Thesis topics "Anatomy and Ecophysiology of Mangroves"

WHAT? To get a first idea about our research, you can have a look at our website: www.vub.ac.be/APNA (Mangroves and Biocomplexity > Hydraulic architecture of mangroves).

WHERE? Laboratory of Plant Biology and Nature Management (APNA) of the Vrije Universiteit Brussel and the wood laboratory of the Royal Museum for Central Africa in Tervuren

TOPICS? There are ample of unsolved questions and we would be happy to strengthen our team with motivated students to strive together to a deeper insight into the reason why mangroves are restricted to the (sub)tropical intertidal area. We approach this question via a combination of anatomical, ecological, as well as physiological research.

- Which parts of the water transport system have a functional significance and which do only have a genetic base?
    - Interaction anatomy-ecology-physiology
    - Hydraulic modelling to better understand this
    - Molecular mechanisms of the formation of the water transport system
- What is the impact of climate and local environmental conditions on the water transport system on a global scale?
    - Interaction genetics-anatomy-physiology-dispersal
    - Effect of extreme drought and frost on anatomy and physiology
- What is the link between anatomy of propagules and the dispersal of the different mangrove species?
    - Link anatomy-settlement success of propagules
    - Link anatomy and (long distance) dispersal
    - Advantage of long propagules vs. compact fruits

When you are interested or when you wish to have some more information, feel free to contact us.

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