



INSTITUTE FOR CELLULAR ENGINEERING

Transcriptional Regulation of Cellulose Biosynthesis in Plants

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Plant secondary cell walls are comprised of mostly lignin, polysaccharides cellulose and hemicelluloses which sources of low cost sugars to make biofuels.

One mechanism which regulates cell wall biosynthesis is the activity of transcription factors that control the higher order of growth and differentiation.

We seek a systems level insight into regulatory networks affecting plant growth, development and cell wall biosynthesis that will lead to a better understanding of bioenergy properties.

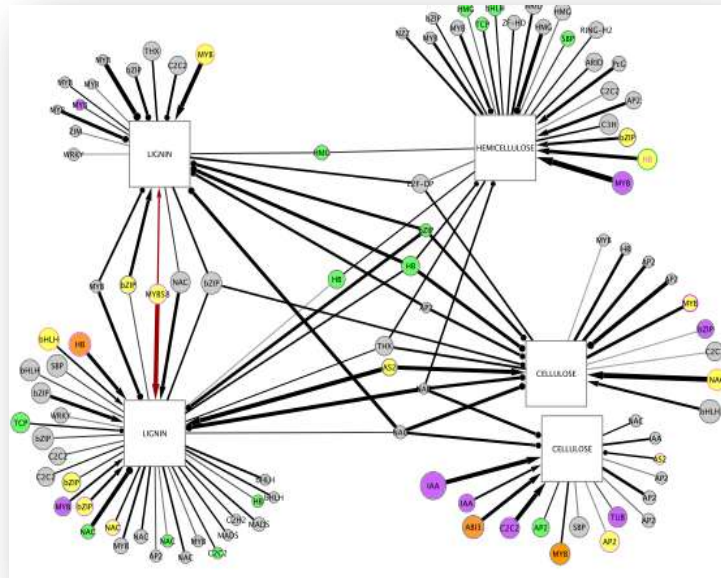


Figure 1. Protein-DNA interaction network for cell wall biosynthesis