ФАКУЛЬТЕТ: Біологічний

**Faculty of Biology**

**Про нас / ABOUT US**

**· Вітальне слово декана / Welcome**

The Faculty of Biology prepares bachelors and masters in the following specialties: 014.05 – "Secondary education (Biology and human health)", 091 – “ Biology ”, 101 – “ Ecology”, and since 2022 - bachelors in the specialty 162 – «Biotechnology and bioengineering». The specialty "Biology" is provided by the following master's educational programs: Botany, Biochemistry, Biophysics, Genetics, Zoology, Microbiology, Human and Animal Physiology, Plant Physiology, Laboratory Diagnosis of Biological Systems, Biodiversity conservation. The faculty has a postgraduate course in "Biology" and "Ecology".

Graduates of the faculty can work in scientific, ecological, sanitary-epidemiological, agricultural, food and microbiological industries, also in fisheries, nature conservation and environmental protection, landscaping and park management, in laboratories of all medical and diagnostic education levels, both in Ukraine and abroad. Students undergo the internships at the Alpine Biological Hospital, Shatsk Biological and Geographical Hospital, the Botanical Garden of the University and also the internships in laboratories.

**· Історія / History**

The research in biology at Lviv University began at the end of 18th century, when the main subjects of research were the flora of Prykarpattia and adjacent territories, which became much more active in 19th century. Since that time the herbarium of the Faculty of Biology has had the collections of plants by Ostap Voloshchak, Oleksandr Zavadsky, Yosyp Lahovsky, Anthony Reman, and others since that time.

In 1852, the Department of Zoology separated from the Department of Botany. It has been headed by Benedict Dybowski since 1884, who founded a zoological museum. In 1852, Professor Hyacinth Lobazhevsky founded the Botanical Garden of Lviv University. At the end of XIX century the research in human and animal physiology, embryology, comparative anatomy, and anthropology began. In 1920-1940 famous biochemist Jakub Parnas worked at the university.

The Faculty of Biology was established in 1940 on the basis of the Faculty of Natural Sciences. During the postwar years, the corresponding member of the Academy of Sciences of Ukraine M. Popov, professors A. Lazarenko, K. Leutsky, P. Nikiforovsky, P. Yaroshenko, P. Litvinov, associate professors O. Hebgardt, F. Strautman etc have been sent to Lviv from other scientific centers of the country.

In 1940 the departments of plant morphology and taxonomy, plant anatomy and cytology, plant physiology, microbiology, biochemistry, general zoology, zoology and comparative anatomy, animal physiology, animal science, darvo were established. In 1945-1947 – the Department of plant physiology and biochemistry, in 1974 - the Department of Biophysics and Mathematical Methods in Biology, in 1976 - the Department of Genetics and Biotechnology, and in 2012 - the Department of Ecology were established within the framework of the faculty. It also must be mentioned that professors G. Koziy, V. Zdun, I. Shostakovska, B. Sukhomlinov, M. Derkach, G. Shavlovsky, S. Hrebinsky and others made a significant contribution to the development of the faculty.

**Адміністрація / Administration**

Dean's Office

Dean – PhD, Assoc. Prof. Ihor Khamar

Deputy Deans:

Assoc. Prof., Senior Research Fellow Vitalii Honcharenko

Assoc. Prof. Antonina Tarnovska

Assoc. Prof. Volodymyr Merlavskyi

Faculty Council:

Head of the Council – Assoc. Prof. Ihor Khamar

Deputy Chairman – prof. Andrii Babskyi

Secretary – Assoc. Prof. Mariia Dyka

Members of the Council:

professors –

Halyna Antoniak,

Svitlana Hnatush,

Volodymyr Manko,

Natalіia Sybirna,

Olha Terek,

Viktor Fedorenko,

Yosyf Tsaryk

associate professors –

Antonina Tarnovska, Halyna Hachkova, Vitalii Honcharenko, Oksana Ikkert, Myroslava Kobyletska, Zvenyslava Mamchur, Nataliia Holub, Taras Peretiatko, Andrii Prokopiv, Volodymyr Verlavskyi, Oksana Mamchur

Senior Research Fellow

Ostap Reshetylo

Students

Kylchytska Anzhelika

Hrytsan Tetiana

Lutsovych Diana

Muzyka Yana

**· Персонал / Staff**

**Dean's Office**

Ihor KHAMAR – Dean

Vitalii HONCHARENKO – Deputy Dean

Volodymyr MERLAVSKYI – Deputy Dean

Antonina TARNOVSKA – Deputy Dean

**Dean's Office Secretariat**

Oksana BOIARCHUK dispatcher

Khrysryna TROMSA dispatcher

Uliana SLIVINSKA secretary

**Department of Biophysics and Bioinformatics**

Andrii BABSKYI – Head

Marta BURA – Assoc. Prof.,

Nataliia HARASYM – Assoc. Prof.,

Anastasiia HENEHA ГЕНЕГА – Assoc. Prof.,

Mariia DYKA – Assoc. Prof.,

Vira OTCHYCH – Assoc. Prof.,

Antonina TARNOVSKA – Assoc. Prof.,

Yaryna SHALAI – Assoc. Prof.,

Nataliia BODNARCHUK – engineer of 1 category

Dariia DLUHOSH – senior laboratory assistant

M. POPOVYCH – graduate student

O. TYMOFIEIEV – graduate student

**Department of Biochemistry**

Nataliia SYBIRNA – Head

Iryna BRODIAK – Assoc. Prof.,

Halyna HACHKOVA – Assoc. Prof.,

Mariana LIUTA – Assoc. Prof.,

Mariia NAHALIEVSKA – Assoc. Prof.,

Mariia SABADASHKA – Assoc. Prof.,

Olena STASYK – Assoc. Prof.,

Volodymyra BURDA – engineer of 1 category

Nataliia PERMIAKOVA – senior laboratory assistant

Anna CHUHAI – senior laboratory assistant

Dariia HERTSYK – graduate student

**Department of Botany**

Vitalii HONCHARENKO – Head

Lidiia TASIENKEVYCH – professor

Anastasiia ODINTSOVA – Assoc. Prof.,

Andrii PROKOPIV – Assoc. Prof.,

Roksolana ANDREICHUK – assistant

Olha DYKA – assistant

Oksana ZHUK – assistant

**Department of Genetics and Biotechnology**

Viktor FEDORENKO – Head

Lidiia BODNAR – Assoc. Prof.,

Nataliia HOLUB – Assoc. Prof.,

Svitlana HORBULINSKA – Assoc. Prof.,

Nataliia MATVIITSIV – Assoc. Prof.,

Iryna OSTASH – Assoc. Prof.,

Yaroslava CHERNYK – Assoc. Prof.,

Bohdan OSTASH – Chief Research Fellow, professor (part-time)

