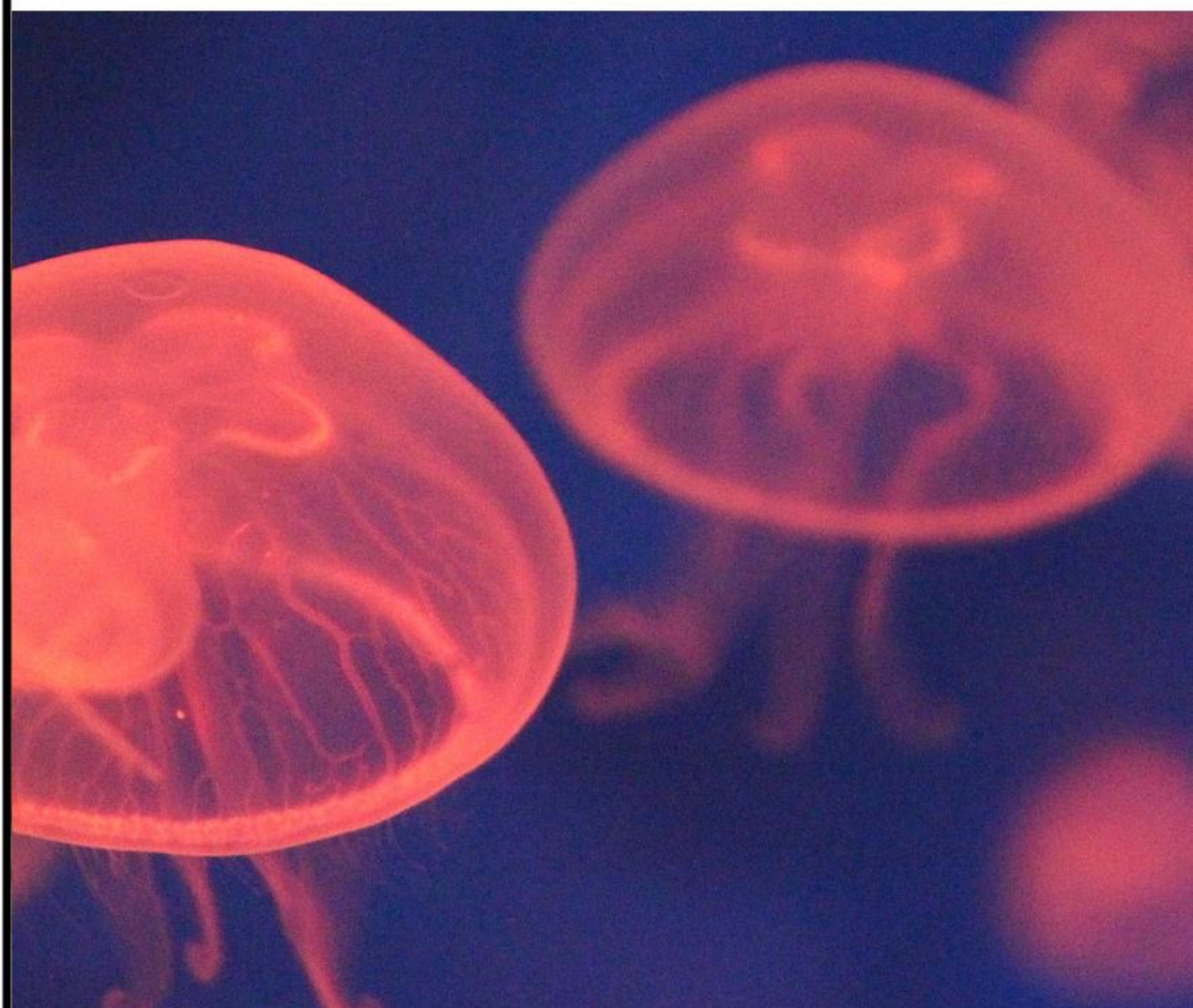


Journal of Microbiology  
Biotechnology and Food Sciences

*scientific journal*



**June - July, 2022, vol. 11, no. 6**



Published by:  
**Faculty of Biotechnology and Food Sciences**  
**Nitra, Slovakia**



# Journal of Microbiology, Biotechnology and Food Sciences (JMBFS)

*Peer-reviewed scientific journal*

**ISSN 1338-5178**

The Journal of Microbiology, Biotechnology and Food Sciences is a scientific journal for publishing of scientific articles from microbiology including bacteria, fungi, yeasts, algae, protozoa and viruses Microbial, animal and plants biotechnology physiology, modern biotechnologies, genetics, molecular biology, agriculture and food chemistry, food control, evaluation and processing of food, food biochemistry and environmental science of agriculture.

The Journal of Microbiology, Biotechnology and Food Sciences is published 6 times per year in electronic version.

## **Editor**

**Lukáš Hleba** Slovak University of Agriculture, Faculty of Biotechnology and Food Sciences, Department of Microbiology, Tr. Andreja Hlinku 2, 94976 Nitra, Slovakia

## **Editorial board members**

### **Board members for section – Microbiology**

Radosław Stachowiak, Eva Vlková, Vladimír Kmeť, Andrea Lauková, Miroslava Kačániová, Leona Buňková, Salam A. Ibrahim, Shailesh R. Dave

### **Board members for section – Biotechnology**

Peter Massanyi, Peter Chrenek, Norbert Lukáč, Nenad Vuković, Purva Vats, Adriana Kolesárová, Hisanori Tamaki, Peter Sutovsky

### **Board members for section – Food Sciences**

Dietmar Haltrich, Sirichai Kanlayanarat, Angel Antonio Carbonell Barrachina, František Buňka, Giuseppe Maiorano, Ángel Calín Sánchez, Peter Haščík, Marcela Capcarová, Ján Tomáš

<b>PUBLISHER</b>	<b>Faculty of Biotechnology and Food Sciences</b>
<b>PUBLISHER CONTACT</b>	Slovak University of Agriculture, Faculty of Biotechnology and Food Sciences, Tr. Andreja Hlinku 2, 949 76 Nitra, Slovak Republic
<b>MAIN WEB SITE</b>	<a href="http://www.fbp.uniag.sk">www.fbp.uniag.sk</a>
<b>E-MAIL</b>	<a href="mailto:dekfbp@uniag.sk">dekfbp@uniag.sk</a>
<b>ISSUE</b>	June - July 2022, vol. 11, no. 6
<b>PUBLISHING DATE</b>	June 1, 2022
<b>PERSONAL CONTACT</b>	<b>Doc. Ing. Lukáš Hleba, PhD.</b> Department of microbiology + publisher contact
<b>E-MAIL</b>	<a href="mailto:lukas.hleba@gmail.com">lukas.hleba@gmail.com</a>
<b>PHONE NUMBER</b>	+ 421 37 641 5811
<b>JMBFS CONTACT</b>	<a href="http://www.jmbfs.org">www.jmbfs.org</a> <a href="mailto:jmbfs@jmbfs.org">jmbfs@jmbfs.org</a> <a href="mailto:info@jmbfs.org">info@jmbfs.org</a>
<b>COVER PHOTO GRAPHIC</b>	Thanks for manseok_Kim, Figure from <a href="#">manseok Kim</a> z <a href="#">Pixabay</a> Doc. Ing. Lukáš Hleba, PhD.