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育种与栽培

耗散结构理论与矮败小麦高效育种技术体系

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摘要：

在介绍耗散结构理论并以此为依据分析了矮败小麦育种体系的耗散结构特征的基础上，提出了提高矮败小麦高效育种效率的途径：科学构建原始群保证系统远离平衡态；引入新种质，保持体系的开放性；保证有益基因的引入，增加负熵流是群体改良的关键。最后从育种规划学角度提出建议：矮败小麦轮回选择育种技术的深化和组装；矮败小麦轮轮回选择技术的区域布局与推广。

关键词： 耗散结构 小麦 矮败小麦 轮回选择 育种技术

Dissipative Structure Theory and High Efficiency Breeding Technological |System of Dwarf-Male-Sterile Wheat

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Abstract:

After introducing the dissipative structure nological system of Dwarf-Male-Sterile wheat based theory and analyzing high efficiency breeding techon the dissipative structure theory, a new plan was put forward to increasing efficiency of wheat breeding technological system of Dwarf-Male-Sterile in thispaper：Scientifically designing basic population, introducing new germplsm and gene, opening breeding system, increasing positive entropy of system. Fiinally, from the view of wheat breeding, the way of deep- ening and assemblling recurrent selection breeding technological system of Dwarf-Male-Sterile wheat and its distribution and popularization were discussed.

Keywords: dissipative structure dissipative structure theory dwarf-male-sterile wheat;recurrent selection breeding technology

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