

Photodocumentation of the Pleurorem EUREKA project



**Developing sustainable soil bioremediation technologies using
spent oyster mushroom substrate**

(2021-17432/NP/BILAT_HU_DE_1/ PLEUROREM)



ELTE visit at Pilze-Nagy Kft. 2023.11.20.



ELTE visit at Pilze-Nagy Kft. 2023.11.20.



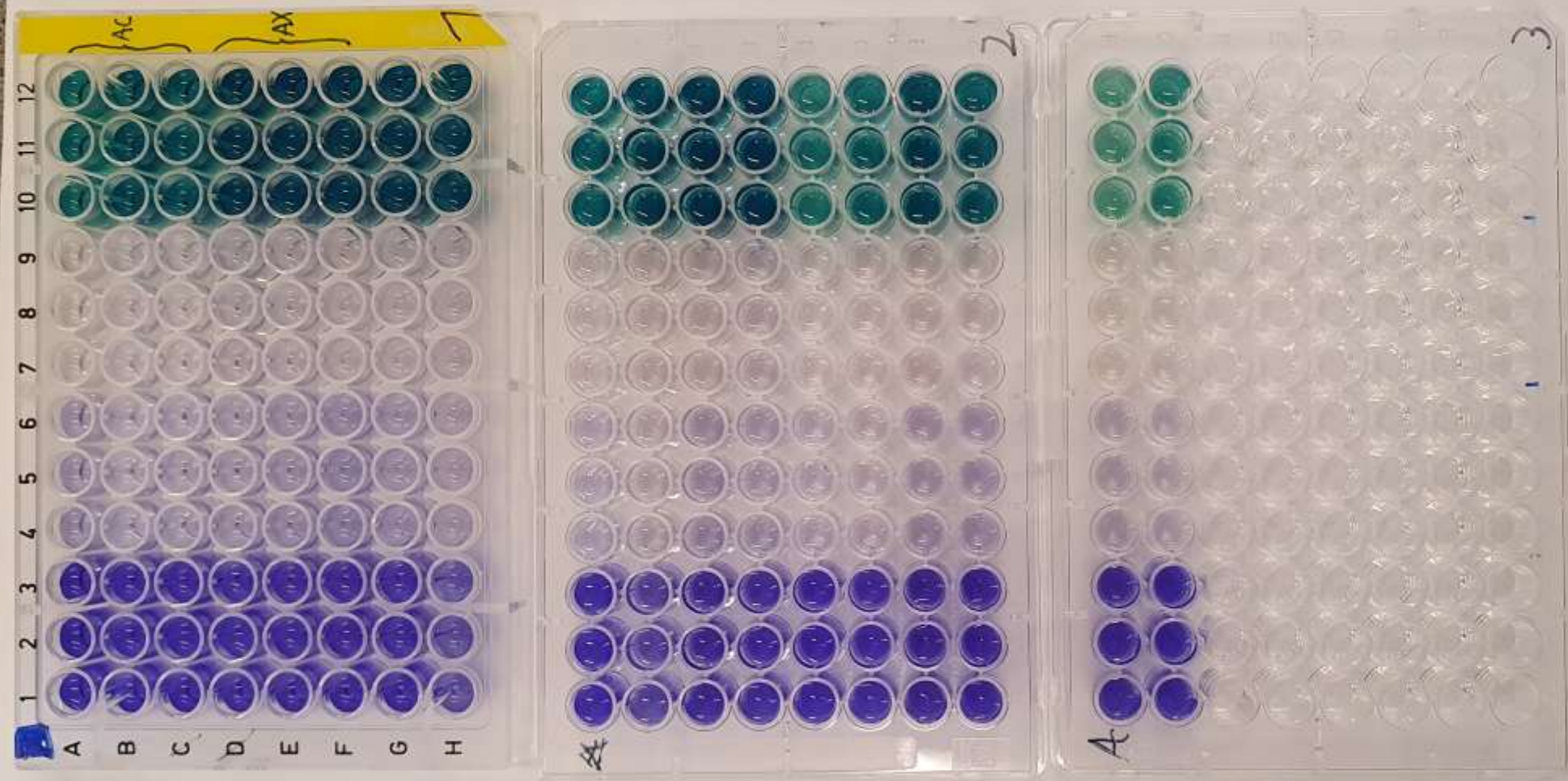
ELTE visit at Pilze-Nagy Kft. 2023.11.20.



