## TUM

# Operating instructions

DATE: 18.10.2023

WORKING AREA: TUMmesa (PTC) An der Mühle 20 85354 Freising Workplace: S1-ANNEX 1205

Building 4275

Rooms 0-02 (Climate chambers), 0-03 (Autoclave room)

**SCOPE OF APPLICATION** 

Genetic engineering work of safety level 1 TUM mesa phytochamber facility

#### DANGERS FOR PEOPLE AND THE ENVIRONMENT



§7 GenTG: "Genetic engineering work shall be assigned to safety level 1 if, according to the state of scientific knowledge, no risk to human health and the environment is to be assumed". In the genetic engineering facilities, work is carried out with GMO plants that have been developed according to the guidelines of safety level 1.

#### PROTECTIVE MEASURES AND RULES OF CONDUCT

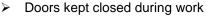


TUMmesa => Most of the experiments are done with non-transgenic material

#### Rules of conduct for **ALL USERS** (stay in an S1 facility)



The project manager shall <u>instruct all users</u> and employees in the form of a written instruction with control questions before the start of employment or once a year.



- > Empty laboratory benches after each work session; observe hygiene and skin protection plan
- Eating, drinking, smoking, snuffing, putting on make-up and storing food and stimulants as well as bringing pets into the S1 area are prohibited.
- No other chambers may be entered.
- Main and side entrance doors must ALWAYS be locked.
- The project leader logs the experiments in progress using a registration form that includes Form-Z (*FZ* only fill in users with S1 experiments).





- No direct transformation work may be carried out in the chambers (especially microbiological and molecular biological work). Only GMO plants are cultivated here.
- Climate chambers with S1 experiments are clearly marked on the outside
- Protective clothing (protective gowns) is worn in the S1 chambers.
- Cleaning of the chamber after the end of the experiment using S1 vacuum cleaner and disinfection with Bacillol and 3% bleach
- Any transport of GMOs takes place <u>exclusively</u> in **MESA-S1** transport boxes, also within the facility and from chamber to chamber (standing in the autoclave room).



- No GMOs are stored in TUMmesa.
- For inactivation, GMOs, their reproducible organs as well as their substrate are collected in the chamber in autoclave bags, packaged and autoclaved before disposal according to posted instructions (room 0-03). The autoclaving process must be documented in the list on display.

#### **ACTION IN CASE OF MALFUNCTIONS & EMERGENCIES**

- Incidents or emergencies => notify the project manager (PL) and/or the Biological Safety Officer (BBS).
- Major incidents => additionally the emergency number at the Government of Upper Bavaria during office hours: 089-2176-0

24h emergency call: **09131-6808-2500** (LGL alarm centre)

#### **CONTACT PERSON & FIRST AIDER**



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