# Background



For a deleading operation, a company wants to use old premises for its cantonments. Strong evidence for the presence of mould.

### Intervention of the LBC for assistance



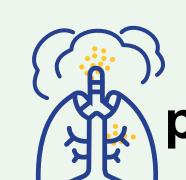
- Inspection of the premises: observation mouldy areas and extensive contamination.
- Sampling surface to objectify the fungal nature.
- Audit building for research origin of moisture and technical solutions to solve them.

## Conclusions

- Observation of the presence of mold in 2 of the 4 parts concerned.
- Identification (microscopy + molecular) of Stachybotrys chartarum, Gliomastix (murorum), several Penicillium and Doratomyces (stemonitis),
- Possible exposure of workers present in this environment to VOCs emitted, to spores, mycelium, other by-products of the mold growth,
- Possible effects on the health of workers by contact or inhalation:







#### Recommendations

Before workers use the quarters:



- Look for sources of moisture and solve problems
- Stop any spreading of moulds: isolate the contaminated parts from uncontaminated



- Ventilate and dry the wet parts
- Clean without dispersing moulds
- Adjust the cleaning procedures: methods, products, waste management, and PPE



- Return the premises in good state and install a ventilation
- Maintain good hygiene.





Identification of the main mould (not exhaustive)



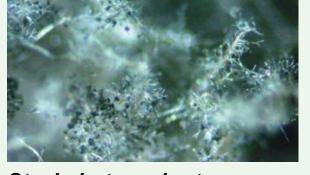
(Future refectory)

- Stachybotrys chartarum
- Gliomastix murorum
- Penicillium spp



(Future decontamination area - deleading operation)

- Stachybotrys chartarum
- Gliomastix murorum
- Penicillium spp
- Doratomyces stemonitis
- Cladosporium sp.



Stachybotrys chartarum binocular loupe (x40) - following culture and isolation



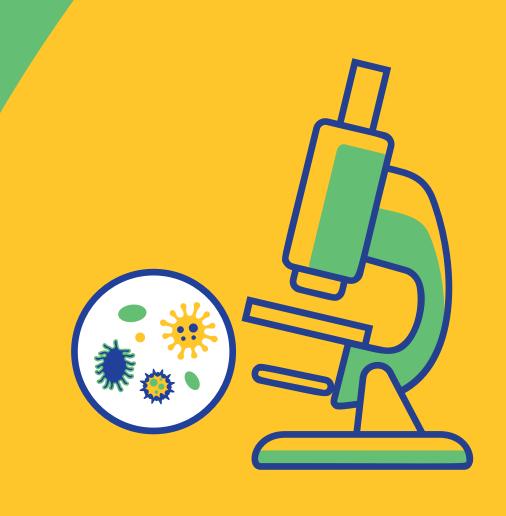
Doratomyces stemonitis microscopy after culture and isolation (x400)



Stachybotrys chartarum culture and isolation on MEA medium



Penicillium sp. microscopy after culture and isolation (x1000)



# **FUNGAL CONTAMINATION** OF WORKERS'QUARTERS: **OBSERVATIONS AND** RECOMMENDATIONS

Example of assistance by Biocontaminants Laboratory

> Brigitte Facon, Valérie Renevot and Alexandra Pedros

Email: brigitte.facon@assurance-maladie.fr Preventionlbc.cramif@assurance-maladie.fr

