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prop erties. Genetic control is a major source of variation in most wood

Genetics of Wood Production by Bruce J. Zobel, Jackson B ...

Emphasis in this book will be on the internal control of wood production by genetics although there will be two chapters dealing with the indirect

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genetic control of wood, which was covered in detail in the previous book by Zobel and van Buijtenen (1989). The literature on the genetics of wood is very variable, SO'lle quite superficial, on ...

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variation in most wood properties. Wood is controlled genetically both directly in the developmental or internal processes of wood formation and indirectly by the control of tree form and growth patterns.

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primary objectives of a forest tree improvement program. A considerable amount of wood variation is under genetic control and thus genetic manipulation is an effective ...

Genetics of Wood Production (eBook, 1995) [WorldCat.org]

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variation in most wood properties. Wood is controlled genetically both directly in the developmental or internal processes of wood formation and indirectly by the control of tree form and growth patterns.

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Many people felt that if growth, form,

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and adaptability were central to a genetics program, there would be little opportunity left for altering wood, even if there were strong genetic control.

However, as noted by Zobel (1972):
“Addition of a wood property will enable moderate changes in wood while still being able to maintain the desired form, growth, and adaptability.”

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The Role of Genetics in Wood Production – General Concepts ...

The internal, genetic process of wood formation is concentrated upon in this text as wood quality and uniformity become primary objectives of a forest tree improvement program. A range of wood variation is under genetic control

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and thus genetic manipulation as an effective tool is documented.

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The emphasis here is on the internal control of wood production by genetics, although there are 2 chapters dealing with indirect control (which was covered

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in detail in the earlier book). There are 13 chapters: (1) The role of genetics in wood...

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Wood properties (WPs) have also become mandatory traits in breeding programmes for the development of

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improved varieties for pulp and paper, energy wood or timber production. WPs vary greatly between species, within species and within a tree (reviewed by Plomion et al.) and change with age (reviewed by Raymond). They can be classified in five categories: i) mechanical properties in response to applied forces (e.g. longitudinal growth

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strain, modulus of elasticity, strength), ii
...

Comprehensive genetic dissection of wood properties in a ...

Genetic engineering is based on an approach historically derived from studies of single genes with qualitative ef-
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fects, whereas quantitative genetics used for traditional breeding analysis has improved many important properties of plants by selecting for larger numbers of loci exerting small quantitative effects.

Genetic engineering of wood - ScienceDirect

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Conceptual systems genetic model of wood formation. Traits (yellow blocks) are modeled in the context of variation in expression of protein coding genes (circles), miRNAs (arrowheads) and metabolites (diamonds). Extrinsic stressors (triangles) and intrinsic epigenetic marks (hexagons) can be integrated as components.

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Bioenergy: Genetics of wood formation -- ScienceDaily

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means to improve the environmental sustainability of energy, wood, and paper production in trees using genomics (entire DNA) and genetic engineering methods.

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Results of this study indicate that it is possible to select for an earlier MFA transition from juvenile wood to mature wood in Norway spruce and lodgepole pine selective breeding programs, as the genetic gains (ΔG) obtained in direct

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selection of this trait were very high in both species.

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