Vasyl SYRVATKA – Research Fellow, assistant (part-time)

Oksana KOSHLA – Junior Research Fellow

Bohdan BILYK – engineer

Ivanna HAIBONIUK – graduate student

Borys DOLIA – graduate student

Kseniia-Oksana ZHUKROVSKA – graduate student

Yurii KUZHYK – graduate student

**Department of Ecology**

Zvenyslava MAMCHUR – Head

Halyna ANTONIAK – professor

Ihor KAPRUC – professor

Volodymyr KYIAK – professor (part-time)

Nataliia DZHURA

Oksana DUMYCH

Yurii DRACH – assistant

Halyna MUDRAK engineer of 2 categories, laboratory assistant (part-time)

Sopiia KHUNYK – laboratory assistant

Olha SHTYK – laboratory assistant

Olha ATORVIN – graduate student, engineer (part-time)

Iryna BORETSKA – graduate student

Zhanna KALYNYCH – graduate student

Marta LESIV – graduate student

Oleh MYTSAK – graduate student

Yurii PYLYPIV – graduate student

Iryna PODAN – graduate student

Oleksandr POLISHCHUK – graduate student

Serhii PRYTULA – graduate student

Oleh SAVCHAK – graduate student

Ivan STELMAKH – graduate student

**Department of Zoology**

Yosyf TSARYK – Head

Oksana HNATINA – Assoc. Prof.,

Ihor DYKYI – Assoc. Prof.,

Oleh IVANETS – Assoc. Prof.,

Kateryna NAZARUK – Assoc. Prof.,

Ostap RESHETYLO – Assoc. Prof.,

Ihor KHAMAR – associate professor (part-time)

Ihor SHYDLOVSKYI – Assoc. Prof.,

Iryna KOLTUN – assistant

Volodymy LIESNIK – assistant

Oksana SACHOK – engineer of 1 category

Iryna SKYRPAN – assistant

Iryna YAVORNYTSKA – assistant

Bohdan ANDRIISHYN – assistant (part-time)

Nataliia BALANDIUKH – assistant

Vadym ZHULENKO – graduate student

Ivan ZAHORODNYI – graduate student

Kateryna KREMPA – graduate student

Kateryna LESIV – graduate student

Mariia MARTSIV – graduate student

Sofiia PYTEL-HUTA – graduate student

Yurii CHAIKA – graduate student

**Department of Microbiology**

Svitlana HNATUSH – Head

Andrii SYBIRNYI – professor

Dariia FEDOROFYCH – professor

Andrii HALUSHKA – Assoc. Prof.,

Halyna ZVIR – Assoc. Prof.,

Yaryna KOLISNYK – Assoc. Prof.,

Olha MASLOVSKA – Assoc. Prof.,

Taras PERETIATKO – Assoc. Prof.,

Halyna YAVORSKA – Assoc. Prof.,

Oksana MOROZ – Chief Research Fellow

Solomiia KOMPLIKEVYCH – graduate student

Nataliia MENIV – graduate student

Hanna RIZUN – graduate student

**Department of Human and Animal Physiology**

Volodymyr MANKO – Head

Andrii BABSKYI – professor (part-time)

Ruslana ISKRA – professor

Solomiia BYCHKOVA – Assoc. Prof.,

Olha VELYKOPOLSKA – Assoc. Prof.,

Oksana IKKERT – Assoc. Prof.,

Tetiana KOROL – Assoc. Prof.,

Volodymyr MERLAVSKYI – Assoc. Prof.,

Roman OSTAPIV – Assoc. Prof.,

Bohdan MANKO МАНЬКО – Senior Research Fellow

Olha BILONOHA – Junior Research Fellow

Anastasiia ZUB – Junior Research Fellow

Halyna MAZUR – Junior Research Fellow

Nadiia TSYMBALIUK – Leading Specialist

Iryna HNATCHUK – engineer of 1 category

Oleksandra RUDA – engineer of 1 category

Marta MANKO – senior laboratory assistant

Iryna FEDAS – senior laboratory assistant

Bohdan MANKO – graduate student

**Department of Plant Physiology and Ecology**

Myroslava KOBYLETSKA – Head

Olha TEREK – professor

Volodymyr BARANOV – Assoc. Prof.,

Oksana VELYCHKO – Assoc. Prof.,

Iolanta MYKIIEVYCH – Assoc. Prof. (part-time)

Ostap PATSULA – Assoc. Prof.,

Nataliia ROMANIUK – Assoc. Prof. (part-time)

Liubov BUNIO – engineer of 1 category

Y. KAVULYCH engineer of 1 category

Oksana MAMCHUR – Assoc. Prof.,

Iryna PETROVYCH – engineer of 2 category

Liudmyla KARPINETS – senior laboratory assistant

Olha KACHMAR – graduate student

Olha SHEVCHUK – graduate student

**Vivarium**

M. ALEKSANDROV – Head

L. KHOMA – laboratory assistant

**Herbarium**

Tetiana KHMIL – Head

Mariia ROMANIV – Leading Specialist

Khrystyna SKRYPETS – engineer of 1 category

**Ecological and hydrobiological laboratory**

Vasylyna STRUS – Head

**Zoological Museum**

Ihor SHYDLOVSKYI – Head

Oksana HNATYNA – custodian of funds of the 1 category (part-time)