ELTE visit at Pilze-Nagy Kft. 2023.11.20.



Laboratory work at ELTE



Laboratory work at ELTE

Laboratory work at ELTE



Laboratory work at ELTE





Sampling at Pilze-Nagy. 2024.08.07.



German-Hungarian international meeting at Pilze-Nagy. 2024.09.12.



German-Hungarian international meeting at Pilze-Nagy. 2024.09.12.



Ergo visit at ELTE. 2025.02.18.



German-Hungarian international meeting at Pilze-Nagy. 2025.02.19.

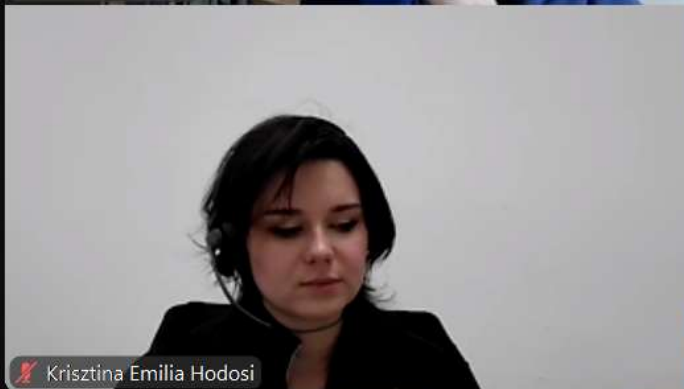


German-Hungarian international meeting at Pilze-Nagy. 2025.02.19.

Effect of C:N:P on *P. ostreatus* growth and activity

- Optimal C:N with diff. N sources
- Optimal C:N:P with varying nutrient levels (developmental and trace)
- Role of thiamine??
- Isolation of degraders from SMS
- Isolation of thiamine producing bacteria from SMS
- Co-inoculation with bacteria
 - PAH degraders
 - Soil bacteria with thiamine production
 - Isolated from SMS





Audio



Video



Participants



Chat



React



Share



Meeting info



Apps



More

Online Pleurorem meeting. 2025.03.07.

First small experiments with SMS

1) Using of SMS in different sizes.

→ The smaller the SMS, the better we can mix with the soil

→ But does the mushroom survive the reduction?

a) Cut the SMS in different sizes

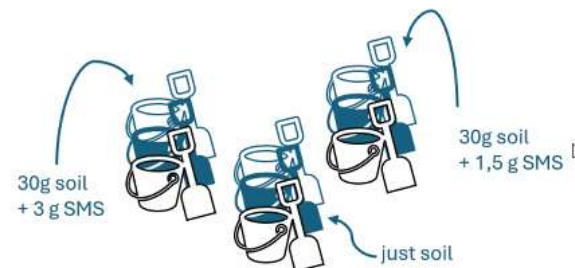
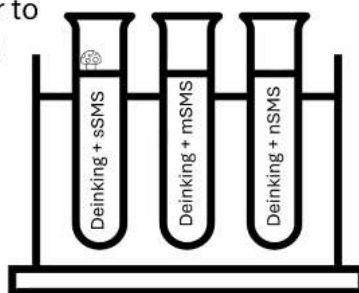
- Normal size (nSMS)
- Middle size (mSMS)
- Small size (sSMS)



b) Mix SMS + sawdust

c) Mushroom growing process

- room-temperature (21°C)
- high humidity (cover to minimise water loss)
- high soil moisture (watering at the beginning)



2) Check out different mixtures

→ Small percentages lead to huge masses of SMS in industrial scale.

