

CONTENTS

BIOLOGY

BOTANY

Boris S. Kharitontsev

The use of the species *Juncus L.* from the south of the Tyumen region in clarification of the peculiarities of its phytostrome genesis7

Zoya M. Shayakhmetova, Ekaterina M. Shkaraba

Epiphytic lichens of forest species in the Perm region18

Tatyana V. Sviridenko, Boris F. Sviridenko, Olga E. Tokar', Andrey N. Efremov

Distribution, ecology and coenotic value of *Chara vulgaris L.* emend. Wallr. (Charophyta) in the West Siberian Plain ...27

Maria N. Kazantseva

The influence of ground fires on the pine forests of the lower Ishim38

Alexander S. Mochalov, Igor V. Kuzmin

Dryopteris × uliginosa (A. Br. ex Döll) Kuntze ex Druce — новый гибрид для флоры Тюменской области46

ZOOLOGY

Oleg V. Kozlov

The invertebrate faunistic complexes of polytypic brackish lakes in the forest-steppe zone of the South-Western part of the West Siberian plain51

Tatyana V. Azyavchikova

Species composition and distribution of the butterfly family Nymphalidae on the territory of the south-east of Belarus60

Tatyana A. Khlyzova, Stanislav V. Latkin

The flight time of different types of bloodsucking mosquitoes in the south of the Tyumen region68

Raisa P. Pavlova, Olga A. Fedorova

Confinement of bloodsucking midges (Dipter and Simuliidae) to various biotopes76

Mikhail A. Levchenko, Elena A. Silivanova, Dmitry N. Kyrov

Insecticidal impact of the mixture of fipronil and fir oil on adult musca domestica81

Sergey N. Gashev, Anastasia A. Tomishina

Fauna and ecology of bats in the Middle Zauralye87

MEDICINE

REGULATION OF PHYSIOLOGICAL FUNCTIONS

Yuri M. Zakharov, Igor Yu. Melnikov, Alexander G. Rassokhin

Adaptational characteristics of erythron system during heat exposure95

Alexey V. Belkin

Fluorescent spectral blood analysis of women with breast cancer and its integration into the rheological properties of blood108

Andrey V. Elifanov, Olga N. Lepunova

The level of gonadal and gonadotropic hormones in some forms of female endocrine infertility114

Sergey L. Sashenkov, Larisa V. Alacheva

Reactivity of peripheral erythron children with inflammatory respiratory system123

Vladimir S. Solovyev, Svetlana V. Solovyova, Tatyana N. Tsertsek, Elina M. Bakieva, Natalia V. Trusevich

Active orthostatic responses in healthy persons and AH and COPD patients in the Surgut132

Lada N. Smelysheva, Roman V. Sidorov, Julia A. Vasilyeva Maria M. Kiselev

The role of the parasympathetic and sympathetic nervous system in the regulation of gastric secretion at rest and during action of muscle activity141

Alla G. Naimushina, Svetlana V. Solovyova

Gender aspects of stress-induced hypertension150

ADAPTIVE PROPERTIES OF HUMAN AND ANIMALS**Nailya Z. Bakieva, Nadezhda N. Grebneva**

A complex research of modern children's «school maturity»157

Vladimir S. Solovyev, Irina A. Pogonysheva, Denis A. Pogonyshv

Parameters of the cardiorespiratory system of students engaged in sports and studying in the North165

Lyudmila I. Katashinskaya, Larisa V. Gubanova

The influence of smoking on the functional status of the respiratory system171

Elena S. Yagudina, Nikolay Ya. Prokopiev, Lyudmila P. Avramenko

ECG parameters of young male drug users178

Sergey A. Petrov, Natalia L. Mamaeva

Immune characteristics of tundra nenets depending on climatic and geographical living conditions187

Nataliya N. Pavlova

Confocal laser endomicroscopy as a new step in carcinoma preventoin194

Marina V. Nikolenko

Mechanisms of formation of the temporal organization of biological properties of *Candida albicans* in associative symbiosis203

Sergey L. Galyan, Tatiana Yu. Il'nykh, Danil Yu. Kadochnikov, Vladimir G. Popov

The influence of the isoflurane-based anesthesia components on oxidative metabolism of lipids, erythrocytes and blood plasma in cardiac surgery210

REVIEWS

Faunistics and ichthyopathology (bibliographic review)218