Mariana SENYK – custodian of funds of the 2 category

**Collection of cultures of microorganisms**

Oleksandr HROMYKO – Head

Oleksandra ARAVITSKA – engineer

Anna VASYLENKO – engineer

Ivan ROMAN – engineer

Stepan TISTECHOK – graduate student

**Interdisciplinary training laboratory of virtual methods in biology**

Lidiia KULYK – Head

Solomiia KOMPLIKEVYCH – engineer (part-time)

Nataliia KULISHKO – engineer

**Interdepartmental educational laboratory of mathematical methods in biology**

Olena SEMOCHKO – Head

**Interfaculty training laboratory of instrumental research methods**

Andrii HALUSHKA – Head (part-time)

Iryna KLYM – Leading Specialist

Oleksandr KULACHKOVSKYI – Leading Specialist

**Training laboratory of spectrophotometric research methods**

Nataliia YEFIMENKO – Head

Mariana LIUTA – engineer of 1 category (part-time)

Olena KANIUKA – engineer

Oleksandr KARMASH – engineer

**Educational and methodical laboratory for the study of biodiversity**

Mariia YAREMCHUK – Head

Iryna KOLRUN – engineer of 1 category (part-time)

Oksana CHAIKIVSKA – engineer of 1 category (part-time)

**· Кафедри / Departments**

1. Biophysics and Bioinformatics

2. Biochemistry

3. Genetics and Biotechnology

4. Microbiology

5. Botany

6. Zoology

7. Human and Animal Physiology

8. Plant Physiology and Ecology

9. Ecology

**1. Department of Biophysics and Bioinformatics**

The Department of Biophysics and Mathematical Methods in Biology was established in 1974 by famous biophysicist, prof. M. Derkach. In 2005 prof. D. Sanagursky renamed and reorganized the department under the name of biophysics and bioinformatics. Since 2016 the department is headed by Prof. A. Babsky. The main research interests of the department are: Transmembrane bioelectrogenesis: modifying effects on it, structural and functional analysis and models; Biophysics of embryonic systems and physicochemical factors` effects on them; Mathematical modeling of biological processes; Cellular bioenergy. The department prepares Bachelors and Masters - biophysicists, providing training in the following courses: biophysics, general cytology, histology, mathematical methods in biology, basics of computer science

Methodical materials:

1. Галан М.Б. Біофізика:методичні вказівки і контрольні завдання для студентів напряму підготовки 6.040102 – біологія заочної форми навчання / М.Б. Галан, М.В. Бура. – Львів: Львівський національний університет імені Івана Франка, 2013. – 36с. Методичка заочники\_2013

2. Бура М.В. Методичні вказівки для самостійної роботи студентів напрямків підготовки 6.040102 – біологія та 6.040106 – екологія, охорона навколишнього середовища та збалансоване природокористування з курсу «Біофізика». (для студентів біологічного факультету) / М.В. Бура, С.М. Мандзинець, М.Б. Галан, Д.І. Санагурський. – Львів: Видавничий центр ЛНУ імені Івана Франка, 2012. – 65 с. Методичка\_біофізика\_Бура 3. Біофізика клітини: СилабусБіофізикаКліт 4. “Біоенергетика”: Sylabus-Біоенергетика 5. “Людина і космос”: Сілабус ЛіК

**2. Department of Biochemistry**

Currently, the Scientific School "Biochemistry and Molecular Biology" at the Department of Biochemistry of Ivan Franko National University of Lviv unites 2 doctors of biological sciences and 13 candidates of biological sciences.

The general scientific direction of the school is determination the molecular mechanisms of extreme factors action on various body systems. Among the priority areas of the scientific school are: Study of biochemical mechanisms of regulation of the functional state of cells of the blood system in various pathologies (under conditions of diabetes mellitus, the effects of X-rays and alcohol intoxication); Research of mechanisms of biological action of physiologically active components of medicinal plants for obtaining phytopreparations of antioxidant and sugar-lowering action; Investigation of molecular mechanisms of protective effect of natural complexes of grape polyphenols under conditions of oxidative and nitrative stresses; Development of effective methods for the correction of metabolic disorders induced by hypoxia of various etiologies.

**3. Department of Genetics and Biotechnology**

The Department of Genetics and Biotechnology was established at the Ivan Franko National University of Lviv in 1976. At the department there are: Research Laboratory of Genetics, Selection and Genetic Engineering of Producers of Biologically Active Compounds - NDL-42; Collection of cultures of microorganisms - producers of antibiotics, included in the State Register of scientific objects that are the national heritage of Ukraine; Collection of Drosophila genetic lines.

Among the main areas of research of the department: Genetics and biotechnology of industrial microorganisms; Drosophila genetics; Genotoxicology; Nanobiotechnology: Methods of teaching genetics and biotechnology in secondary and higher education.

**4. Department of Microbiology**

The Department of Microbiology of Ivan Franko National University of Lviv was founded in 1936 by Napoleon Gonsiorowskyi. The department has a Microbiological Circle, which unites members of the Student Scientific Society, and a Microbiological Circle of the Small Academy of Sciences. The main directions of scientific work of the department are: Monitoring the content of xenobiotics for the use of microorganisms; Research of adaptations of microorganisms that convert sulfur compounds in nature to the influence of chemical pollutants as stressors; Development of methods for purification of contaminated media from pollutants of organic and inorganic nature with the participation of microorganisms; Research of exoelectrogenic processes in prokaryotes and work with microbial fuel cells; Research of microbiocenoses of waste heaps of coal mines and reservoirs of ecologically dangerous areas; Investigation of physiological and biochemical properties of microorganisms isolated from various substrates of Antarctica.

Methodical materials: Methodology of scientific research in microbiology: methodical instructions; Molecular microbiology: methodical instructions; Methodical instructions for the scientific seminar "Current issues of microbiology".