→ Reduce percentages make it more manageable

→ Increase SMS portion to increase effectivity

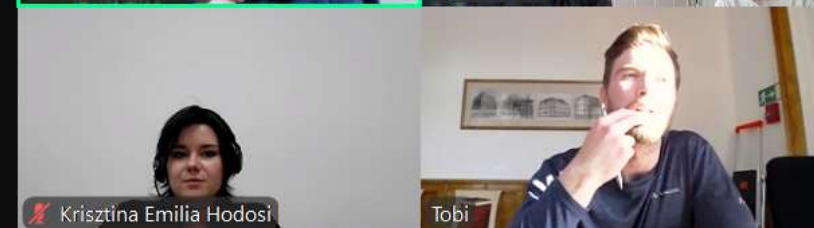
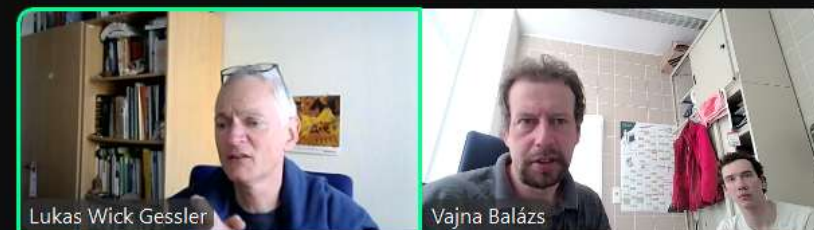
a) 8 buckets

- a) 3 soil with 5% SMS
- b) 3 soil with 10% SMS
- c) Soil without SMS

b) 10 days

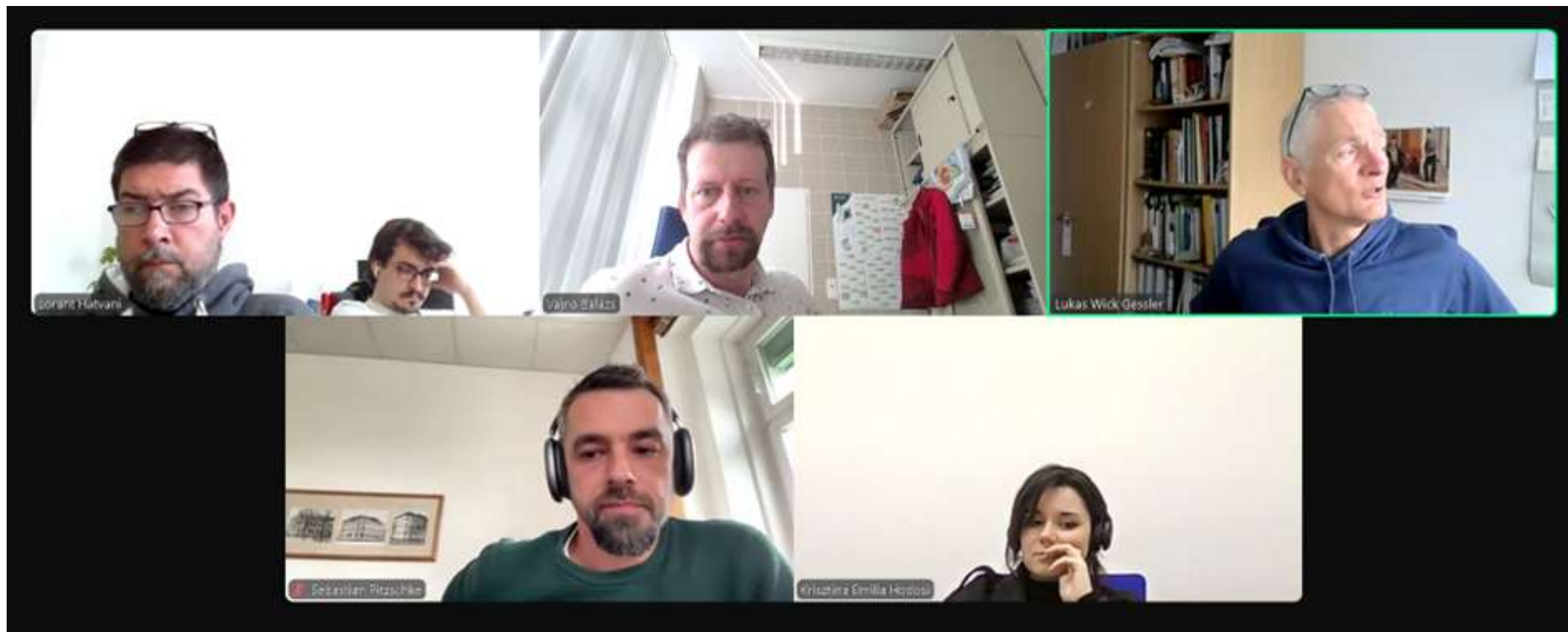
c) 3 measurements (MKW, PAK)

