

CONTENTS

GENETICS AND BREEDING

Sudnikova V.P., Zelenava Yu.V., Gusev I.V. et al. New sources and donors with high potential for complex resistance to especially dangerous diseases for wheat breeding	3
Filyushin M.A., Anisimova O.K., Dzots E.A. et al. Relationship between the response of tomato plants to salt stress and the features of regulation of phenolic compounds biosynthesis	21
Sabaghnia N., Janmohammadi M., Nouraein M. Visual analysis of accession by trait interaction structure of agro-morphological traits of safflower (<i>Carthamus tinctorius</i> L.) using accession by trait (AT) biplot model	33
Zolotilov V.A., Nevkrytaya N.V., Zolotilova O.M. et al. The results of the essential-oil-bearing rose multi-year studies in the Crimea submountain region	48

INNOVATIVE TECHNOLOGIES

Arkhipov M.V., Priyatkin N.S., Musaev F.B. et al. Advanced capabilities of non-invasive assessment of seed quality and growth potential on the example of garden spinach (<i>Spinacia oleracea</i> L.)	60
Vorobyov N.I. The neural network ranking of agro-technologies by indices of soil microbiological activity and soil fertility: new possibilities of statistical analysis	70

MICROBIOLOGY, METAGENOMICS

Orlova O.V., Gladkov G.V., Zverev A.O. et al. Dynamics of the pro- and eukaryotic microbiome of straw during its destruction under surface application	82
Lisina T.O., Zverev A.O., Gladkov G.V. et al. Metagenomic analysis of pro- and eukaryotic components of microbiota of biologically active preparation BAGS	96

TECHNICAL CROPS AND SEQUESTRATION

Kamalova A.R., Danilova N.V., Kuryntseva P.A. et al. Technical hemp <i>Cannabis sativa</i> L. growth and functional diversity of soil microbiota in a model cultivation under elevated air temperatures	110
Kapustyanchik S.Yu., Danilova A.A. Cultivation of <i>Miscanthus sacchariflorus</i> in Siberia: application of nitrogen fertilizers	125

PLANT PATHOLOGY

Orina A.S., Gavrilova O.P., Gagkaeva T.Yu. et al. Physiological and biochemical characters of laboratory induced <i>Fusarium</i> mutants resistant to fludioxonil	138
Rozentsvet O.A., Bogdanova E.S., Nesterov V.N. et al. Structural and functional changes in potato leaves when damaged by potato virus M and fungus <i>Alternaria solani</i>	153
Zeyruk V.N., Bogoslovskay O.A., Vasilyeva S.V. et al. Effectiveness of using microelements' nanoparticles to protect potato (<i>Solanum tuberosum</i> L.) from fungal diseases	165