

# HYDROBIOLOGICAL JOURNAL

## VOLUME 51

### CONTENTS FOR 2015

#### Number 1

- S. A. Afanasyev*. Forming of Hydrobiota of the River Systems in the Territory of Ukraine in View of History of Hydrographic Net 3
- O. A. Timoshkin, N. A. Bondarenko, Ye. A. Volkova, I. V. Tomberg, V. S. Vishnyakov & V. V. Malnik*. Mass Development of Green Filamentous Algae of the Genera *Spirogyra* and *Stigeoclonium* (Chlorophyta) in the Littoral Zone of the Southern Part of Lake Baikal 13
- A. V. Parkhomenko & A. S. Kukushkin*. Assessment of Flux of Particulate Organic Phosphorus from the Photosynthesis Zone of the Deep-Water Section of the Black Sea 24
- V. I. Yurishinets, T. S. Rybka & N. V. Zaichenko*. Taxonomic Diversity and Complexity of Zooplankton Communities in Water Bodies of Various Types 36
- N. I. Kirpenko, O. M. Usenko & T. O. Musiy*. Variability of the Biochemical Composition of Algae (a Review) 49
- O. I. Bodnar, G. B. Vinyarskaya, G. V. Stanislavchuk & V. V. Grubinko*. Peculiarities of Selenium Accumulation and Its Biological Role in Algae (a Review) 63
- V. A. Toptikov, V. M. Tots'kiy, T. G. Alekseyeva & O. O. Kovtun*. Peculiarities of Proteinase Activity in Digestive Tract of the Veined Rapa Whelk (*Rapana venosa*) from the North-Western Section of the Black Sea 79
- M. V. Prychepa & O. S. Potrokhov*. Physiological and Biochemical Status of Fishes of the Fam. Percidae in Winter 90
- V. V. Belyayev, Ye. N. Volkova, A. A. Parkhomenko, S. P. Prishlyak & S. V. Kurganskiy*. Dynamics of the Formation of Irradiation Dose in Freshwater Fish after Single Influx of  $^{90}\text{Sr}$  and  $^{137}\text{Cs}$  into a Water Body 98

#### Number 2

- A. V. Lyashenko & Ye. Ye. Zorina-Sakharova*. Macroinvertebrates of the Marine Edge and Fore-delta of the Kiliya Branch of the Danube River Delta 3

<i>I. A. Govorin</i> . Frequency of Occurrence and Morphometric Characteristics of Mussels <i>Mytilus galloprovincialis</i> with Non-pigmented Tissular Structures near the Odessa Coast of the Black Sea	21
<i>V. M. Klymiuk &amp; N. N. Lialiuk</i> . Quantitative Characteristics of Phytoplankton of the Sloviyans'k Saline Lakes	30
<i>T. N. Novoselova &amp; A. A. Protasov</i> . Phytoplankton of Cooling Ponds of Techno-Ecosystems of Nuclear and Thermal Power Stations (a Review)	37
<i>B. Z. Liavrin, Yu. I. Senyk, V. O. Khomenchuk &amp; V. Z. Kurant</i> . Content of Non-polar Lipids in Liver of Fishes of Small Rivers of the Western Podillya (Ukraine)	53
<i>N. A. Krasutskaya &amp; V. I. Yuryshinets</i> . Effect of Trematoda Infestation on Total Protein Content and Succinate Dehydrogenase Activity in Hepatopancreas of the Snail <i>Viviparus viviparus</i> L. under Different Temperature	60
<i>O. P. Kholod'ko</i> . Bottom Sediments of the Kyiv Reservoir. Forming, State and Properties	67
<i>P. N. Linnik &amp; Ya. S. Ivanechko</i> . Dissolved Protein-Like Substances in Surface Water Bodies of Various Types	85