- a) Before
- b) After 5 days
- c) After 10 days

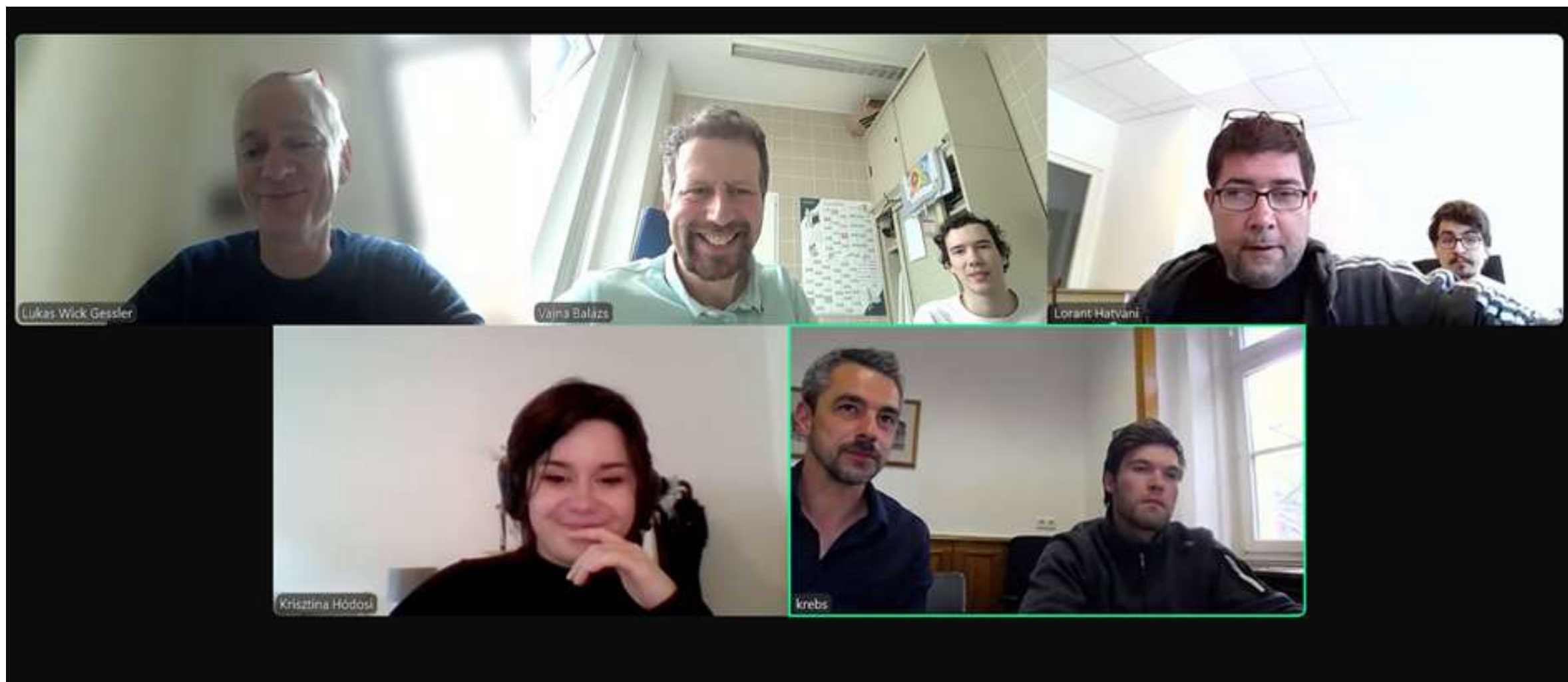




Hungarian partners Pleurorem meeting at ELTE, Budapest. 2025.03.17.



Online Pleurorem meeting. 2025.04.09.



Online Pleurorem meeting. 2025.04.25.



Pleurorem post-harvest treatment experiment. 2025.05.12.



Pleurorem post-harvest treatment experiment. 2025.05.12.



Pleurorem post-harvest treatment experiment. 2025.05.12.



