

Preface

It is with great pleasure and profound anticipation that we present the Proceedings of the 2024 2nd International Conference on Food Science and Bio-medicine (ICFSB 2024), a prestigious gathering that has united scholars, researchers, industry leaders, and policymakers from around the globe to delve into the latest advancements and emerging trends in food science and biomedical research. This year's conference, held during May 25th to 27th, 2024 in Chengdu, China, has once again served as a vibrant platform for intellectual exchange and collaboration, fostering cross-disciplinary insights and innovative solutions to tackle the pressing challenges in these critical fields.

The main point of ICFSB 2024, bridging food science and biomedical research for global health and sustainability, resonates with the urgent need for interdisciplinary approaches to ensure food safety, enhance human health, and promote environmental sustainability. The conference has showcased a wide array of research topics, ranging from food safety and nutrition to biotechnology and biomedical engineering, addressing the most pressing issues of our time, such as the development of novel food processing technologies, the discovery of biomarkers for early disease detection, and the advancement of personalized medicine.

The conference was attended by about 80 delegates around the globe, and has invited many renowned scholars and business elites from home and abroad to act as keynote speakers, who brought the latest scientific research results and industry insights to the conference and related research fields. A number of presentation sessions and panel discussions were set up, in which participants had in-depth exchanges and discussions on topics of interest. In addition to the academic presentations, the conference also arranged poster demonstrations, and interactive Q&A to enhance the attendees' sense of participation and experience. The conference achieved fruitful results by providing the most comprehensive research in food science and biomedical research and a more comprehensive understanding of the latest results of cross researches, and led to a series of valuable ideas and suggestions. At the same time, the conference released a number of high-quality academic papers and research reports, which provide valuable references for researchers in related domains and industries.

ICFSB 2024 solicited academic papers from all over the world, and various excellent papers were accepted and included in this Proceedings after rigorous review and review rebuttal process. These contributions cover many subjects, including but not limited to: Molecular Nutrition, Emerging Food Processing Technologies, Food Safety and Health, Micro/Nano Bioengineering, Cell and Tissue Engineering, Biological Medicine, Human Health, etc. The contributions in this volume can help promote the development of food science and biomedical research, and thereby enhance scientific information interchange among scholars from top universities, research centers and high-tech enterprises working all around the world.

We would like to acknowledge the authors for their contributions and the reviewers for their time and effort to review the submissions. We are thankful to all the committee members and advisors of this conference and the Proceedings. We hope that this Proceedings will serve as a reference for researchers and practitioners in academia and industry of fields food science and biomedical research and their affiliated domains and disciplines.

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