### Number 3

<i>Yu. P. Zaytsev</i> . On Contour Structure of Biosphere	3
<i>Yu. V. Pligin &amp; S. V. Kruzhilina</i> . Characteristics of Macrozoobenthos Cenoses of the Kremenchug Reservoir of the Dnieper River as the Basis of the Assessment of Its Potential Biological Resource	
<i>P. D. Klochenko, T. F. Shevchenko &amp; G. V. Kharchenko</i> . Structural and Functional Organization of Phytoplankton in the Thickets and in the Sections Free of Vegetation in the Lakes of Kiev	25
<i>F. B. Shkundina &amp; D. I. Sakhabutdinova</i> . Phyto- and Zooplankton of the Lower Reaches of the Belaya River (Russian Federation, Republic of Bashkortostan) as the Indices of Their Ecological State	45
<i>A. V. Borovkov &amp; I. N. Gudvilovich</i> . Intensive Cultivation of <i>Dunaliella salina</i> for Production of Biomass with Elevated $\beta$ -carotene Content. Communication 1. Effect of Cultivation Factors	61
<i>V. M. Yakushin, A. S. Potrokhov, O. G. Zinkovskiy, G. M. Romanishin, K. P. Kalenichenko &amp; M. I. Linchuk</i> . Bacteria Numbers and Proteolytic Activity in the Water of the Lake Located within the Urban Territory	69
<i>Ye. A. Pasichna, L. O. Gorbatiuk, O. M. Arsan, M. A. Savluchinskaya, I. G. Kuklia, N. A. Platonov, S. P. Burmistrenko</i> . Effect of Phosphorus Compounds on Aquatic Plants (a Review)	77

<i>V. I. Pichura, Yu. V. Pilipenko, F. N. Lisetskiy &amp; O. E. Dovbysh. Forecasting of Hydrochemical Regime of the Lower Dnieper Section using Neurotechnologies</i>	87
---	----

#### Number 4

<i>Ye. B. Mel'nikova &amp; N. V. Liamina. Vertical Distribution of Bioluminescence Field Intensity in Water of the Black Sea in Autumn</i>	3
<i>O. Yu. Derevenskaya, N. M. Mingazova &amp; V. V. Yakovlev. Zooplankton Community of a Small River under Abnormal Climatic Conditions (on the Example of the Kazanka River, Russian Federation)</i>	12
<i>V. D. Romanenko &amp; Yu. G. Krot. Biotechnological Researches in the Institute of Hydrobiology of National Academy of Sciences of Ukraine</i>	21
<i>A. V. Borovkov &amp; I. N. Gudvilovich. Intensive Cultivation of <i>Dunaliella salina</i> as Way of Obtaining of Biomass with Elevated Content of <math>\beta</math>-carotene. Communication 2. Optimization of Cultivation Regime</i>	31
<i>N. I. Kirpenko, O. M. Usenko &amp; T. O. Musiy. Biochemical Composition of Green Algae at Different Stages of Their Growth</i>	39
<i>I. N. Nezbitskaya &amp; A. V. Kureyshevich. Changes in the Content of Photosynthetic Pigments in Representatives of Chlorophyta and Cyanoprokaryota at a High Temperature</i>	46
<i>V. D. Romanenko, V. I. Yuryshynets', O. S. Potrokhov &amp; O. G. Zin'kovskiy. Peculiarities of Physiological-biochemical Interrelations in Symbiotic Communities of Freshwater Fishes under the Impact of Inorganic Nitrogen Compounds</i>	57
<i>D. V. Lukashov. Accumulation of Heavy Metals by Pond Snail <i>Lymnaea stagnalis</i> as Index of Pollution of Small Water Bodies</i>	67
<i>N. S. Chelyadina, N. V. Pospelova &amp; Yu. P. Kopytov. Distribution of Copper in the Tissues of Males and Females of <i>Mytilus galloprovincialis</i></i>	74
<i>P. N. Linnik &amp; I. I. Ignatenko. Molybdenum in Natural Surface Waters: Content and Forms of Occurrence (a Review)</i>	80
<i>V. I. Lavryk &amp; A. S. Glazok. Mathematical Simulation of Water 'Bloom' Effect on Oxygen Regime</i>	104

#### Number 5

<i>V. D. Romanenko, L. I. Kalinina &amp; T. F. Shevchenko. Main Scientific Directions and Results of Activities of the "Gidrobiologicheskij Zhurnal" for the Last 50 Years</i>	3
--	---

