negative emissions  
water and nutrient resources  
root architecture

**Oral presentations :** Maxroot-C and Carboseq projects

13C  
leguminous  
biodiversity  
crop diversification  
cover crops  
Rhizodeposition  
intercropping  
variety selection  
Labelling  
wheat

**Poster session:** Mixroot-C, Maxroot-C and AgroecoseqC projects

# 1. Carbon saturation

Is not a limitation for C sequestration



Axel Don

# 2. Winter wheat root biomass increase

genotype selection without compromising yield  
Site explains more the variability



Henrike Heinemann

# 5. Root shoot database

Need to standardise methodologies (depths, sieve size, sampling time)



Simon Weldon

Highlights

# 4. Winter wheat root architecture traits

High variation across sites



Fabien Durand-Maniclas

# 3. Arbuscular mycorrhizal fungi

High variation across sites



Agne Versulienne

# ROOTS ARE THE MAJOR SOURCE OF SOC!!

