

SCIENTIFIC PROJECTS

DIRECTIONAL FUNDAMENTAL RESEARCHES

“Mechanisms of functioning of freshwater ecosystems and adaptation of hydrobionts on the effects of abiotic and biotic factors in the context of global climate change” (2012-2016) (Head: Romanenko V. D.).

DIRECTIONAL APPLIED RESEARCHES

«The research of the status of ecosystems and water quality in delta areas of rivers, estuaries, and other water objects of the Azov-Black Sea region and the development of practical recommendations for the usage of their bioresource and recreational potential» (2011-2012) (Head: Romanenko V.D.).

«The monitoring of biodiversity of hydrobionts in delta areas of rivers, estuaries and gulfs as the basis for systematic usage of biological resources of transitional waters of the Azov-Black Sea basin» (2013-2015) (Head: Romanenko V.D.).

«The research of the quantity of allowable discharges of radionuclides by enterprises of the nuclear fuel cycle in reservoirs of various trophic status, taking into account the rate of purification of water masses from artificial radionuclides» (2013-2015) (Head: Volkova O.M.).

«The research, assessment and development of measures to preserve the biotic and landscape diversity of mountain rivers, based on the European Union approaches to the establishment of river basin management plans» (2015-2019) (Head: Afanasiev S.O.).

JOINT INTERNATIONAL PROJECTS

«The investigation of "blooming" of water causing toxic species of algae in fresh water (Ukraine and East Siberia) with the application of microscopic, molecular-biological and analytical methods» (NASU–RFFR, 2009-2010) (Head: Lischuk A.V.).

«The development of principles of complex hydrobiological monitoring of techno-ecosystems of power stations» (Ukraine-Moldova, 2013) (Head: Protasov O.O.)

«The structure, biology and phylogeny of amoeba isolated from bentonite clay of Mesozoic sediments» (NASU–RFFR, 2014-2015) (Head: Yuryshynets V.I.).

ACADEMIC GRANTS FOR YOUNG SCIENTISTS

«The diversity and complexity of zooplankton communities and their symbionts in various types of water objects» (2011-2012) (Head: Rybka T.S.).

«The water exchange as a factor in the formation of the present state of the Sasyk-reservoir ecosystem (on example of phytoplankton)» (2013-2014) (Head: Ivanova N.O.)

FUNDAMENTAL THEMATIC

«Biotic flows of matter and energy as a basis for the functioning of river ecosystems» (2011-2015) (Head: Afanasiev S.O.).

«Sanitary and hydrobiological state of the water objects of urbanized territories» (2011-2015) (Head: Yuryshynets V.I.).

«Biodiversity and bioresources potential of ecosystems of plain reservoirs in conditions of global climate change and development of biological invasion» (2011-2015) (Head: Yakushyn V.M.).

«Physiological-biochemical and cytogenetic mechanisms of adaptation of fish and invertebrates to adverse changes in environmental factors» (2013-2017) (Head: Romanenko V.D.).

«The peculiarities of functioning and restoration of freshwater ecosystems in conditions of complex influence of nuclear power plants» (2011-2015) (Head: Gudkov D.I.).

«Ecological successions of hydrobiocenoses in the Danube Delta» (2011-2015) (Head: Lyashenko A.V.).

APPLIED THEMATIC

«The peculiarities of accumulation, transformation and migration of phosphorus-containing substances in the components of the aquatic ecosystem and their influence on benthic and planktonic organisms» (2013-2015) (Head: Arsan O.M.)

«The peculiarities of the influence of abiotic factors on the structural and functional characteristics of freshwater algae and their ability to produce biologically valuable compounds» (2013-2015) (Head: Klochenko P.D.)

«The peculiarities of the formation of the hydrochemical regime of water objects of different types under the extreme action of abiotic environmental factors» (2013-2015) (Head: Lynnyk P.M.).

THE EXAMPLES OF SCIENTIFIC RESEARCHES FOR CUSTOMERS

Foreign Companies

«The determination of histological, hematological and genetic effects of chronic effects of ionizing radiation on fish and invertebrates in the water objects of the Chernobyl exclusion zone» (2014-2015) Head: Gudkov D.I.

