KLIMAPROTEIN OBJECTIVES AND PLAN

- Reduce agricultural carbon footprint: high and stable production of protein in Denmark →
 crops high in protein quality, low in environmental footprint, suitable to a climate with periods
 of drought
- → Characterize 100 red clover lines:
 - 20 lines sampled at DLF
 - 80 lines in Greenhouse at AU
 - → Protein content analysis
 - → Polyphenol oxidase (PPO) activity





KLIMAPROTEIN

FIELD TRIP TO DLF IN MAY









20 red clover lines sampled & dried Soil sample taken for inoculation in Greenhouse





KLIMAPROTEIN

TRIALS AND SETUP IN GREENHOUSE









Nodulation test

→ Test if inoculation with soil sampled at DLF works

150 pots/table

3 days old

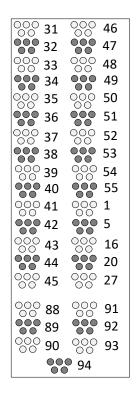
10 days old





KLIMAPROTEIN SETUP IN GREENHOUSE

000 1	000	16	
2	000	17	
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82	000	85	
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°°° 56	°°° 71
57	72
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59	74
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63	78
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65	80
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67	5
°°° 68	°°° 16
69	20
°°° 70	000 27
00 70	00 21
°°° 95	°°° 98
96	99
°°° 97	000 100

- Lines grown with 10 days delay between tables
- 5 lines (16.67 %) overlap between batches





KLIMAPROTEIN SETUP IN GREENHOUSE

3 weeks



5 weeks



KLIMAPROTEIN UPDATE 30 NOVEMBER 2023

SIMONE ANDREA GIERLICH PHD STUDENT

10 weeks







KLIMAPROTEIN STATUS IN THE GREENHOUSE

- First batch sown out 18. August, harvested 27. October
- Last samples harvested 13. November
- Drying finished last Friday





KLIMAPROTEIN

STATUS AND PLAN

2023:

- → Characterize 100 red clover lines:
 - 20 lines sampled at DLF



80 lines grown in Greenhouse



- \rightarrow Protein content analysis \simeq (expected to be finished by 31/12/2023)



2024:

→ Finish data analysis in January (expected finalization: 15/01/2024)



