

# Pore fungi of the Albertine Rift, Western Uganda.

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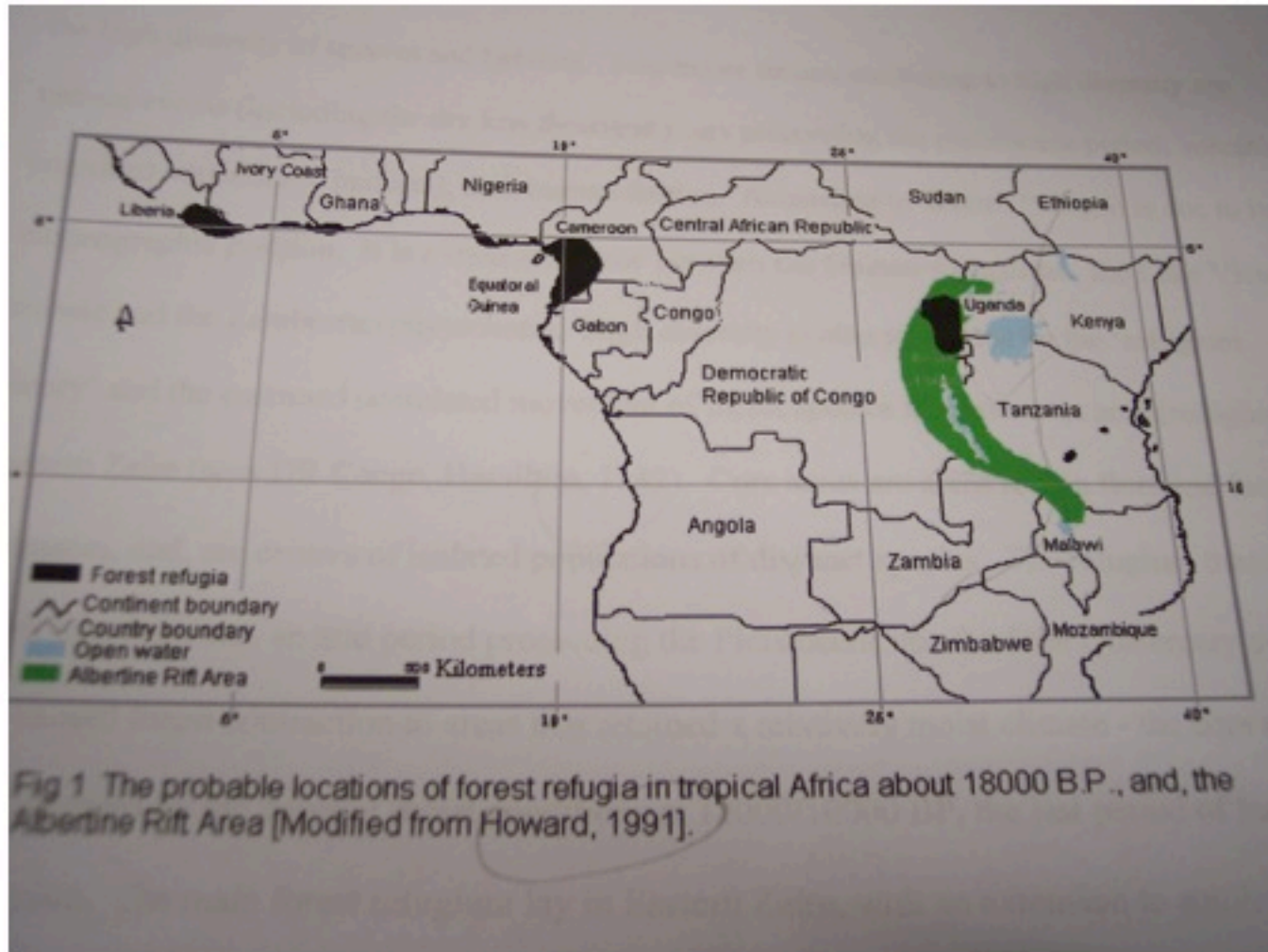
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# Albertine Rift



## CURRENT ACTIVITIES



- 1. Lecturer** – Microbiology, Plant pathology, Biosystematics, Plant form and classification
- 2. Taxonomic activities:**
  - Pore/other fungi – collection, identification, preservation
  - Kalinzu Forest Reserve (Albertine rift):
    - Genus *Ficus* (Moraceae) – demography/phenology
    - Medicinal plants – *Warburgia ugandensis* (Canellaceae): demography/phenology
    - Forest regeneration
  - Other - Bark cloth *Ficus* spp, Witches' brooms, AMA - **IUCN Red Listing**
- 3. Managing Myco-collection, Makerere**
  - mostly Ugandan material – about 2000 collections

# GTI - Fungi species

## Belgian tutor: Dr Cony Decock - MUCL



- **Dr Decock - examiner** of my **PhD thesis** (Taxonomy/ diversity of pore fungi in Kibale and Bwindi forests, 2005)

### **Prof Leif Ryvarden - supervisor**

- roughly 62 genera, 173 spp.