«The estimation of the impact of the construction and operation of the small hydroelectric power station Daryali (Stepantsmina, Georgia) on the ecological status of the Terga River and the development of recommendations for the establishment of a fish crossing» (2015) Head: Afanasiev S.O.

Ukrainian Companies

«Hydrobiological monitoring of freshwater ecosystems during the restoration and operation of the Danube-Black Sea Channel» (2008-2009) Head: Afanasiev S.O.

«Hydrobiological monitoring of the water objects of the Southern Bug in the area of influence of Tashlyk Hydroaccumulating Power Plant» (2008-2009) Head: Afanasiev S.O.

«The estimation of the influence of construction and operation of small hydroelectric power stations on the ichthyofauna of mountain rivers» (2012...). Head: Afanasiev S.O.

«Scientific support of fish introduction and control of the effectiveness of ichthyomelioration of the watercourse "Charonda"» (2013) Head: Afanasiev S.O.

«The investigation of hydrobiological processes in the ecosystem of the Khmelnytsky NPP cooling water pond, which influence the formation of biological problems in the operation of heat exchange and other equipment, development of measures for their limitation» (2008) Head: Protasov O.O.

«The development of Materials for Environmental Impact Assessment (EIA) of power units No.3,4 of Khmelnytsky NPP» (2008-2009) Head: Protasov O.O.

«The estimation of sedimentation regime and bottom sediments of the Kyiv reservoir» (2010) Head: Timchenko V.M.

«The state of the ecosystem of the Kaniv reservoir in the area of potential impact of the Kaniv HPP (based on materials 2008-2013)» (2013-2014) Head: Timchenko V.M.

«The forecast of the influence of the construction and operation of Kakhovka HPP-2 on the water ecosystems of the Kakhovka reservoir and the lower reaches of the Dnieper» (2014) Head: Timchenko V.M.

«To investigate the effect of agricultural preparations on aquatic organisms of different trophic levels» (2008-2017) Head: Krot Yu.G.

«To carry out an assessment of the impact of the return water of the Kraft Foods Ukraine company using biotesting methods» (2008-2015) Head: Krot Yu.G.

«The assessment of the impact of the return water of the company "Chips Lux" and "Coca-Cola Beverages Ukraine LTD" with the help of biotesting methods» (2012) Head: Krot Yu.G.

«Development of the formulation of production of mixed fodders on the basis of by-products (shrot) of production of diesel biofuel from highly oilseed genotypes of *Camelina*» (2013). Head: Krot Yu.G.

«The application of "aquatic plants container bioplate" for refining and conditioning of waste water in the process of water treatment and reuse in the production of tomato paste» (2017). Head: Krot Yu.G.

«To develop methods for increasing of the productivity of polyculture cultivation of larvae of carp and herbivorous fish with larvae of pike perch and European catfish» (2009) Head: Potrokhov O.S.

«To determine the damage to the fisheries sector from the construction of berthing facilities» (2012) Head: Dolynskiy V.L.

«Basic principles and provisions of the possibility of installing fish protection equipment at the Ukrhydroenergo hydroelectric power stations» (2012-2014) Head: Dolynskiy V.L.

«The investigation of active and auxiliary ingredients of pharmaceutical compositions and solid dosage forms based on mass spectrometry» (2011) Head: Konovets I.M.

«The assessment of the current state and levels of radionuclide pollution of the main components of the biocenoses of the Chernobyl NPP cooling-pond, the forecast of changes and substantiation of recommendations for the regime of water level reduction during its decommissioning» (2012) Head: Gudkov D.I.

«Hydrobiological observations at decommissioning of the Chernobyl NPP cooling-pond» (2016) Head: Gudkov D.I.

«The establishing the possible cause of the agent and the source of the appearance of a specific taste in mineral water at all stages of preparation» (2008) Head: Maystrova N.V.

«The estimation of the current state and water quality of the adjacent reservoir of Dneprodzerzhinsky reservoir in the location of the planned water intake for technical and drinking water supply of industrial enterprises of Komsomolsk» (2013) Head: Scherbak V.I.