AGRICULTURAL UNIVERSITY PLOVDIV



SCIENTIFIC WORKS

Volume LVIII, 2014

Academic Publishing House of the Agricultural University Plovdiv, 2014

EDITORIAL BOARD

Prof. Krasimir Ivanov, DSc – Editor-in-Chief Prof. Dimo Penkov, DSc Prof. Mariana Nakova, DSc Prof. Vili Harizanova, PhD Prof. Zhivko Geshev, PhD Assoc. Prof. Nurettin Tahsin, PhD Assos. Prof. Stoyan Filipov, PhD Assos. Prof. Elena Georgieva, PhD Assos. Prof. Dimitar Zyapkov, PhD Tania Tsvetkovska – Executive Editor

The Scientific Works are fully referred to in CAB Abstracts, EBSCO Publishing, AGRIS and partially – in other 30 databases of CAB International.

© Scientific Works of the Agricultural University, Plovdiv, 2014 © Academic Publishing House of the Agricultural University, Plovdiv, 2014

Agricultural University – Plovdiv

SCIENTIFIC WORKS Volume LVIII, 2014 r.

Editor-in-Chief Prof. Krasimir Ivanov, DSc

Executive Editor Tania Tsvetkovska

Editor of the English Abstracts Vania Simeonova

> Format 32/70x100 Quires 20,4

Academic Publishing House of the Agricultural University Plovdiv, 2014

http://nauchnitrudove.au-plovdiv.bg/

ISSN 1312-6318 (Print) ISSN 2367-5845 (Online)