Pleurorem post-harvest treat



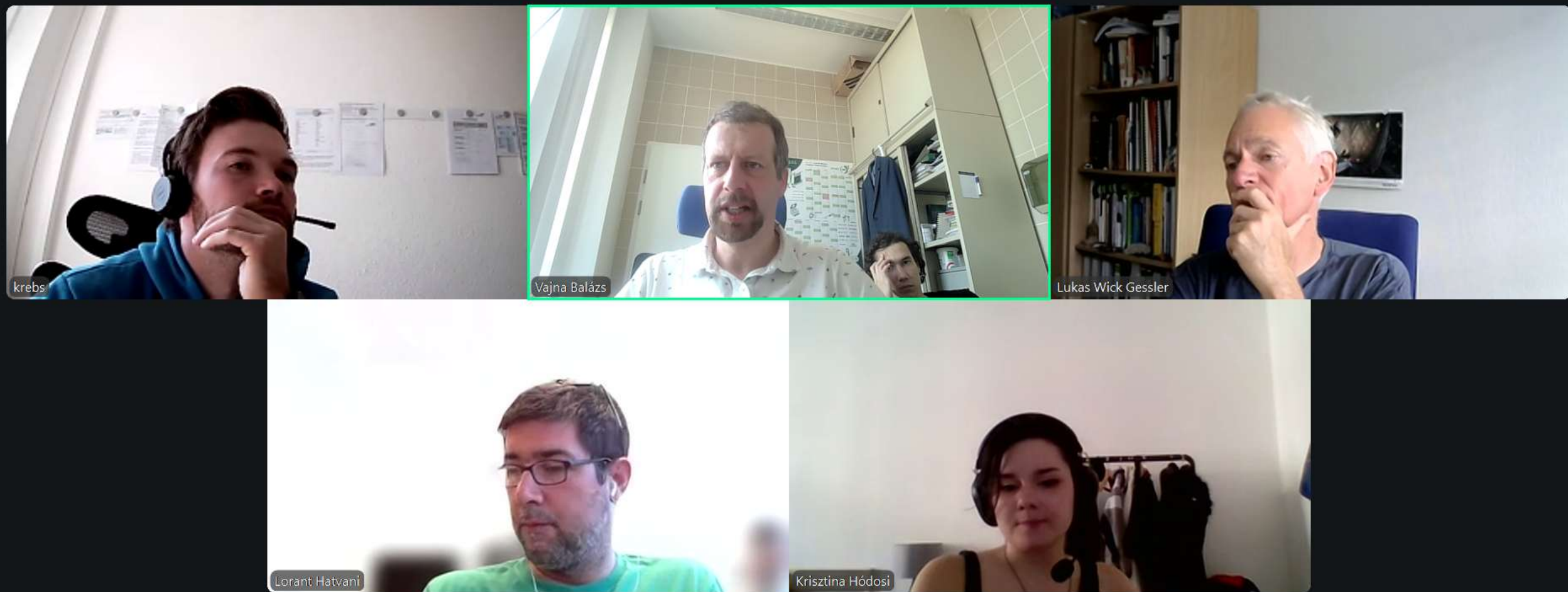
Pleurorem post-harvest treat



Pleurorem post-harvest treat



