



### 大麻茎皮出麻率早期非破坏性预测技术研究

刘飞虎<sup>1</sup>, 郭鸿彦<sup>2</sup>, 邓纲<sup>1</sup>, 顿昊阳<sup>1</sup>, 李飞<sup>1</sup>, 杨明<sup>2</sup>

1. 云南大学植物改良与应用实验室, 云南昆明 650091;
2. 云南省农业科学院经济作物研究所, 云南昆明 650205

### A technique for nondestructive early prediction of fiber content in hemp bast

LIU Fei-hu<sup>1</sup>, GUO Hong-yan<sup>2</sup>, DENG Gang<sup>1</sup>, DUN Hao-yang<sup>1</sup>, LI Fei<sup>1</sup>, YANG Ming<sup>2</sup>

1. Laboratory of Plant Improvement and Utilization, Yunnan University, Kunming 650091, China;
2. Institute of Cash Crops, Yunnan Academy of Agricultural Sciences, Kunming 650205, China

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**摘要** 大麻(*Cannabis sativa* L.)是重要的“绿色纤维”之一.为了培育高纤维产量品种,需要建立茎皮出麻率的早期非破坏性评价技术以便在花前选留高出麻率材料作为杂交亲本或繁殖群体.以3个大麻品种为材料,研究不同部位茎皮与整株茎皮出麻率的关系和生长过程中茎皮出麻率的变化式样,发现大麻植株的出麻率高低在生长前期已经确定,现雄蕾前30d植株3/5高度处或现雄蕾前20d植株2/5高度处宽1/5直径、长20cm茎皮出麻率可以很好地反映整株出麻率.结果表明,选择高出麻率大麻植株可在生长早中期现雄蕾前采用非破坏性方法进行.

**关键词:** 大麻 杂交育种 茎皮出麻率 早期选择

**Abstract:** Industrial hemp (*Cannabis sativa* L.) is one of the most important "green fibers".To enhance breeding of hemp cultivars with increased fiber content,it is important to contrive a technique for nondestructive early prediction of fiber content in hemp bast to select elite individuals before flowering as parents of hybridization or for seed multiplication of cultivars.This paper investigated the correlation of fiber content in bast of plant parts and whole plant and change pattern of bast fiber content along with plant growth in three hemp cultivars.The bast fiber content in hemp plants was determined in early growth period before staminate flowers development.Therefore,the fiber content in a piece of bast of 20cm long and 1/5 girth wide sampled at 3/5 plant height 30 days before, or 2/5 plant height 20 days before male buds emergence could well represent that of the whole plant.In conclusion, it is promising to select hemp plant of high bast fiber content in early-mid growth period before male buds emergence by using a nondestructive method.

**Key words:**

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通讯作者: 杨明(1966-),男,云南人,副研究员,主要从事大麻育种与栽培研究,E-mail: ymhemp@163.com.

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电话：0871-5033829(传真) 5031498 5031662 E-mail: yndxxb@ynu.edu.cn yndxxb@163.com