

PREFACE

The International Scientific Conference on Biotechnology and Food Technology BFT—2020 took place in Saint Petersburg, Russia, on October 27-29, 2020. BFT—2020 was a sequential conference organized by Saint-Petersburg State Institute of Technology. It was dedicated to the 45th anniversary of biotechnological education in Russia.

Leningrad Lensoviet Institute of Technology (now Saint-Petersburg State Institute of Technology) is a world-renowned center of chemistry, chemical technology and engineering, the leading Russian Institution of Higher Education and a modern educational center.

With the development of the biotechnological industry, a need for training new specialists – biotechnologists – arose, so in May 1975, the Ministry of Higher Education of the RSFSR issued an order to create a new specialty – biotechnology.

The first department of biotechnology in the Soviet Union was founded in Leningrad Lensoviet Institute of Technology 45 years ago. Since that time thousands of graduates of the department have been working in various fields of biotechnology, food and pharmaceutical technology in Russia and abroad.

The conference brought together both foreign and Russian scientists specializing in biotechnology and food technology. The participants from different parts of the world exchanged their knowledge and experience on the following topics: Agriculture Biotechnology; Animal Biotechnology; Biocatalysts; Biodegradation of Hazardous Substances; Biofuels; Bioinformatics; Biomaterials; Biotechnology in Food; Biotechnology of Microbial Enzymes; Cell/Molecular Biotechnology; Environmental Biotechnology; Enzyme and Microbial Technology; Food Technology and Biotechnology; Genetics and Genetic Engineering; Hygienic Design of Equipment in Food Processing; Industrial Biotechnology; Marine Biotechnology; Medical Biotechnology; Microbial Physiology, Metabolism and Gene Expression; Modern Biotechnology in Food Safety and Quality; Plant Biotechnology.

Modern biotechnology plays a big role in the qualitative improvement of human life, development of economic growth in countries. Through biotechnology, new means for diagnostics, vaccines, food, drugs are obtained.

Biotechnology helps increase the yield of all cereals, which is highly relevant in the light of permanently growing population of our planet. In those countries where significant amount of biomass is not fully utilized, biotechnology is able to transform it into valuable products or biofuels. Biotechnology is now stopping to be an applied science since today it is being actively introduced in the everyday life of people helping to solve the pressing problems of modern mankind.

The authors submitted qualified papers to BFT — 2020. Within the framework of the technical review all papers were thoroughly checked for the following attributes: compliance with the subject of the conference; plagiarism (acceptable minimum of originality was 90%); acceptable English language. At the same time, papers were checked by a technical proofreader. Scientific review of each paper was made by at least 3 reviewers. If the opinions of the reviewers were radically different, additional reviewers were attracted.

On behalf of the Organizing Committee, we express our deep gratitude to E3S Web of Conferences and to the whole crew of the journal for publishing the proceedings of BFT—2020.

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