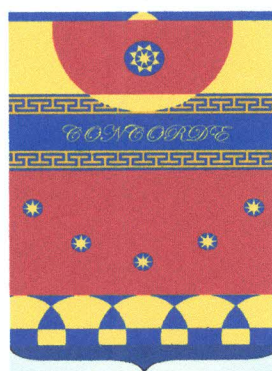


Alybayeva R.A.

**Genotypic Specificity of Wheat Resistance
to Heavy Metals**



Editions du JIPTO

Alybayeva R.A.
Genotypic Specificity of Wheat Resistance to Heavy Metals
Editions du JIPTO 2018. -160 p.

In the monograph the current state of knowledge about the physiological and biochemical features of the action of heavy metals on plants and mechanisms of metal resistance of plants are analyzed. The paper presents data from the literature of the far and near abroad and the results of our own studies on the identification of plants with high metal resistance. The authors proposed methodological approaches to the identification of tolerant genotypes and practical recommendations for the specific use of research results.

The monograph is intended for research staff dealing with the problem of environmental contamination with heavy metals, as well as for teachers, post-graduate students and students studying in the specialty "Ecology", "Biotechnology", "Biology".

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ABBREVIATIONS

ATP - adenosine triphosphate	
ATPase-adenosine triphosphatase	
BSAU - Bashkir State Agrarian University	
EKARI - East Kazakhstan Agricultural Research Institute	
DNA - deoxyribonucleic acid	
CBA - coefficient of biological accumulation	
cDNA - complementary DNA	
CECR - cation exchange capacity of roots	
KIA - Kazakh Institute of Agriculture	
NAD - nicotinamide dinucleotide phosphate	
MPC - maximum permissible concentration	
RNA - ribonucleic acid	
mRNA - matrix ribonucleic acid	
RuBisCO - Ribulose-Bisphosphate-Carboxylase/Oxygenase	
SOD - superoxide dismutase	
CIMMYT - International Maize and Wheat Improvement Center	
PS I - photosystem I	
PS II - photosystem II	
GSH - glutathione	

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