**5. Department of Zoology**

The Department of Zoology was separated in 1852 from the Department of Natural History. Restored in 1974 at the Faculty of Biology by the Association of the Department of Invertebrate Zoology and the Department of Vertebrate Zoology. It was headed by Professors M. Schmidt (1852–76), S. Syrskyi (1876–82), head kaf. G. Kadyі (1882–83), B. Dybovsky (1883–1906), Y. Nusbaum-Gilyarovich (1906–17), J. Hirschler (1917–39), K. Sembrat (1939–41), V. Zdun (1974–88), Assoc. Prof. I. Gladunko (1988–98), prof. J. Tsaryk (since 1998). The Zoological Museum, NDL-41 "Environmental Protection and Rational Use of Natural Resources" operates at the department.

Areas of research: faunal and ecological (founded by Prof. V. Zdun, continued by Prof. Y. Tsaryk), hydrobiological (founded by Prof. N. Yalynska, continued by Prof. J. Tsaryk). During the existence of the department 9 candidates (PhD) were prepared and 1 doctor of sciences (Dr.hab.).

**6. Department of Botany**

**7. Department of Human and Animal Physiology**

The head of the Department of Human and Animal Physiology is Professor Dr Volodymyr Manko (since 2011). The main directions of scientific work of the department are: adaptation potential of mitochondria of acinar cells of the pancreas and liver, its limits and mechanisms of formation by oxidation of various substrates of the Krebs cycle and amino acids; respiration of mitochondria in response to the action of protonophores, stability of respiratory rate, elasticity of metabolic flow in acinar cells of the pancreas due to oxidation of various substrates; the effect of calixarenes on the maximum oxidative capacity of mitochondria and the viability of hepatocytes; changes in morphological parameters of erythrocytes modified in different media using the Olympus IX73 microscope with DP-74 digital camera and subsequent processing of microphotographs using the graphic editor GIMP2.10 and ImageJ version 2.0, erythrocyte search algorithm based on Hough Circle Transformation (BenjaminSmith); development of tremor in people with different functional states of the body.

Methodical materials: 1. Оформлення курсових, дипломних і магістерських робіт: Методичні вказівки для студентів біологічного факультету / С.О. Волгін, С.О. Гнатуш, В.В. Манько : вид. 3-тє, вип. і доп. – Львів : Львівський національний університет імені Івана Франка, 2012. – 52 с. 2. Фізіологія людини і тварин (фізіологія нервової, м’язової і сенсорних систем) : підручник : [для студ. вищ. навч. закл.] / М. Ю. Клевець, В. В. Манько, М. О. Гальків, О. В. Іккерт, С. В. Бичкова. – Львів : Львівський національний університет імені Івана Франка, 2011. – 264 с. – (Серія «Біологічні Студії»). – [Рекомендовано МОН України як навчальний підручник з грифом № 1/11-686 від 10.02.2010]. 3. Основи техніки лабораторних робіт у фізіологічних дослідженнях : навчальний посібник / Манько В.В., Гальків М.О., Клевець М.Ю. – Львів : ЛНУ імені Івана Франка, 2005. – 133 с.

**8. Department of Plant Physiology and Ecology**

Head of the Department of Plant Physiology and Ecology - Myroslava Kobyletska, Candidate of Biological Sciences, Associate Professor. Employees of the Department of Plant Physiology and Ecology share an interest in studying plants as organisms, from wild plants (rough-haired sedge, meadow clover), economically important plants (energy willow, wheat, buckwheat, sunflower) to plant model objects (Brachipodium).

Their research activities focus primarily on three broad areas: plant growth and development and ways to manage them with biologically active substances; mechanisms of plant resistance to adverse factors (heavy metals, salinity, phytopathogens, high and low temperatures) and the possibility of their use for remediation of contaminated environment; obtaining plant products with proper micronutrient composition, biofortification of plant products.

**9. Department of Ecology**

The Department of Ecology was established on November 21, 2012 at the Faculty of Biology of Ivan Franko National University of Lviv. Among the scientific topics of the department are monitoring and multilevel bioindication assessment of the ecological condition of urbanized and man-made transformed territories and waters of Western Ukraine. Employees of the department study biodiversity (phyto-, myco-, zoodiversity) and its anthropogenic changes, biota distribution in natural and urban ecosystems of Western Ukraine, problems of conservation of natural complexes, study the ecological status of water bodies in different levels of anthropogenic load Lviv, their floristic and faunal component, as well as bioindication characteristics of certain species of biota, analyze the ecological and biochemical characteristics of aquatic plant species; study the effect of metals, pesticides and natural toxins (aflatoxin B1) on metabolism in biota cells; study the reactions of plants to the action of oil in the soil and the possibility of their effective use in phytoremediation technologies.

Methodical materials: · Джура Н. М., Мамчур З. І. Вступ до екологічної діяльності: навчально-методичний посібник для студентів першого (бакалаврського) рівня спеціальності 101 Екологія. – Львів: Львівський національний університет імені Івана Франка, 2020. – 130 с.

· Антоняк Г.Л., Калинець-Мамчур З.І., Дудка І.О. та ін. Екологія грибів. Львів: ЛНУ імені Івана Франка (Серія «Біологічні Студії»), 2013. – 600 с. Fungi\_Антоняк\_Мамчур · Мамчур З.І., Одінцова А.В. Літня навчальна практика з ботаніки: Навчально-методичний посібник для студентів біологічного факультету. – Львів: Видавничий центр ЛНУ ім. Івана Франка, 2007. – 176 с. · Хміль Т.С., Мамчур З.І., Кондратюк С.Я. Колекція мохів Антона Ремана з Південної Африки в гербарії Львівського національного університет імені Івана Франка (LW). – Львів: Львівський національний університет імені Івана Франка, 2013. – 134 с.

