

40 Years of Institute of Molecular Biology and Genetics of the National Academy of Sciences of Ukraine

The Institute of Molecular Biology and Genetics (IMBG) of the National Academy of Sciences of Ukraine (NASU) was founded in 1973. The staff comprises 433 employees, among them 272 scientists in the field of molecular biology, genetics, molecular biophysics, microbiology, medical chemistry and biotechnology, including 31 Doctors of Sciences (Dr. Sci.), 120 Doctors of Philosophy (Ph. D.), 2 Full Members of NASU, 1 Full Member of Academy of Medical Sciences of Ukraine (AMSU), and 10 Corresponding Members of NASU.

Scientific research programme of the IMBG is focused on the central trends in molecular biology, genetics and biotechnology:

- ✧ Structural and functional genomics;
- ✧ Proteomics and protein engineering;
- ✧ Molecular and cell biotechnologies;
- ✧ Bioinformatics computational modeling and design.

IMBG actively participates in many national and academic scientific programmes «Fundamentals of Genomics and Proteomics», «Health of the Nation», «Sensor Systems and Technologies for Medicine and Ecological Control», «Nanostructural Systems, Nanomaterials, Nanotechnologies», «Novel Biomedical Problems and Human Environment», *etc.*

The Institute is rather efficient in international cooperation. For many years IMBG scientists successfully collaborate with their colleagues from Germany, France, USA, Great Britain, Poland, Italy, Greece, Japan, Russia, Belarus and others. At present, IMBG is involved in 4 FP7 projects: «Improving Diagnoses of Mental Retardation in Children in Eastern Europe and Central Asia through Genetic Characterization and Bioinformatics/Statistics» (FP7-HEALTH, SICA), «Nanosensors based on nanomaterials» (FP7-PEOPLE, IRSES), «Transnational Access to NMR» (FP7 East-NMR programme) and «Strengthening Cooperation in Molecular

Biomedicine between EU and Ukraine» (COMBIOM), (FP7-INCO-2011-6, ERA-WIDE). We have a number of other international grants including those of CNRS, NATO, STCU, *etc.*

About 90 conferences, meetings, scientific schools including international ones were hosted during these years.

Presently 110 young employees (under 35 years old) are working at IMBG and annually more than 30 young researchers take different post-graduate courses. As a «Molecular Biology» specialization of the Biochemistry Department, IMBG provides several courses on molecular biology and genetics for the students of Kyiv National Taras Shevchenko University, lectures and seminars for students of National University of Kyiv-Mohyla Academy, National University of Food Technologies, National Technical University of Ukraine «Kyiv Polytechnic Institute».

The Council of Young Scientists supported by the IMBG Scientific Council conducts the young scientists' conferences for international and Ukrainian participants on the modern aspects of molecular biology, oncology and genetics.

Over 5000 scientific articles were published by the scientists of the Institute, out of which more than 1200 – in international journals, including «Nature», «Science», «Gene», «EMBO J.», «J. Biochem», «Prog. Nucleic Acid Res. Mol. Biol.», «Nucleic Acids Res.», «Molecular and Cellular Biology», «J. Cell Science», «Biotechnology Current Progress», «Structure».

Three scientific journals: «Biopolymers and Cell» (www.biopolymers.org.ua), «Ukrainica Bioorganica Acta» (www.bioorganica.org.ua), «Visnyk of Ukrainian Society of Geneticists and Selectionists» are being published.

*Director IMBG NASU
prof. A. V. El'skaya*