



## Early blight subgroup





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Aim of the project:

Increase the knowledge about the occurrence of mutants in the *A. solani* population in Europe





## Activities (2025)

- **EB research group: project 2024/2025 overview**
  1. Sample infected leaves from field trials  
(untreated, DMI-treated, practical-treated)
  2. Isolation (single spore isolate / single spot isolate) (each RG by his own)
  3. Pathogen identification (*A. solani*,.....) by ITS primer -> Isaac
  4. Check mutation (QoI, SDHI, CYP 51) by pyrosequencing -> Gerd, Carolina  
(Phenotyping (fitness, aggressivness) of the isolats (each RG by his own)



## Activities (2025)

- **EB research group: project 2025**

### First step:

Sample infected leaves from field trials, if possible

Untreated

DMI-treated

practical-treated



## Activities (2025)

- **EB research group: project 202472025**

### Second step:

Isolation (single spore isolate / single spot isolate)

(10 isolates per treatment)

There are two protocols available:

[https://agro.au.dk/fileadmin/Screening\\_Alternaria\\_Evenhuis.pdf](https://agro.au.dk/fileadmin/Screening_Alternaria_Evenhuis.pdf)

[https://agro.au.dk/fileadmin/Single\\_spore\\_isolation.pdf](https://agro.au.dk/fileadmin/Single_spore_isolation.pdf)

If you need support, please contact me: [Hans.Hausladen@tum.de](mailto:Hans.Hausladen@tum.de)



## Activities (2025)

- **EB research group: project 2024/2025**

### Third step:

Check mutation (QoI, SDHI, CYP 51) by pyrosequencing

please send the isolates to Gerd, please contact him before via email

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## Activities (2024)

- **EB research group: project 2024/2025**

### Fourth step:

Pathogen identification (*A. solani*,..?) by ITS primer -> Isaac

Send the Isolates to Isaac, please contact him before via email:

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