



BOOK OF ABSTRACTS

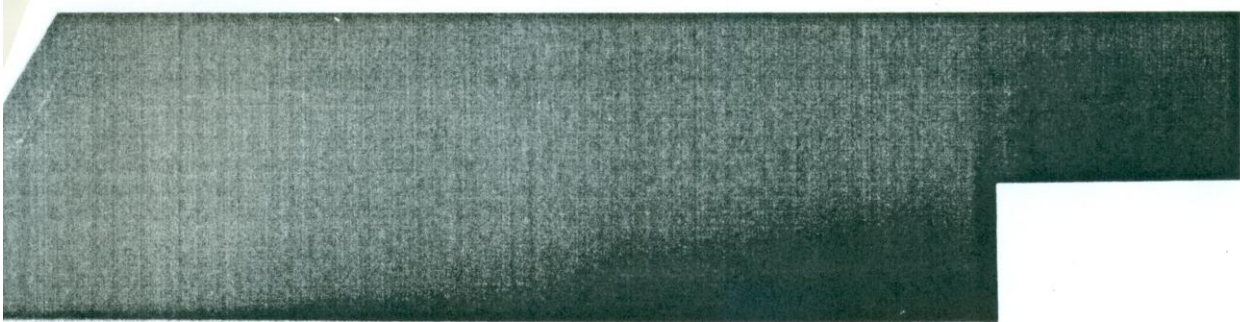
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THE IMPACT OF DIFFERENT TECHNOLOGIES OF PRODUCTION OF RED WINES ON THE ORGANOLEPTIC SCORE IN THE POPULATION OF YOUNG WINEMAKERS	
Josip MIŠIĆ, Brankica SVITLIĆA, Luka MESIĆ, Marina BRBLIĆ	103
MORPHOGENETIC FEATURES OF UNIVERSITY LEGUMES COLLECTION	
Zaure AYTAŠEVA, S. BAISEYITOVA, B.A. ŽHUMABAYEVA, E. DJANGALINA, Zh. URAZOVA, Ch. BYKOVA	104
EXAMINATION OF SOME DUTCH RED SKIN POTATO VARIETIES IN DIFFERENT AGRO-ECOLOGICAL CONDITIONS OF MONTENEGRO	
Zoran JOVOVIĆ, Ana VELIMIROVIĆ, Vesna MILIĆ, Milana SIJU	105
HONEY PLANTS OF FOREST LANDS IN THE NORTH-WEST RUSSIA	
A.V GRIZKIN, N.V. BELYEVA, Marko GUTALJ, N.V KOVALEV, Thi Thu Ha NGUEN	106
STUDY FOR DETERMINATION OF CLIMATIC SIMILARITIES TO DIFFERENT AGRO-ECOLOGICAL ZONES OF THE ALBANIA TERRITORY	
Albert KOPALI, Velesin PEÇULI, Zydi TEQJA, Arben BOÇARI	107
SAGE IN ALBANIA	
Qatip DODA, Nikollaq BARDHI, Gjoshe STEVKOV, Nefruz CELIKU, Dilaman NELAJ, Bujar ZEKA	108
PROPAGATION SAGE (<i>SALVIA OFFICINALIS</i> L.) AND ROSEMARY (<i>ROSMARINUS OFFICINALIS</i> L.) WITH GREEN CUTTINGS	
Nada PARADIKOVIĆ, Svjetlana ZELJKOVIĆ, Monika TKALEC, Irma DERVIĆ, Milica MARIĆ	109
TOTAL AND ORGANIC PHOSPHORUS STATUS IN SOILS OF EASTERN CROATIA	
Brigita POPOVIĆ, Zdenko LONČARIĆ, Krunoslav KARALIĆ, Vladimir IVEŽIĆ	110
EFFECT OF SLOW-RELEASE NITROGEN FERTILIZERS ON MAIZE PLANTS GROWN ON NEW RECLAIMED SOIL	
Mohamed S. Awaad	111
REUSE OF TREATED WASTEWATER FOR CULTIVATION OF ROSES FOR DECORATION ONLY AND NOT FOR FOOD INDUSTRIES	
R. E. Abdelraouf, Sami, A. Metwally, H.M. Mehana	112
INVESTIGATION THE EFFECTS OF BIOFERTILIZERS ON VEGETATIVE GROWTH PARAMETERS OF MEDICINAL PLANT OF TARRAGON (<i>ARTEMISIA DRACUNCULUS</i>)	

MORPHOGENETIC FEATURES OF UNIVERSITY LEGUMES COLLECTION

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Abstract

This study has been conducted to highlight the outputs of 2011-12 crop rotation under mountain and steppe (plain) zones in Almaty Region. Principal morphogenetic properties have been studied across the collection of common bean, *Phaseolus vulgaris* L. (Kazakhstani, American, Chinese, Czech, Polish, Russian, and Turkish collections) from different soil and climate areas under mountain and steppe zone conditions of Almaty Region. A number of useful genetic stocks for major economically valuable traits has been identified. Stock varietal resources have been studied on morphogenetic features. It has been shown that cv. "Luna" from Czech collection would be the earliest by ripening (80 days from the onset of ontogenesis to complete technical ripeness). Other varieties could reach the same state 10-12 days later. Using local "Aktatti" line the effect of new domestic bioorganomineral fertilizer has been shown on morphogenetic traits of common bean plants. Basic catalogue of stock common bean resources including nearly 40 parental common bean and related cultivars of diverse geographic origin has been compiled to be completed this year by 6 French cultivars of bush and liana common beans (Argus, Coco nain blanc precoce, Triomphe de Farey, Merveille de Venise, Mistica, and Phenomene manufactured by Truffaut and Vilmorin Ltd.). Investigation on growing domestic collection of cultivars and lines is also in progress.

Keywords: *common bean, catalogue of stock resources.*