

### 苜蓿形态学性状与纤维含量的相关性分析

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#### 摘要:

通过田间试验及纤维含量测定, 研究苜蓿Medicago sativa主茎长、节间数、节间长等形态学性状与其纤维含量的关系, 为在田间选择低纤维苜蓿单株提供有效地优势性状。试验结果表明: 苜蓿品种(系)间, 各形态学性状、中性洗涤纤维(NDF)和酸性洗涤纤维(ADF)都具有显著性差异( $P < 0.05$ ), 其性状变异系数依次为节间长(29.91%) > 主枝侧枝数(22.45%) > 主枝茎粗(20.82%) > 分枝数(19.76%) > 节间数(12.57%) > 主茎长(8.87%) > ADF(4.18%) > NDF(3.24%), 各形态学性状与NDF和ADF相关性分析表明, 主茎长与NDF和ADF均呈显著的正相关, 主枝侧枝数与ADF也呈显著正相关。其余形态学性状与NDF和ADF不存在显著相关性。

关键词: 形态学性状; NDF; ADF; 相关性分析

### Correlation analysis between morphological characters and fiber content of alfalfa

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#### Abstract:

The relationship between morphological characters (caulis length, internode number and internode length) and fiber content (NDF and ADF) of alfalfa was studied for breeding purpose. The results indicated that the differences of morphological characters, NDF and ADF contents among varieties were significant ( $P < 0.05$ ). The coefficients of variation were internode length (29.91%) > number of caulis and lateral branch (22.45%) > caulis diameter (20.82%) > number of lateral branch (19.76%) > number of internode (12.57%) > caulis length (8.87%) > ADF content (4.18%) > NDF content (3.24%). The caulis length positively correlated with NDF and ADF contents. Number of caulis and lateral branch positively correlated with ADF content. The rest characters did not show significant relationships with ADF and NDF contents.

Keywords: morphological character NDF ADF correlation analysis

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