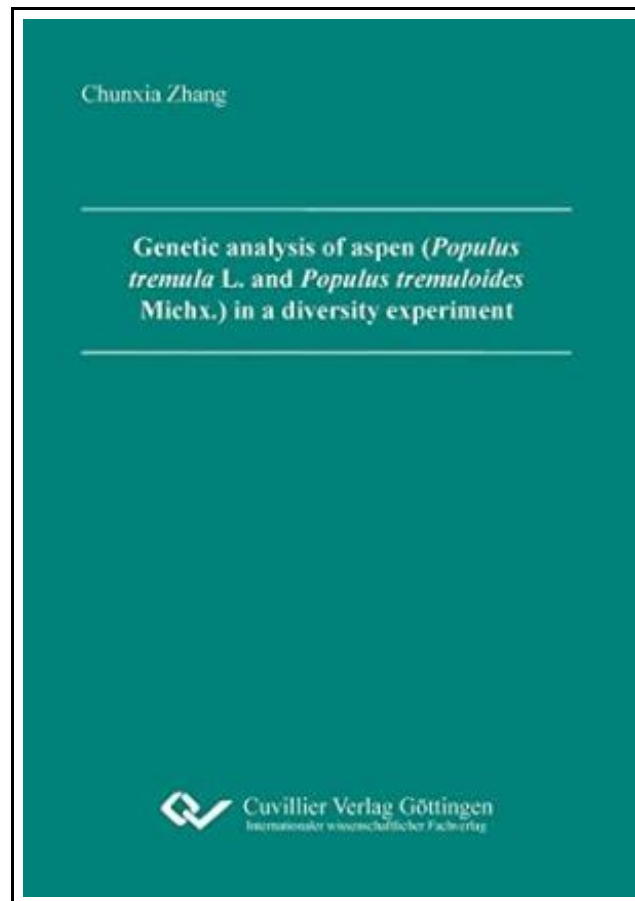


## Genetic analysis of aspen (*Populus tremula* L. and *Populus tremuloides* Michx.) in a diversity experiment



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## GENETIC ANALYSIS OF ASPEN (POPULUS TREMULA L. AND POPULUS TREMULOIDES MICHX.) IN A DIVERSITY EXPERIMENT



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Cuvillier Verlag Aug 2012, 2012. Taschenbuch. Book Condition: Neu. 208x149x9 mm. Neuware - Poplars are model tree species in ecological and genetic studies since they are widely distributed, easy to propagate, and since more genetic and genomic resources are available for poplars than for any other woody plant genus. The poplar diversity experiment (POPDIV) has been established with European and North American aspen (Populus tremula L., P. tremuloides Michx.) planted in plots representing either a single deme only or combinations of two, four and eight demes in order to test the influence of intraspecific genetic diversity on ecosystem functions and services. In the present study, the most commonly used molecular markers, SSRs (simple sequence repeats) and AFLPs (amplified fragment length polymorphisms), were applied to conduct the genetic analysis of the POPDIV experiment. Both markers identified clonal structures in one Swedish deme and these clones are non-randomly distributed in the POPDIV experimental field. Large differences with regard to the genetic diversity within aspen demes were observed. The genetic diversity estimates based on SSR and AFLP markers showed a high correlation. The North American P. tremuloides deme had the highest level of genetic diversity; most private alleles both at SSRs and AFLPs were also observed in this deme which confirmed that it represents another species different from the European P. tremula. An analysis of molecular variance (AMOVA) revealed that most of the total genetic diversity was found within demes by both SSR and AFLP markers, but the genetic differentiation among demes was also high. Pairwise  $F_{ST}$  values between demes showed highly significant differentiation at both SSRs and AFLPs. As expected, the P. tremuloides deme was strongly differentiated from the other P. tremula demes. UPGMA dendrograms based on genetic distances obtained from both markers showed that the North American P. tremuloides deme is...

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