· Мохи з колекції Рудольфа Вільчека у Гербарії Львівського національного університету імені Івана Франка (LW)(каталог) / укладачі: Мамчур З.І., Хміль Т.С., Жук О.О., Сеник М.Б. – Львів: ЛНУ ім. Івана Франка, 2011. – 176 с. (посилання: Вільчек)

**· Other structural units (centers, institutes, laboratories, etc.) / Centers, Instituts and Labs**

1. Botanical Garden

2. Vivarium

3. Herbarium

4. Ecological and hydrobiological laboratory

5. Zoological Museum

6. Collection of cultures of microorganisms

7. Interdisciplinary training laboratory of virtual methods in biology

8. Interdepartmental educational laboratory of mathematical methods in biology

9. Interuniversity Center for Collective Use of Cell Biology and Bioenergy

10. Interfaculty educational laboratory of instrumental research methods

11. Training laboratory of spectrophotometric research methods

12. Educational and methodical laboratory for the study of biodiversity

**· Відомі випускники / Famous Alumnis**

Ihor Medyna, Roman Tyzio, Viktor Chaban

Medyna studied at the Department of Biophysics and IMB of Ivan Franko University of Lviv in 1977-1982. Today he holds the position of Chief Research Fellow at INSERM and Head of the Laboratory at INMED.

Ihor Medyna is a well-known specialist in neurobiology, electrophysiology, tomography and cell biology in Europe and the United States.

R. Tizio studied at the Department of Biophysics of Ivan Franko University of Lviv in the 1980s. He currently works at the Mediterranean Institute of Neurobiological Research (Marseille, France) in the Department of Neuroclore, where he studies the role of chlorine ions in brain cell function. Dr. Tizot R.'s professional interests are focused on the study of physiological changes in neuronal functions.

V. Chaban studied at the Ivan Franko University of Lviv at the Department of Biophysics in 1986-1990. After the defenseof his thesis he continued his practice in neuroscience at the Medical Department of the University of California, Los Angeles (UCLA, USA), and in clinical research - Charles Drew University of Medicine and Science (CDU, Los Angeles, USA). Viktor Chaban currently works at the CDU as an associate professor of medicine. He has received a number of awards for his scientific achievements, including the Wood Velan Prize from the International Union of Biochemistry and Molecular Biology and grants from the International Science Foundation, the European Science Foundation and UNESCO.

**· Стратегія / Strategy**

MISSION:

· formation of the specialist's personality as a bearer of intellectual and innovative potential of worldview, professional, socio-political and moral-ethical competencies;

· development of educational, research, social and cultural-artistic environment for the harmonious formation of scientific, aesthetic and spiritual worldview of student youth

VISION

· high-quality training of new generation specialists, introduction of modern educational technologies;

· achieving high standards of scientific research and deepening integration into the world scientific space;

· creation of appropriate conditions for professional and creative self-realization of a teacher, employee, student;

· involvement of students in the decision-making process and activities of the faculty and the university;

· formation of students' sense of national and patriotic duty, ecological culture, active citizenship

STRATEGIC GOALS

EDUCATIONAL AND METHODICAL WORK:

· opening (licensing and accreditation) of new innovative and promising, including interdisciplinary, educational programs and modernization of existing content taking into account modern requirements - involvement of stakeholders in the analysis of programs, application of student-centric approach and systematic monitoring;

· increase the number of training courses taught in English for the training of specialists at the educational levels of "Master" and "Doctor of Philosophy"

· preparation of textbooks, manuals, lecture courses, including electronic, and presentation courses in academic disciplines, the formation of an electronic library;

· updating the material and technical base to ensure the educational process (devices and materials, multimedia equipment, computer equipment and its software);

· expansion of bases of educational and industrial practices as possible places of future employment of graduates of faculty (establishments of biological, medical and nature protection profile); initiating the creation of a network of hospitals of the universities of the Ministry of Education and Science of Ukraine and the National Academy of Sciences of Ukraine and establishing cooperation with higher education institutions on their exchange use;

· development of academic mobility of students, scientific and pedagogical staff of the faculty, intensification of international internships;

· strengthening cooperation with potential employers, organizing labor fairs, involving representatives of companies, institutions and organizations in joint events (seminars, optional classes, scientific conferences, round tables, trainings), organizing in-service training courses for teachers.

SCIENTIFIC WORK:

· initiating the construction and involvement of employees of the Faculty of Biology in the organization of the Center for Scientific Research of the Faculty of Natural Sciences of the University (Drahomanov Street);

· promoting the development of existing and formation of new scientific schools of the faculty, increasing funding for research by attracting scientific and pedagogical and scientific staff of the faculty to participate in competitions held by international institutions and foundations of Ukraine to obtain grants, projects and economic contracts;

· conclusion of international bilateral agreements with educational institutions and research institutions to enhance the academic mobility of research and teaching staff, doctoral students and graduate students in global and European programs (Erasmus +, Fulbright, NAWA, OeAD, etc.);

· assistance in the preparation and defense of doctoral dissertations and financial support of postgraduate research in order to increase the efficiency of their work;

· promoting the creation of appropriate technical and financial conditions for the scientific work of departments, research laboratories of the faculty, scientific facilities that are the national heritage of Ukraine and the functioning of the Interuniversity Center for Collective Use "Cell Biology and Bioenergy";

· organization of expeditionary work of departments and structural units that conduct field research;

· inclusion of periodicals of the faculty ("Bulletin of Lviv University. Biological Series" and "Biological Studies / Studia Biologica") in scientometric databases;

· scientific partnership with universities of the Ministry of Education and Science of Ukraine, institutions of the National Academy of Sciences of Ukraine, branch academies of sciences, the Ministry of Health of Ukraine, and objects of the nature reserve fund.

VOCATIONAL, ORGANIZATIONAL AND EDUCATIONAL ASSISTANCE

· activation of existing and search for new forms of career guidance work;

· implementation of the Concept of national education of young people with active citizenship (involvement of students in national-patriotic events and actions of the university, organization of meetings with famous scientists, public figures, employees of the psychological service of the university);

· University Open Space;

· development of a system of measures for employment of graduates of the faculty.

