

**DEVELOPMENT OF «BIODIVERSITY OF STRAINS OF THE PHYTOPATHOGENIC FUNGUS
PYRICULARIA ORYZAE CAV. FOR RICE-GROWING FARMS IN THE SOUTH OF RUSSIA»
DATABASE**

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The presented database contains a set of information about the phytopathogenic fungus biodiversity and samples of *Pyricularia oryzae* Cav. isolated from herbarium materials with signs of the disease, collected from rice agrophytocenoses in rice-growing zones of southern Russia. The database can be used to analyze and monitor the populations and pathotypes of the blast rice disease in the rice-growing regions of southern Russia. It consists of five interconnected tables (relations), containing coded information about individual features or properties of objects related to the process of monitoring the phenotypic and genotypic properties of rice blast strains common in southern Russia.

The database allows not only to store and organize the information, but also to quickly operate with it - create various queries, generate reports in a convenient form and at the same time avoid entering duplicate values. The presented database can be used by phytopathologists and breeders for creation and territorial distribution of rice varieties resistant to the pathogen, by research institutions for studying the structure of blast rice pathogen populations, as well as by university professors for giving lectures on the population biology of fungi.

Keywords: blast rice disease, pathogen strains, biodiversity, monitoring, phenotypic and genotypic properties, *Pyricularia oryzae* Cav.