

Special Issue

Improvement and Plant Physiology of *Robinia pseudoacacia*

Message from the Guest Editors

Black locust (*Robinia pseudoacacia* L.) is a fast-growing, N-fixing, multi-purpose tree native to North America, valued for its high photosynthetic rate, drought tolerance, and balanced water regulatory strategy. Its adaptability makes it ideal for reforestation, carbon sequestration, and apiculture, while its durable, rot-resistant wood offers a sustainable timber alternative. To produce quality wood, understanding its phytophysiological characteristics is essential. Climate resilience can be enhanced through seed transfer from preadapted populations, seed orchards, or vegetative propagation methods. This Special Issue welcomes studies on black locust improvement and plant physiology, including: new clones; physiological responses to drought and heat stress; net assimilation; carbon sequestration; light response curves; water use strategies and efficiency; chlorophyll content; multispectral analyses; flowering characteristics; fast growth; and stem quality.

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