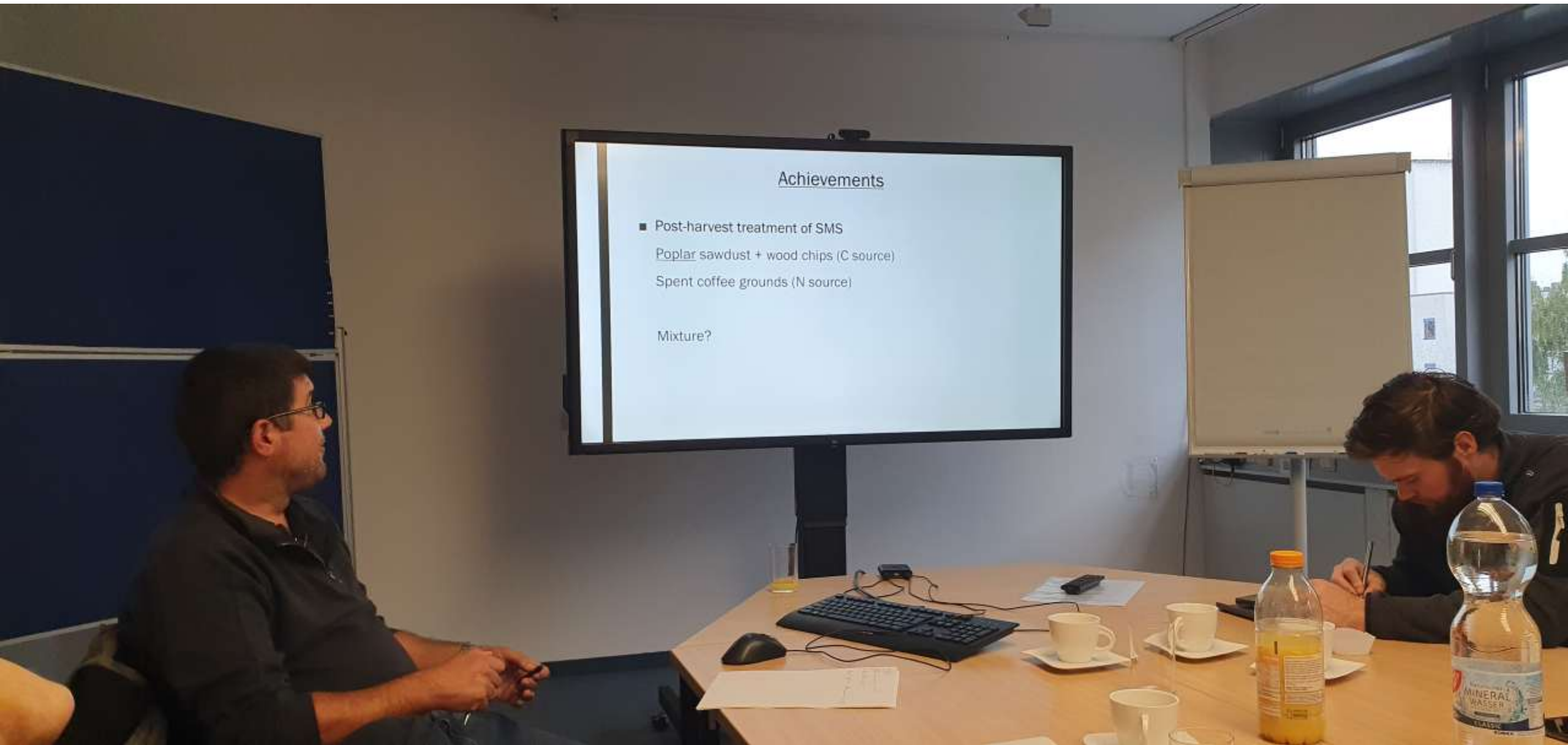
Online Pleurorem meeting for the scientific partners. 2025.06.04.



