

# Introduction to Forest Genetics

## Tutorial for Beginners

For whom?	Mainly for the master students „Tropical and International Forestry“, who have no or almost no knowledge of genetics
Why?	To understand the lecture “Tropical Forest Genetics” (Prof. Finkeldey)
What is it about?	<ol style="list-style-type: none"><li>1. Introduction to Genetics<ul style="list-style-type: none"><li>- DNA &amp; RNA</li><li>- DNA Replication &amp; Mitosis</li><li>- From DNA to Proteins – Protein Biosynthesis</li><li>- Meiosis</li><li>- Mendelian Inheritance</li><li>- Mutation</li><li>- Why trees are special</li></ul></li><li>2. Molecular Methods and Markers<ul style="list-style-type: none"><li>- Important Molecular Methods (PCR, Electrophoresis, Sequencing,...)</li><li>- Different Markers to Investigate Forest Trees (Isoenzymes, AFLP, SSRs, SNPs, ...)</li><li>- Lab Excursion</li></ul></li><li>3. Examples and studies</li></ol> <p style="text-align: center;"><b>Open for your questions and requests</b></p>
When?	04/04/2013            09:00 a.m. – 12:00 04/05/2013            09:00 a.m. – 12:00
Where?	Büsgenweg 2, FSR 2.1
Who?	Dr. Sarah Seifert and Markus Müller