Agrivida Presentation to TIMBR Conference

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Agrivida Delivers Low Cost Sugars from Cellulosic Biomass

Agrivida Energy Crops

Our engineered feedstocks enable production of a wide range of industrial biotechnology products.

Applications

Biofuels: ethanol, butanol, synthetic diesels

Chemicals: monomers, polymers, plastics

Enzymes, industrial proteins

Animal Feed
Biofuel Production

Current Feedstocks
- corn grain $$$$  
- cane sugar $  

Future Feedstocks
- bagasse $  
- corn stover $  
- energy crops $  

Agrivida's technology
- ethanol  
  butanol  
  synthetic hydrocarbons  
  chemicals

$25-$45/bbl oil

Agrivida provides benefits to the entire value-chain:
- Farmers: increased product portfolio  
- Producers: ethanol production savings  
- Consumers: reduced greenhouse gas emissions

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Agrivida GreenGenes™ Technology

1. Agrivida’s proprietary molecular engineering technology produces energy crops containing dormant enzymes.

2. The dormant enzymes are activated using a proprietary switch after harvest.

3. The activated enzymes degrade the cell wall, converting cellulose into sugar.
Agrivida Capabilities

- Expression, characterization, and optimization of cell wall degrading enzymes

  - Automated gene assembly, validation, and cloning

  - High-throughput screening, candidate identification and characterization

- Plant transformation

  - Protein engineering

  - Mutagenesis
Commercialization Strategy

Agrivida
GreenGenes
Cellulosic
Energy Crops

Technology Integration
Seed Generation and Regulatory Approval
Process Development and Construction

Product Launch

Trait Optimization
Today

Seed Partners
Field Trials

Engineering Partners
Process demonstrations
Facility operation
4-5 years

Trait license royalties
Biofuel royalties and production revenues

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