Online Pleurorem meeting. 2025.08.07.



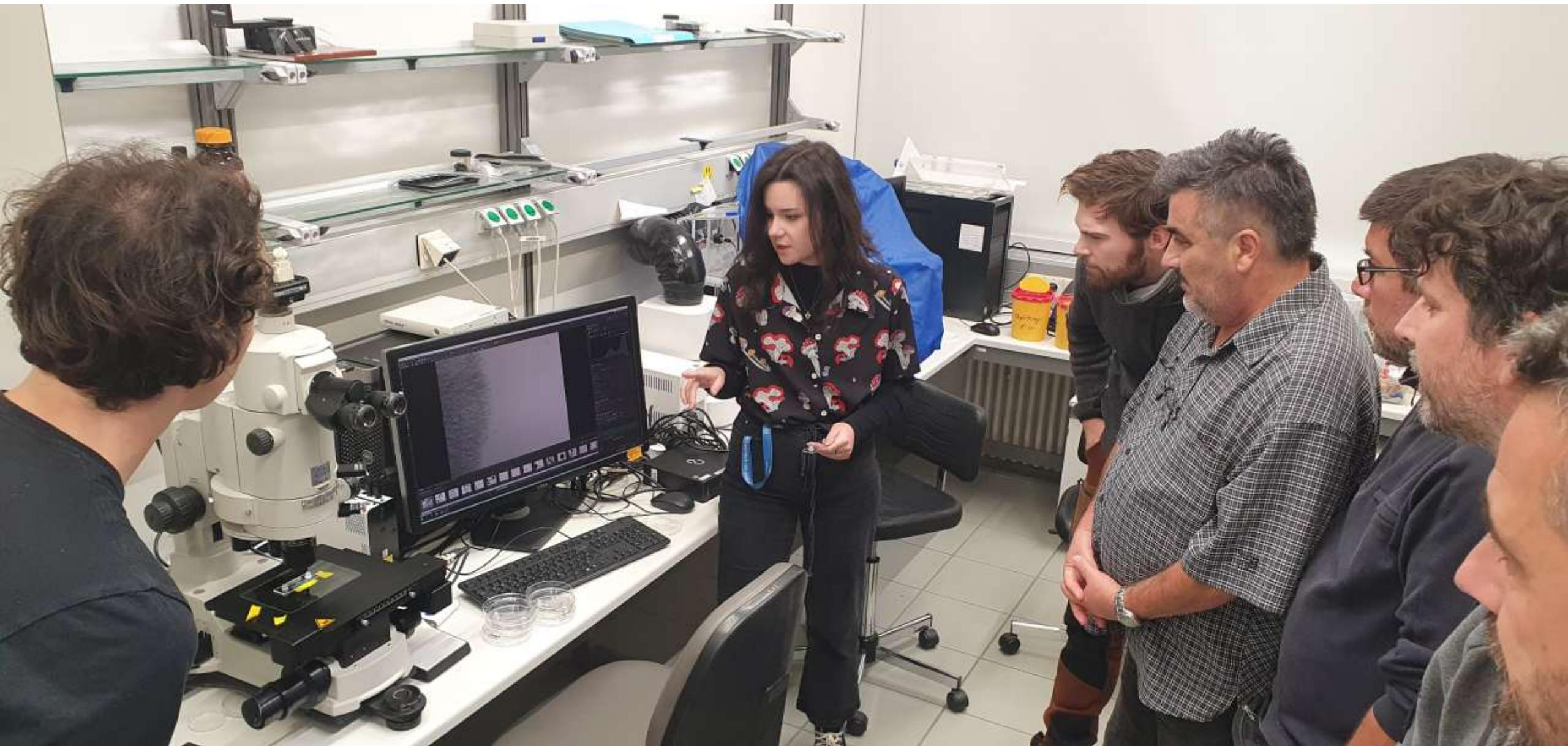
German-Hungarian international meeting at UFZ (Leipzig) & Ergo (Dresden) 2025.09.25-26.



