



Dear Readers,

I am delighted to present the third issue of *BioTechnologia* published in 2024. In this issue, you will find intriguing original research and review articles covering various aspects of biotechnology.

You can explore the intricacies of the immune response to SARS-CoV-2 in human cell-based systems through a paper that compares the response induced by nonreplicating adenoviruses with that of a commercially available pseudo-SARS-CoV-2. It elucidates the impact of different combinations of adjuvants and antigens on both CD8⁺ and CD4⁺ T cell responses. Additionally, another paper covers the pharmacological effects of the ethnomedicinal plant *Macropanax dispermus* on mice, including its central nervous system depressant and antioxidant activities. You will also find an article on the *in vitro* antioxidant, antidiabetic, and antibacterial properties of postbiotics generated by *Lactiplantibacillus plantarum* during fermentation.

One more study investigates the potential of *Solanum lycopersicum* for callogenesis and regeneration from leaves, nodal, and internodal segments in the presence of different plant growth hormones, which could be important for efficiently transmitting desired traits through genetic transformation procedures. We also present an *in silico* investigation of a new single glycine–alanine substitution in reteplase (a recombinant plasminogen activator), which increases the conformational stability of the r-PA structure. Finally, you are invited to read two comprehensive review articles: one on xylanase production, its sources, fermentation processes, modes of action, purification methods, and industrial applications; and the other on the use of nanotechnology in cancer therapy, diagnosis, and management, with a particular emphasis on advancements in drug delivery and imaging nanotechnology.

I hope you find the articles interesting and that they inspire you to explore the upcoming issues of our quarterly journal.

I would also like to inform you that, as of July 1, 2024, there have been changes in the editorial team of *BioTechnologia*. I have been appointed as the new Editor-in-Chief, and Dr. Agata Świątkowska has assumed the role of Deputy Editor-in-Chief. We both extend our heartfelt gratitude to our predecessors, Dr. Agata Tyczewska and Prof. Marek Figlerowicz, for their commitment and years of dedicated service, which have led to *BioTechnologia* being widely recognized and appreciated. We also sincerely thank the entire editorial team for their hard work and contributions, which have allowed *BioTechnologia* to publish high-quality scientific papers. In our new roles, we intend to ensure that *BioTechnologia* continues to publish good science and respects everyone involved, from the author to the reader.

Finally, I invite all scientists to submit the results of their noteworthy studies. The most interesting ones, according to our esteemed Reviewers, will be presented in the future issues of *BioTechnologia*. Our journal publishes high-quality articles within the broad areas of biotechnology, computational biology, and bionanotechnology. The open-access publication model allows quick dissemination of results, making them freely available to any interested readers. Importantly, all articles published in *BioTechnologia* are now included in PubMed and PubMed Central. We look forward to your submissions!

I wish all readers a pleasant reading experience.

EDYTA KOŚCIAŃSKA
Editor-in-Chief