











ECCO XXXIII Molecular Taxonomy: from biodiversity to biotechnology

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## Study of the viability of *Aspergillus* strains freeze-dried in 1955

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The Institute of Hygiene and Tropical Medicine (IHMT) entrusted to Micoteca of the University of Minho (MUM) a set of freeze-dried glass ampoules untouched for nearly 60 years. Forty-six ampoules with cultures of fifteen species of *Aspergillus* were open and its viability was tested.

The revival procedure consisted in rehydrating the ampoules using malt extract-glucoseyeast extract-peptone medium (MGYP) from 24 to 48 hours. A portion was then plated in malt extract agar (MEA) and incubated at 25 °C, as well as the rest of the material inside the ampoule. All plates and ampoules were daily observed.

Results showed that 98% of the freeze-dried cultures were not viable and the sole exception was of an ampoule with a strain of *Aspergillus fumigatus* (513.5e). With the revival of this strain, a morphological and proteomic characterization of the 60 year old culture was done and will be integrated as a new holding in MUM after complete polyphasic characterisation.