

Preface

In the ever-evolving landscape of scientific and technological advancements, the International Conference on Biotechnology and Biomedicine (ICBB) has emerged as a preeminent platform for scholars, researchers, and practitioners to share their insights and explore the latest trends of innovation. The 6th edition of this esteemed conference ICBB 2024, held during March 29th to 31st, 2024 in Wuhan, China (hybrid event), gathered an esteemed audience from across the globe, reflecting the international scope and impact of scientific and technological advancements.

ICBB 2024, held under the auspices of renowned institutions and organizations, gathered more than 100 leading thinkers, researchers, and practitioners from diverse backgrounds around the world to discuss, debate, and share insights on the latest trends and challenges in biotechnology and biomedicine. The conference was structured to facilitate meaningful exchanges and collaborations, with sessions ranging from keynote speeches by industry leaders, oral presentations highlighting cutting-edge research, to poster sessions that allowed for more interactive discussions.

Keynote speeches set the tone for the entire event by highlighting key themes, trends, and challenges in respective fields. The keynote speakers, who are renowned in their own research domains, offered invaluable insights and perspectives that inspired and guided the participants throughout the conference. Moreover, oral presentations and poster sessions provided researchers and scholars with opportunities to share their findings, receive feedback, and engage in constructive dialogue with peers from around the world. The topics discussed during the whole conference include but are not limited to: Plant Biotechnology and Its Potential Applications, Medical Devices and Technology Advancements, Biotechnology and the Future of Personalized Medicine, Genetic Basis of Disease and Personalized Treatment, Clinical Trials and Drug Safety, etc.

The internationalization of ICBB 2024 is evident in the diversity of participants and the breadth of topics covered. This global perspective not only enriches the discussions but also underscores the interconnectedness of scientific and technological advancements worldwide. The conference is a testament to the power of collaboration and the potential of shared knowledge to drive innovation forward.

This collection is not just a record of the proceedings from ICBB 2024, but a testament to the unwavering spirit of exploration and collaboration among scholars worldwide. Each paper offers a unique perspective on the diverse topics covered, reflecting the depth and breadth of knowledge and expertise within the scientific community. These contributions are not just academic exercises; they are practical explorations that have the potential to shape the future of biotechnology and biomedicine.

We would like to extend our heartfelt gratitude to all the authors who contributed to this volume, as well as to the organizers and participants of ICBB 2024. Your dedication and enthusiasm have made this compilation possible, and we are deeply honored to be a part of this endeavor.

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