

DELIVERABLE REPORTING



Multipurpose hemp for industrial bioproducts and
biomass

(Ref n. 311849)

WP1 – Heteroduplex mapping to improve hemp target traits

Deliverable 1.7 “Fibre quality of new fibre varieties from
HDM characterised”

Lead partner: UoY

Dissemination level: PU

Delivery date (proj month): 46

Due to the delay in obtaining mutant lines, and the small number of seeds we work with (5 to 25), it has not been possible to look into Fibre quality (D1.7) until the last month of the project. Seeds had been sown for fibre quality using the csRWA2 lines in a Finola and Futura background. Unfortunately, the Finola mutants exhibited a dwarf phenotype, which makes it impossible to use for fibre quality measurement. In the case of Futura, no homozygous plants were obtained and this was associated with a loss of the monoecious characteristic of the variety. These issues could be solved with help from the elite variety breeder. In conclusion, introgressing the

mutation from Finola to Futura is possible in principle but will need further work to confirm the data obtained in Finola.