**· Міжнародна співпраця /International Cooperation**

- \* міжнародні освітні проєкти (в хронології від найновіших (зверху) до більш давніх (не старіші ніж 5 років) / International Educational Projects

- \* міжнародні наукові проєкти (в хронології від найновіших (зверху) до більш давніх (не старіші ніж 5 років)) / International Scientific Projects

- \* академічна мобільність /Academic Mobility

- \* міжнародні освітні і наукові заходи (семінари, конференції тощо) /International Educational and Scientific Activities

**НАВЧАННЯ / ACADEMICS**

**· Бакалавр / Вachelor**

Specialty 014.05 Secondary education (Biology and Human Health)

Educational program Secondary education (Biology and Human Health)

Specialty 091 Biology

Educational program Biology

Specialty 101 Ecology

Educational program Ecology

Specialty 162 Biotechnology and Bioengineering

Educational program Biotechnology and Bioengineering

**· Магістр / Master**

Specialty 014.05 Secondary education (Biology and Human Health)

Educational program Secondary education (Biology and Human Health)

Specialty 091 Biology

Educational programs:

Biophysics

Biochemistry

Genetics

Zoology

Microbiology

Human and animal physiology

Biodiversity conservation

Laboratory diagnostics of biological systems

Specialty 101 Ecology

Educational program Ecology

**· Practice**

**- \*практика/Practice**

The practice of higher education seekers is an integral part of the educational process. Students of the Faculty of Biology undergo internships at the Alpine Biological Hospital, Shatsk Biological and Geographical full-time department, Botanical Garden, educational and research laboratories of the University, educational institutions, research institutions and industries of Lviv. The faculty has an interuniversity Center for the collective use of cell biology and bioenergy, interfaculty training laboratory of instrumental research methods, interdepartmental training laboratory for the study of biodiversity, training laboratory of spectrophotometric research methods in biology, interdisciplinary training laboratory of virtual methods in biology, ecological-hydrobiological laboratory, three research laboratories and objects whose collections are the national heritage of Ukraine: Zoological Museum, Herbarium and collection of cultures of microorganisms - producers of antibiotics.

**· Аспірантура та докторантура / Postgraduate and doctoral studies**

The Doctor of Philosophy is both an educational and at the same time the first scientific degree obtained at the third level of higher education on the basis of a master's degree. The degree of Doctor of Philosophy is awarded by a specialized academic council of a higher education institution or scientific institution as a result of successful completion of the relevant educational and scientific program and public defense of the thesis in the specialized academic council.

Doctor of Science (Dr.Hab.) is the second scientific degree obtained by a person at the scientific level of higher education on the basis of the degree of Doctor of Philosophy and involves the acquisition of the highest competencies in developing and implementing research methodology, conducting original research, obtaining scientific results. or practical problems, are of national or global importance and published in scientific journals.

At the Faculty of Biology there is a postgraduate course (Doctor of Philosophy) in the specialties 091 - Biology and 101 - Ecology and a doctoral program in the specialty 091 - Biology.

**ВСТУПНИКУ / FUTURE FOREIGN STUDENTS**

**· Твої перспективи / Your perspectives**

Graduates of the Faculty of Biology can work in scientific, environmental, sanitary-epidemiological, agricultural, food and microbiological industries, fisheries, nature conservation, landscaping and park management, in environmental health research and diagnostic institutions and in forensic examinations and educational institutions of all levels, both in Ukraine and abroad.

Duration of studying:

Bachelor - 3 years and 10 months, Master - 1 year and 4 months

**· Інформація про навчальний процес / Information about Educational Process**

- тривалість і організація навчання /Duration and Organization of Study Process

- перелік ОПП /Educational Programmes

- процедура вступу /Admission Procedure

- інформація про оформлення документів та візи /Information about Necessary Documents and Visa

**НАУКА / RESEARCH**

**· Напрямки досліджень / Research Areas**

**· Міжнародні проєкти / International Projects**

Since 2017, the Department of Plant Physiology and Ecology has been running a project in collaboration with Cornell University (USA) OISE-16-62755-0 "Sustainable Approaches to Increasing Wheat Yield and Nutritional Value", funded by the Civil Research and Development Foundation (CRDF Global). You can read more here: Symposium thesis project

**· Національні програми / National programs**

**- \*держбюджетні проєкти та гранти / state budget projects and grants**

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**· Видання / Publications**

· Bulletin of Lviv University. Biological series · Biological studies / Studia Biologica · Reporting scientific conference of the University for 2021

**· Семінари / Seminars**

Seminars of the Department of Zoology  
Spatial structure of amphibian groups of the Ukrainian Roztocze (Bohdan ANDRIISHYN, graduate student. Date: 2022.03.25)   
Principles of modeling of ecological systems and processes (Maria MARTSIV, graduate student. Date: 2022.04.08)   
Features of the structure of bat populations (Yuriy CHAIKA, graduate student. (2022.04.22)   
Death of amphibians on highways within the territories of Ukrainian Roztocze (Natalia BALANDYUKH, graduate student. Date: 2022.04.29)   
Analysis of the spread of the family of leafhoppers (Chrysomelidae) in Ukraine (Kateryna LESIV, graduate student. Date: 2022.05.06

Analysis of the distribution of crows (Corvidae) in winter in the urban agglomerations of Lviv and Cherkasy regions (Vadym ZHULENKO, graduate student. Date: 2022.05.13) Date of the event: 2022.05.20)

The impact of media speculation on public awareness of coexistence with reptiles (Krempa KM, graduate student. Date: 2022.05.27)

**· Конференції / Conferences**  
1. Reporting scientific conference of the University for 2021 Reporting conference-2022 (for 2021) NEW (1)

2. Youth and progress of biology 2021 MP 2021 program

3. XVI International Scientific Conference of Students and Postgraduates "YOUTH AND PROGRESS OF BIOLOGY", dedicated to the 75th anniversary of the Faculty of Biology of Ivan Franko National University of Lviv and the 90th anniversary of the birth of prof. M.P. Derkach (April 27-29, 2020) Collection of theses\_MiP\_2020