Achievements

- Post-harvest treatment of SMS
 - Poplar sawdust + wood chips (C source)
 - Spent coffee grounds (N source)
 - Mixture?

German-Hungarian international meeting at UFZ (Leipzig) & Ergo (Dresden) 2025.09.25-26.



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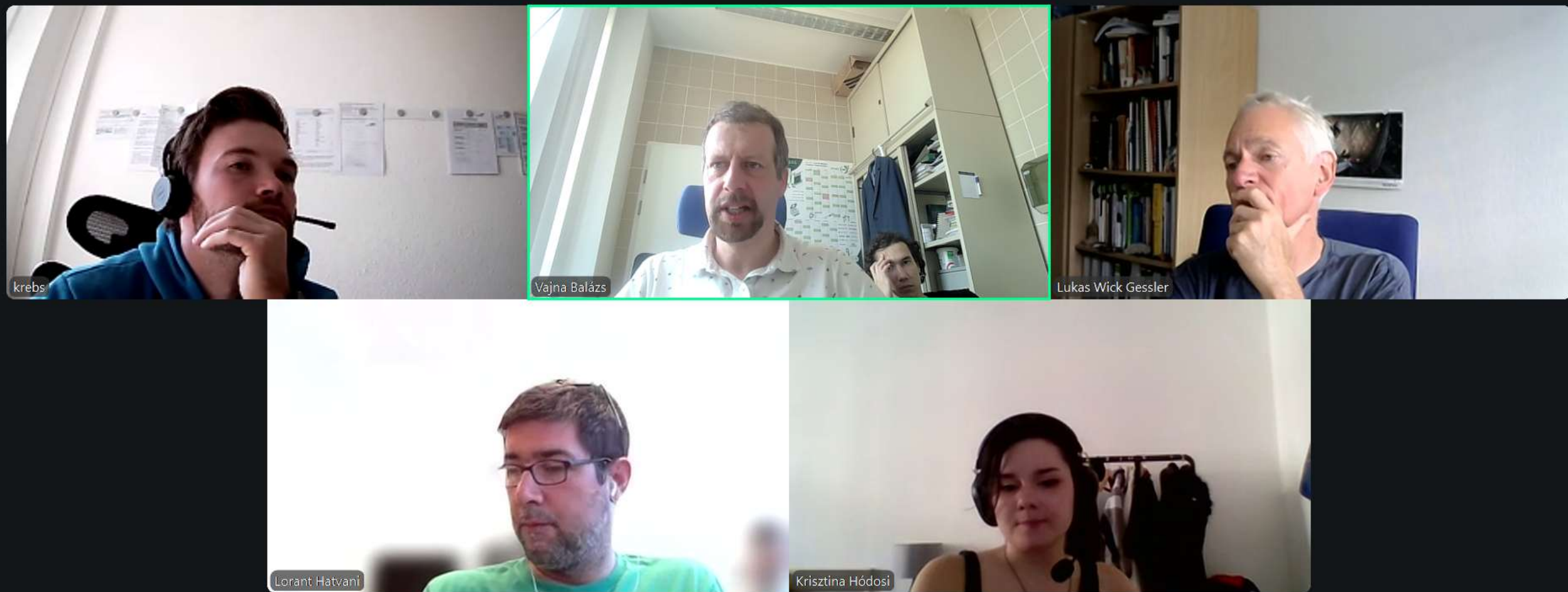
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Online Pleurorem meeting. 2025.10.27.