

Editorial

Special Issue on “Advances in Chemical Characterization, Pharmacological Applications and Synthetic Biology of Natural Products”

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Natural medicines refer to products derived from nature that exhibit pharmacological properties [1]. Most of these substances are compounds generated through secondary metabolic processes in various organisms, including animals, plants, and microorganisms [2,3]. These products are crucial for safeguarding human health and for managing various diseases affecting individuals [4]. Numerous pharmaceuticals have been developed from natural substances and their derivatives; consequently, these natural compounds serve as vital resources in contemporary drug development [3]. The refinement of crude extracts from apple pomace presents a promising strategy for enhancing the concentration of beneficial antioxidants and anti-inflammatory phenolic compounds [5]. Yanhui Zhao [6] investigated the chemical properties of DSS and its protective role against CCl₄-induced liver fibrosis, focusing particularly on its mechanisms related to antioxidative stress and anti-inflammatory effects. The significant bacterial inhibition rate of *O. muscula* extract indicates its potential as an antibacterial agent [7]. Terpenoids are naturally occurring metabolites that serve significant roles in numerous pharmaceutical applications [8]. The majority of commercially accessible terpenoids are derived from higher plants; however, the cost-effective and sustainable production of these compounds for pharmaceutical use remains a challenge. This is primarily due to their limited natural availability, difficulties associated with extraction and purification processes, and the high labor intensity involved in their production [9]. The emergence of antibiotic-resistant microbial pathogens presents a considerable threat to both global health and economic stability, thereby underscoring the urgent need to create novel pharmaceuticals and antimicrobial therapies [10]. Synthetic biology methodologies offer insights into various biosynthetic pathways and enable innovative metabolic engineering strategies aimed at enhancing probiotic strains [11]. However, due to increasing resistance to pathogenic microorganisms, drug production and quantity requirements have increased recently, and traditional methods of producing natural drugs are unable to meet these requirements. Sustainability and green development of production are becoming increasingly important. Synthetic biology represents a contemporary interdisciplinary field within life sciences and systems science that has developed in the twenty-first century, integrating traditional metabolic engineering with principles of systems biology. Recent advancements in synthetic biology have significantly encouraged research into natural products and medicines. Enhanced and modified organisms can consistently and effectively produce specific target compounds in high quantities. They are distinguished by their minimal carbon emissions, eco-friendliness, and cost efficiency. The exclusive dependence on conventional methods of discovery and separation, or intricate synthetic



Received: 16 December 2024

Revised: 20 December 2024

Accepted: 20 December 2024

Published: 26 December 2024

Citation: Anwar, M.; Hu, Z. Special Issue on “Advances in Chemical Characterization, Pharmacological Applications and Synthetic Biology of Natural Products”. *Processes* **2025**, *13*, 26. <https://doi.org/10.3390/pr13010026>

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