4. International Zoological Conference "Fauna of Ukraine at the turn of XX-XXI centuries. state and biodiversity of ecosystems of protected areas »Collection Shatsk 2019\_

5. XV International Scientific Conference of Students and Postgraduates "YOUTH AND PROGRESS OF BIOLOGY", dedicated to the 135th anniversary of the birth of Y. O. Parnassus (April 9-11, 2019) Collection of abstracts

6. XIV International Scientific Conference of Students and Postgraduates "Youth and Progress in Biology", dedicated to the 185th anniversary of the birth of B. Dybovsky (April 10-12, 2018)

7. IV International Conference “Ontogenesis of plants in natural and transformed environment. Physiological, Biochemical and Environmental Aspects ”(Lviv (Ukraine), October 4-6, 2017)

8. XIII INTERNATIONAL SCIENTIFIC CONFERENCE OF STUDENTS AND POSTGRADUATE STUDENTS “YOUTH AND PROGRESS OF BIOLOGY” (April 25-27, 2017)

9. International Scientific Conference "Actual Problems of Modern Biochemistry", dedicated to the 100th anniversary of Professor Boris Fyodorovich Sukhomlinov (November 16-18, 2016, Lviv)

10. International Scientific Conference “Achievements and Prospects of Microbiology Development” (Lviv, October 12-14, 2016)

11. XII INTERNATIONAL SCIENTIFIC CONFERENCE OF STUDENTS AND POSTGRADUATE STUDENTS “YOUTH AND PROGRESS OF BIOLOGY” (April 19-21, 2016)

**СТУДЕНТУ / CURRENT STUDENTS**

**· Студентське життя / Student Life**

Student life is a special period for every young person who has decided to get a professional education. For some it is a long-awaited change, for others - a fear of the new and unknown, and for every freshman it is very important to have a friend-guide who would help navigate the hectic and impressive atmosphere of student life. Activists of the student self-government of the faculty decided to help freshmen to adapt to the new environment and join the student family of Ivan Franko National University of Lviv as soon as possible.

**· Студентська рада / Student Council**

Chairman of the Student Council – Anzhelika Kulchytska

Deputies:

Viktoriia Rudenko, Mariia Voitovych, Iryna Katulska

Members of the Student Council:

Vasylyna Bunyak

Roman Bushta

Mariia Voitovych

Roksolana Duban

Viktoriia Zaletska

Iryna Katulska

Marta Kulyk

Diana Hrytsyshyn

Solomiia Markevych

Nadiia Mykhalchak

Yana Muzyka

Nataliia Pelenyo

Khrystyna Reshtei

Viktoriia Rudenko

Khrystyna-Yuliia Skrynnyk

Lev Tsarin

Mariia Chaban

The work of the Student Council is organized in the following departments: Press Center, Creative Department, Research Department, Sports Department, Sponsorship and Cooperation Department, Student Television. Our team consists of more than twenty active students who strive to make the student life of the faculty better. We are a team of active and creative young people who want to turn all their ideas into reality and work for the benefit of students. So, if you want to work with us, implement cool projects together and improve - we are waiting for you in our team!

**· Студентське профбюро / Student Trade Union**

The team of the Trade Union Bureau of the Faculty of Biology is divided into the following departments:

Information - is engaged in searching for information, writing texts, developing posters and general design of the page, creating content for social networks.

Cultural and mass - organizes cognitive and entertainment events, competitions, parties.

Career prospects - organizes trainings, meetings, seminars, cooperates with public and private structures for internships and employment of students, communicates with other universities to share experiences.

Sponsorship - looking for sponsors, negotiates discounts for students of the faculty.

Touristic - organizes sports events, as well as various trips, hikes, etc.

In general, the team has talented people who motivate not only each other but also students to work and live an active life. We are friendly and hardworking, we are glad to invite you to the team!

Team members

1. Svitlana Bublyk

2. Yana Vlasiuk

3. Viktoriia Vonsovych

4. Daryna Hrachova

5. Tetiana Hrytsan

6. Iryna Danylo

7. Khrystyna Zakharevych

8. Diana Zinchuk

9. Mariana Ihnat

10. Viktoriia Kernytska

11. Uliana Kyryliv

12. Yelyzaveta Kokot

13. Taisiia Kosmenko

14. Uliana Kuzyk

15. Viktoriia Lepetska

16. Yuliia Malachynska

17. Yelyzaveta Petlina

18. Karina Pohorila

19. Alina Prystupa

20. Mariia Roik

21. Olha Svidryk

22. Oleksandra Sydorchuk

23. Khrystyna Sorochynska

24. Solomiia Terletska

25. Maryna Fetisova

26. Viktoriia Futerko

27. Viktoriia Chemiorkina

28. Andrii Shemchuk

29. Rostyslav Shulhan

**· Старости та порадники / Advisers**

Advisers:

BLB – 11, N. Matviitsiv, Assoc. Prof.,

BLB -12, A. Odintsova, Assoc. Prof.,

BLB – 13, S. Bychkova, Assoc. Prof.,

BLB – 14, A. Halushka, Assoc. Prof.,

BLB – 15, I. Brodyak, Assoc. Prof.,

BLB – 16, A. Heneha, Assoc. Prof.,

BLO – 11, R. Andreichuk, Assoc. Prof.,

BLE – 11 N. Dzhura, Assoc. Prof.,

BLB – 21, T. Peretiato, Assoc. Prof.,

BLB – 22, O. Statyk, Assoc. Prof.,

BLB – 23, I. Ostash, Assoc. Prof.,

BLB – 24, I. Mykiievych, Assoc. Prof.,

BLB – 25, O. Ivanets, Assoc. Prof.,

BLB – 26, V. Liesnik, assistant

BLO – 21, V. Merlavskyi, Assoc. Prof.,

BLE – 21, O. Tsvilyniuk, Assoc. Prof.,

BLB – 31, I. Koltun (zoologists), O. Zhuk (botanists)

