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Wood is controlled genetically both directly in the developmental or internal

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processes of wood formation and indirectly by the control of tree form and growth patterns.

Genetics of Wood Production | Bruce J. Zobel | Springer

Genetic control is a major source of variation in most wood properties. Wood is controlled genetically both directly in

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the developmental or internal processes of wood formation and indirectly by the control of tree form and growth patterns.

Genetics of Wood Production | SpringerLink

A considerable amount of wood variation is under genetic control and thus genetic manipulation is an effective tool to

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change wood properties. Wood is controlled genetically both directly in the developmental or internal process of wood formation and indirectly by the control of form and growth. Emphasis in this book is on internal control.

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

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Yet the manufacturer 18 The Role of Genetics in Wood Production of a specific product prefers a uniform wood. The expressed desire of most industries is to have more uniformity in the wood raw material they are using; the more uniform the basic wood used, the better will be the quality of the desired specific product.

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Download Genetics of Wood Production by Prof. Dr. Bruce J ...

The emphasis here is on the internal control of wood production by genetics genetics Subject Category: Disciplines, Occupations and Industries see more details, although there are 2 chapters dealing with indirect control (which was

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covered in detail in the earlier book).

Genetics of wood production. - CAB Direct

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

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wood variation is under genetic control and thus genetic manipulation as an effective tool is documented.

Genetics of wood production (Book, 1995) [WorldCat.org]

For many years most tree improvement programs included growth, form, adaptability, and pest resistance in their

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assessments but did not include wood properties as such. It was recognized that tree... The Role of Genetics in Wood Production — General Concepts | SpringerLink

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

Wood is an important renewable

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material for bioenergy and other industrial products, but its formation, a complex process regulated at many levels, is poorly understood. Such processes often...

Bioenergy: Genetics of wood formation -- ScienceDaily
Genetic engineering GENETIC

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ENGINEERING OF WOOD 313 of specialized genotypes of commercially important species may therefore be more desirable. Current policy in the NCSU Tree Improvement Program is to select for height at 8 years, as the best predictor of wood production, in addition to disease resistance and stem morphology.

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Genetic engineering of wood - ScienceDirect

Wood development is closely linked to core metabolism in a bowtie architecture. Systems genetics reveals how component traits contribute to complex wood traits.

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Systems genetics of wood formation - ScienceDirect

Genetic control is a major source of 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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Genetics of Wood Production by Bruce J. Zobel, Jackson B ...

Genetic modification of wood quality for second-generation biofuel production. Lu S(1), Li L, Zhou G. Author information: (1)Medicinal Plant Cultivation Research Center, Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences & Peking Union Medical

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College, China.

Genetic modification of wood quality for second-generation ...

However, lignin can probably be converted into Genetic modification of targeted tree traits aim to enhance wood properties and processing will pave the way towards efficient

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bioconversion of woody cellulosic biomass into biofuels and other energy applications. ...

(PDF) Genetic modification of wood quality for second ...

The outlook for global wood production from planted forests to 2030 was estimated based on a survey of planted

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forests in 61 countries, representing about 95 percent of the estimated global planted forest area (FAO, 2006b).

Global demand for wood products

Poplar research explores what genes do (functional genomics), while Douglas-fir research looks for the genetic underpinnings of wood quality and

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adaptations such as cold hardiness. Research in tree physiology explores the physiological mechanisms of growth and ecology of forest trees, such as aging processes in forest trees,...

Genetics and Physiology | College of Forestry

Wood properties of forest tree species

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have wide natural genetic variation and are typically under stronger genetic control than growth traits (White et al., 2007). Wood is composed of about 25% lignin, and 70% cellulose-based carbohydrates, including approximately 45% cellulose and 25% hemicellulose (Sjöström, 1993).

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Genetically engineered trees for plantation forests: key ...

Genetic improvement for wood production in *Melaleuca cajuputi* Article (PDF Available) in Journal of Tropical Forest Science 31(2):230-239 · May 2019 with 90 Reads How we measure 'reads'

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(PDF) Genetic improvement for wood production in Melaleuca ...

Traditional tree breeding programs in the southern United States have emphasized the maximization of volume production over wood properties like specific gravity and while attempts have been made to hold wood properties constant during breeding efforts,

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negative genetic correlations between growth and specific gravity suggest that selecting for ...

Investigate the genetics of forest tree ecosystems and to ...

The Role of Genetics in Wool Production
Wool Production focuses on the characteristics of Merino wool which

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influence its value, such as fleece weight, average fibre diameter, staple strength, staple length, colour, vegetable matter and style.

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