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INTERNATIONAL CONFERENCE ON ADVANCES IN 3D CELL CULTURE HIGHLIGHTS INDULGE, INNOVATE, INSPIRE

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Taj The Trees, Mumbai, India â?? February 2-3, 2024



The International Conference on Advances in 3D Cell Culture, held on the 2nd and 3rd of February 2024, brought together leading experts, researchers, and industry professionals for a groundbreaking exploration of the latest advancements in 3D cell culture technologies.

The conference, hosted at the prestigious Taj The Trees, featured a dynamic agenda that encompassed a product launch, engaging talk sessions, platform sessions, unique poster presentations and exciting industry exhibitions.

Day one of the conference began with the inauguration ceremony with the lamp lighting by the convener, Dr. Prajakta Dandekar Jain, the co-convener, Dr. Ratnesh Jain, the vice-chancellor of the Institute of Chemical Technology, Dr. Annirudha Pandit and the esteemed guests of honour, Dr. V. Radha and Dr. Shilpa Vohra. Following this, the guests of honor delivered inspiring words, setting a positive tone for the conference's start.

The conference sessions commenced with the **Advances in organoids and tumoroid developments: Characterizations and Applications** session that encompassed talk sessions by national and international industry and academic experts. The talks were followed by an engaging panel discussion highlighting the assessment and existing technologies.

The launch of India's first leading automated instrument for organ-on-chip technology, **Aurganoform™**, set an enthusiastic tone for the subsequent sessions.

The second talk session post lunch was on **3D bioprinting for the development of artificial organs** where the speakers delved into biofabrication, infectious diseases, biocompatibility and the prospects in the field of 3D bioprinting. The session concluded with a thought-provoking panel discussion between dignitaries from start-ups and industries. The third and final session of the day, probably one of the main novelty factors for this conference, was on **AI-ML and imaging in 3D Cell Culture.** This session emphasized on the fact that we live in the technology era and the applications of Artificial Intelligence and Machine Learning in image processing and data analysis in the field of 3D Cell Culture are limited only by imagination.

On the second day, the focus shifted to the session on **Organ-on-chip for preclinical and biological research**. This session involved talks on microfluidic systems for dental, oral and craniofacial research, 4D tissue models and cancer-on-chip systems. The panel discussion among the leading start-up and industry representatives that followed was simply enlightening.

The prime features of the second day were the platform sessions such as the **Contract Research Organization (CRO) showcase** and a start-up pitch session titled **Future of Alternatives to Animal Models**. These sessions provided a platform for emerging companies to showcase their groundbreaking contributions to the field, fostering collaboration and innovation.

Another main highlight of this conference was the talk session on the **Regulatory guidelines for alternative to animal testing methods**. Governmental representatives from India and Japan along with international industry representatives discussed the current state of regulatory affairs and the potential next steps to better acceptance of 3D Cell Culture techniques.

In addition to the engaging sessions, the conference hosted a vibrant industry exhibition, where leading companies showcased their latest products and services. Attendees had the opportunity to explore cutting-edge technologies and network with industry leaders, further promoting collaboration and knowledge exchange.

Another key aspect of the conference was the poster presentation session, where researchers could share their latest findings and discoveries. The quality of the posters was outstanding, reflecting the depth and breadth of research being conducted in the field of 3D cell culture right from nanobots for tumor studies to bacterial chemotaxis in 3D microfluidic devices to rapid spheroid generation using microfluidics to bioink formulations.

The conference concluded on a high note with an award distribution ceremony honoring the best posters presented during the event. Recognizing outstanding contributions to the field, these awards underscored the commitment to excellence and innovation displayed by the participants.

The International Conference on Advances in 3D Cell Culture proved to be a resounding success, fostering collaboration, sharing knowledge, and advancing the frontiers of 3D cell culture research. The event showcased the commitment of the scientific community to pushing boundaries and finding innovative solutions to address challenges in the field.

For more information about the conference and upcoming events, please visit https://www.3dculture.events/.

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