BLB – 32, O. Mamchur, Assoc. Prof.; O. Ikkert, , Assoc. Prof.,

BLB – 33, O. Maslovska, Assoc. Prof. (microbiology), V. Syrvatka, assistant (genetics)

BLB – 23, M. Dyka, Assoc. Prof., M. Nahalevska, Assoc. Prof.,

BLB – 35, I. Honcharenko, Assoc. Prof.,

BLB – 36, A. Tarnovska, Assoc. Prof.,

BLO – 31, N. Romaniuk, Assoc. Prof.,

BLE – 31, Y. Drach, assistant

BLB – 41, O. Hnatyshyn, Assoc. Prof., (zoology), O. Dyka, assistant (botany)

BLB – 42, O. Patsula, Assoc. Prof.; O. Velykopolska, Assoc. Prof.,

BLB – 43, N. Holub, Assoc. Prof., (genetics); H. Zvir, Assoc. Prof., (microbiology)

BLB – 44, M. Sabadashka, Assoc. Prof.; N. Harasym, Assoc. Prof.,

BLO – 41, O. Velychko, Assoc. Prof.,

BLE – 41, O. Dumych, Assoc. Prof.,

Monitors:

BLO – 11, Клим Софія Ігорівна

BLE – 11, Михайлюк Соломія Ігорівна

BLB – 11, Бушта Романа Ігорівна

BLB – 12, Кулик Марта Юріївна

BLB – 13, Руденко Вікторія Дмитрівна

BLB – 14, Коберенко Василина Володимирівна

BLB – 15, Воляник Юлія Андріївна

BLB – 16, Фанта Анастасія Володимирівна

BLB – 11z, Стах Ірина Олександрівна

BLO – 21, Купчинська Лідія Зіновіївна

BLE – 21, Грицак Валентина Павлівна

BLB – 21, Зінчук Діана Вікторівна

BLB – 22, Кріль Захар Андрійович

BLB – 23, Крижанівська Софія Вікторівна

BLB – 24, Саламовська Анна Володимирівна

BLB – 25, Марисей Марта Іванівна

BLB – 31, зоологія Мінькач Олексій Вікторович

BLB – 31, ботаніка Івлева Дар'я Романівна

BLB – 32, фізіологія та екологія рослин Римська Кароліна Андріївна

BLB – 32, фізіологія людини та тварин Грошко Вікторія Вікторівна

BLB – 33, мікробіологія Власюк Яна Сергіївна

BLB – 33, генетика Дубан Роксолана Назарівна

BLB – 34, біофізика Катульська Ірина Юріївна

BLB – 34, (biochemistry) Khrystyna-Yuliia Skrynnyk

BLO – 41, Yuliia Malachanska

BLE – 41, Nataliia Trishch

BLB – 41, (botany) Diana Kryvda

BLB – 41, (zoology) Mariana Ihnat

BLB – 42, (plant physiology) Svitlana Hois

BLB – 42, (human and animal physiology) Tetiana Topilnytska

BLB – 43, (microbiology) Iryna Boretska

BLB – 43, (genetics) Anastasiia Stepanyshyn

BLB – 44, (biophysics) Diana Lutsiovych

BLB – 44, (biochemistry) Mariia Chaban

Старости магістратури 1 року навчання

БЛО-11М Терзалова Галина Юріївна

БЛБ-11 M Стасишин Лілія Ігорівна

БЛБ-12М Гнатишин Ольга Тарасівна

Блб-13М Собчук Світлана Миколаївна

БЛБ-14М Юсип Ірина Михайлівна

БЛБ-15М Капран Соломія Назарівна

БЛБ-16М Романов Сергій Олексійович

БЛЕ-11М Павлина Руслан Богданович

Старости магістратури 2 року навчання

БЛО-21М Китчак Софія Віталіївна

БЛБ-21М Анісімов Максим Віталійович

БЛБ-22М Романюк Любов Іванівна

БЛБ-23М Коропецький Олександр Юрійович

БЛБ-24М Цедуляк Василина-Марта Сергіївна,

БЛБ-25М Чіпак Софія Юріївна

БЛБ-26М Мороз Анна Андріївна

БЛБ-27М Візічканич Іванна Іванівна

БЛБ-28М Маслакова Аліна Олександрівна

БЛЕ-21М Рибалко Владислав Володимирович

БЛОМ-11з Лозинська Софія Романівна

НОВИНИ / NEWS

· Оголошення про заходи (конференції, семінари, літні школи тощо), які заплановані як міжнародні

· Важливі новини з головного сайту (англійською мовою), які стосуються факультету за минулі 2-3 місяці

1. У видавництві ЛНУ імені Івана Франка в рамках серії «Біологічні студії» побачила світ колективна монографія «Протипухлинні перспективи сульфуровмісних препаратів» [А. М. Бабський, В. П., Гренюх, О. С. Заіченко та ін.]; за ред. проф. А. М. Бабського. – Львів : ЛНУ імені Івана Франка, 2022. – 112 с. – (Серія “Біологічні Студії”)

2. Шановні викладачі та студенти, запрошуємо вас взяти участь у вебірнарі “Keeping Women in STEM Careers- Fixing the Leaky Pipe”, який відбудеться 22 лютого 2022 року о 16.00 (15.00 CET) в рамках проєкту RESBIOS https://resbios.eu/ програми Горизонт 2020. Вебінар проводитиметься через Zoom. Посилання та нагадування будуть своєчасно надані. Для участі у вебінарі необхідно зареєструватися за посиланням: https://docs.google.com/forms/d/e/1FAIpQLSfdPIAxu4fEicaumI4juFa1ZZ2G2o59BDHJsEJVxURJQGbmqg/viewform Більше детальної інформації можна дізнатися тут: https://mailchi.mp/4fc9f5d669fc/resbios-open-dialogue-gender-career-development-versus-covid-15313600