- Target taxa: Species with ID in question:

- *Phellinus* (3 spp): *P. punctatus*, *P. pseudopunctatus*, *P. undulatus*

- *Perenniporia* (6 spp): *P. contraria*, *P. djaensis*, *P. inflexibilis*, *P. japonica*, *P. martius* and *P. ?mundula*

- ?*Navisporus africanus*

Need to revisit Det. of many other spp



# Progress



## GTI 1 Grant, 2007

- Ipulet: Belgium - microscopic work, DNA analysis, fieldwork
- Training in fungi collection/ID: Uganda & DR Congo
  - 1 Uganda PhD visited Belgium 2007-08, is Cony's student,
  - 1 DR Congo PhD at MUCL
  - 1DR Congo short visit to MUCL
- Fresh fungi material for DNA analysis was collected – subject of current visit ([see previous slide - 4](#)); draft papers; ID others

# Pore fungi / other, Uganda



?*Navisporus*



*Laetiporus*



?*Daedalea*



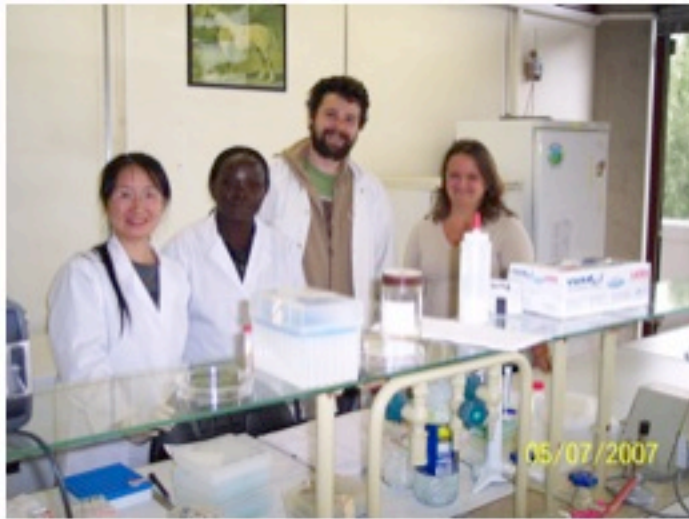
Tropical Witches' brooms - *Grewia*



Bark cloth project - Masaka



# GTI1 Training: Belgium, 2007



Molecular Lab, MUCL

Myco Lab,  
MUCL



Fungi collecting, Liege

Culture collection,  
MUCL





# GTI1 Training: DR Congo, Mt Rwenzori, 2008



On a mountain trail



Camp 1 - Kyandolire



Mutsora, Ganoderma on *Elaeis*



No vehicles beyond this point!



# Drying/Preserving fungi, Uganda



Kalinzu Research Station  
- Paraffin lanterns



driers



Specimen  
boxes

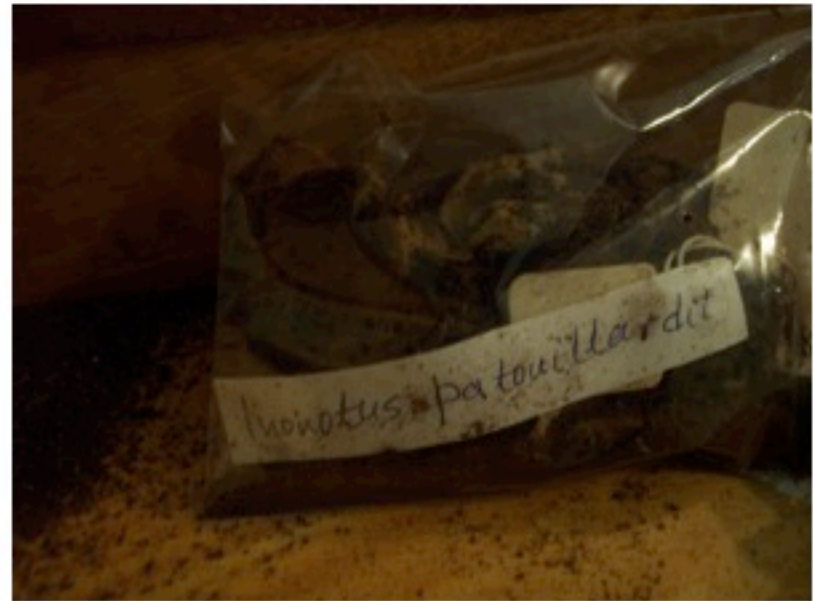


Lab – wooden electric drier

# Uganda Myco-collection: challenges



- Collecting done in < 5% of the country, ?E.Africa
- Very few local mycologists/no full time researchers
- Poor facilities – space, lab equipment, reagents
- Poor management of collections - loss of material



Specimen attacked by bugs - ?beetles



# Conservation concerns – habitat (forest) loss



Timber



Wood fuel/Charcoal



Hoe handles



Herbal medicines



Settlements, agriculture





## GTI contributions – direct / indirect



- \*\*Capacity building – UG, DRC
- Publications in progress – Cony, Leif, etc
- \*\*Collecting in poorly explored areas – link with central/west African forests e.g. Congo, Gabon
- Improve knowledge on poorly known taxa – with more material being collected
- Better management of collections, ID – scientists, students, mushroom farmers
- IUCN red listing – African Mycological Association (AMA) for African spp.
- Research findings – important in conservation issues

*Merci*