<i>Yu. M. Zvereva, I. B. Mizandronev, Ye. P. Zaytseva &amp; O. A. Timoshkin. Respiration of Aquatic Oligochaetes (Annelida, Oligochaeta) and Peculiarities of Oxygen Uptake by Endemic Enchytraeidae of Lake Baikal</i>	14
<i>V. F. Kulesh. Food Consumption and Assimilation in Decapoda</i>	25
<i>S. A. Afanasyev, V. M. Baychorov, Yu. G. Giginyak, Ye. N. Letitskaya, A. Ye. Usov, O. V. Solonina, Yu. P. Fedotov, V. Yu. Yavorskiy &amp; T. V. Oberemchuk. Hydrobiological Characteristics and Assessment of the Ecological State of Transboundary Watercourses Located Between the Sozh and Desna Rivers</i>	39
<i>I. L. Sukhodol'skaya, O. V. Manturova &amp; I. B. Griuk. Phytoplankton of Small Rivers of the Rivne Region (Ukraine) and Relation of its Quantitative Parameters with Nutrients Content</i>	50
<i>A. V. Makrushin, V. P. Beliakov, I. D. Chinariova, A. S. Vasilyev, Ye. B. Fefilov &amp; O. N. Kononova. Pathomorphological Examination of Hydrobionts</i>	62
<i>R. A. Novitskiy, D. S. Khrystenko &amp; A. A. Kotovskaya. Various Programs of Development of <i>Pseudorasbora parva</i> (Cypriniformes: Cyprinidae) in Lotic and Lentic Ecosystems</i>	70
<i>A. A. Protasov, G. A. Guryanova, A. A. Silayeva &amp; N. N. Laskovenko. Zooperiphyton Dynamics on the Experimental Substrata in the Near-Dam Section of the Kiev Reservoir</i>	80
<i>G. I. Fal'fushynska, L. L. Gnatyshyna &amp; O. B. Stoliar. Status of Markers of the Aquatic Environment Toxicity in Bivalve Mollusk <i>Unio tumidus</i> under impact of Common Municipal Pollutants</i>	91
<i>V. I. Yurishinets &amp; N. V. Zaichenko. Comparative Analysis of the Parasite Fauna of <i>Pseudorasbora parva</i> (Cyprinidae) in the Native and Non-Native Areas of Its Distribution</i>	101

## Number 6

<i>S. S. Barinova, P. D. Klochenko &amp; Ye. P. Belous. Algae as Indicators of the Ecological State of Water Bodies: Methods and Prospects</i>	3
<i>A. N. Solonenko. Composition of Organic Matters and Enzymatic Activity of Peloids of Hyperhaline Water Bodies of the North-Western Coast of the Sea of Azov (Ukraine)</i>	22
<i>O. B. Gurbik, O. V. Didenko &amp; I. Yu. Buzevych. Peculiarities of Feeding of Pike (<i>Esox lucius</i>) in the Kaniv Reservoir in Spring</i>	28
<i>T. B. Zaitseva, B. L. Milman, N.V. Lugovkina, Ye. N. Chernova, Ya. V. Russkikh, S. M. Satayeva &amp; N. G. Medvedeva. Effect of Octyl- and Nonylphenols on Growth Photosynthetic Activity and Toxins' Forming of Cyanobacteria <i>Planktothrix agardhii</i></i>	36

<i>T. V. Andrusyshyn, K. V. Kostiuk &amp; V. V. Grubinko. Structural Modifications in Cell Membranes of <i>Lemna minor</i> from the Zbruch River (Ukraine) as Indicator of Pollution by Heavy Metals</i>	48
<i>A. D. Kulikova, T. I. Anreyenko &amp; A. A. Soldatov. Activity of Aldolase in Tissues of <i>Mytilus galloprovincialis</i> with Different Shells Color</i>	53
<i>V. P. Pystovgar, O. S. Potrokhov, O. G. Zin'kovskiy &amp; Yu. M. Khudiyash. Peculiarities of Morphological and Biochemical Parameters of the Round Goby <i>Neogobius melanostomus</i> from the Dnieper-Bug Liman and the Dnieper River</i>	60
<i>S. P. Prishlyak, V. V. Belyayev, Ye. N. Volkova, A. A. Parkhomenko &amp; A.L. Savitskiy. Regularities of <sup>137</sup>Cs Accumulation in the Above the Ground and Underground Phytomass of Helophytes</i>	68
<i>V. M. Timchenko, Ye. I. Korzhov, O. A. Guliayeva &amp; S. V. Batog. Dynamics of Environmentally Significant Elements of Hydrological Regime of the Lower Dnieper Section</i>	75
<i>P. N. Linnik. Arsenic in Natural Waters: Forms of Occurrence, Peculiarities of Migration, and Toxicity (a Review)</i>	84
Contents for 2015	107