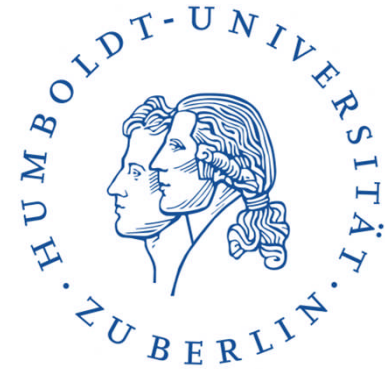


Who we are...

AG Botany & Arboretum (Prof. Zoglauer)
Institute for Biology
Humboldt-Universität zu Berlin



Main research topic:

Somatic embryogenesis in conifers
- as future-oriented alternative to seed propagation/breeding of elite trees

Conifer species in our repertoire:

Larix decidua, Larix x eurolepis, Pseudotsuga menziesii, Abies spp. (Christmas trees), Picea spp., Pinus spp.

Our competences:

Somatic embryogenesis (induction, maturation, germination, acclimatisation)
Cryopreservation
Establishment of a large data and clone collection
Protoplast techniques (isolation, fusion)
Molecular analyses, genetic transformation

Current joined projects:

DendroMax (funded by FNR)
OptiTanne (funded by BMBF)

Our ideas and interests for ForestValue...

(with regard to Charter for wood 2.0 (BMEL))

Sustainable management of forests

Ressource wood and forest:

- *Longterm increase of available wood potentials*
 - *Securing availabilty of conifer woods*
- and*

Cluster forest and wood:

- *Increase of turn-over and EVA in the cluster forest & wood*



- 1. Development of an automated mass propagation system for somatic embryos**
- 2. Design a strategy to unfold the potential of somatically generated trees with superiour characteristics for forestry (trade ability)**

New production technologies, industrial processing, products and services in the forestry-wood sector

Material- and energy efficiency

- *Energy efficiency in wood and paper economy*



- 3. Establishment of an alternative and sustainable system for cellulose delivery**

Research and development



- 4. Basics and genetic regulation of somatic embryo initiation, development and mass propagation**



- 5. Analysis and enrichment of specific ingredients/contents in somatic embryo cultures**

We are looking for...

- Partners from the field of horticulture, nursery, tree breeding, forest owners and foresters who are interested in growing of somatic plants and evaluation of their economic and growth specific advantages
- Biotechnological enterprises for the generation of a bioreactor and a production line
- Partners who are looking for alternatives for paper- and polymer- products (industry/research)
- Laboratories with expertise in analytical methods (HPLC, GC/MS, etc.)



We are looking forward to an engaging and mutually beneficial cooperation!