

<b>Georg-August-Universität Göttingen</b> <b>Universität Kassel/Witzenhausen</b> <b>Module M.SIA.P13: Agrobiodiversity and plant genetic resources in the tropics</b>		6 C 4 WLH
<b>Learning outcome, core skills:</b> Students are able to understand the role of agrobiodiversity in tropical agro-ecosystems, to present approaches of functional biodiversity analysis and to discuss the needs and strategies of on-farm (in situ) and off-farm conservation of plant genetic resources.		<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Course: M.SIA.P13.C Agrobiodiversity and plant genetic resources in the tropics</b> (Lecture, Seminar) <i>Contents:</i> Case-study based analysis of the role of biodiversity for selected crops in different agroecosystems from the arid to the humid climate zones; importance of biodiversity for the stability / sustainability of smallholder (subsistence) versus commodity-oriented commercial agriculture in the Tropics, assessment and utilization of diversity, principles and practices in conservation of genetic resources, role of homegardens and indigenous wild fruit trees for in situ conservation of biodiversity, causes and consequences of genetic erosion, approaches of germplasm collection.		4 WLH
<b>Examination: Oral exam (about 15 minutes, 60%) and presentation (about 20 minutes, 40%)</b> M.SIA.P13.Mp: Agrobiodiversity and plant genetic resources in the tropics <b>Examination requirements:</b> Students should be able to understand the role of agrobiodiversity in tropical agroecosystems, to present basic approaches to functionally analyse biodiversity and to discuss the need of and strategies for in and ex situ conservation of genetic resources.		6 C
<b>Admission requirements:</b> none	<b>Recommended previous knowledge:</b> Basic knowledge in plant and soil sciences	
<b>Language:</b> English	<b>Person responsible for module:</b> Prof. Dr. Gunter Backes	
<b>Course frequency:</b> each winter semester; Witzenhausen	<b>Duration:</b> 1 semester[s]	
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b>	
<b>Maximum number of students:</b> not limited		
<b>Additional notes and regulations:</b> Literature: Altieri, M. 1987: Agroecology: the scientific basis of alternative agriculture. Westview Press, Boulder,		

Colorado, USA; Eyzaguirre, P.B., Linares, O.F. 2004: Home gardens and agrobiodiversity. Smithsonian Books, Washington, USA; Wood, D., Lenne, J.M. 1999: Agrobiodiversity: Characterization, utilization and management. CABI Publishing, Wallingford, UK.