PharmaLytica 2024, May 30- 31, 2024, HITEX International Convention & Exhibition Center, Hyderabad, India

Day 1 – 30th May2024	
09:00 - 10:00	Registration & Networking
10:00 - 11:00	Welcome Address and Conference Inauguration

Technology Trends	
11:00 - 12:00	**Panel Discussion** - **Maximizing Pharma Productivity through Technological Advancement** ● Optimizing formulation process by implementing process analytical technology (PAT) solutions, continuous manufacturing techniques and big data analytics ● Leveraging AI tools for accelerating drug discovery and development ● Integrating data analytics tools, advanced spectroscopic and chromatographic techniques for rapid raw material characterization and quality assurance, ensuring consistency and purity ● Leveraging predictive analytics and AI-driven demand forecasting to optimize inventory, mitigate stock outs, and prevent supply chain disruptions ● Deploying IoT sensors and blockchain technologies to offer real-time pharmaceutical raw material and finished product tracking and traceability Moderator Panelist **Dr. Andiappan Murugan**, Senior Vice President API R&D, **Troikaa Pharmaceuticals** **Dr. Suresh Pathi,** Head Operational Excellence-Formulation Cluster**, Granules India**

Analytical Advancements	
12-00 -12:20	**Revolutionizing Pharma Labs: Advancing Laboratory Practices through Analytical Innovation** ● How cutting-edge technologies such as high-resolution mass spectrometry, next-generation sequencing, and advanced imaging are revolutionizing drug discovery, formulation, and quality control processes in pharmaceutical laboratories ● Role of AI and ML algorithms in analyzing data, predicting compound properties, and optimizing experiments, speeding-up drug development and assisting in decision-making ● Emphasize the importance of collaboration between chemists, biologists, pharmacologists, and computational scientists for innovative practices in pharma labs ● Discover the implementation of robust data systems and laboratory automation

12:20 - 12:40	Partner Session

Impurities Assessment

12:40 - 01:00	**Nitrosamine Contamination in Pharmaceuticals- Risks, Discoveries, and Industry Response** ● Understanding the health risks associated with nitrosamine exposure and their implications ● Identifying the areas of advancements in analytical techniques for detecting and quantifying nitrosamine impurities ● Insights on quality control protocols, risk assessment strategies, and collaboration with regulatory agencies to ensure product safety
01.00 – 02:00	**Lunch & Networking**

Drugs Repositioning Strategies

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02:00 - 02:20	**Fireside Chat: Maximizing Drug Repositioning: India's Strategic Approach to Exploring New Therapeutic Applications** ● Insights from Case Studies like Remdesivir etc. ● Benefits of drug repositioning and identifying potential drugs for repurpose ● Integrating AI into Drug Repositioning Strategies, approaches methods and consideration ● Identifying opportunities for cross-sector partnerships and data sharing ● Understanding regulatory frameworks to support and facilitate drug repositioning Moderator Panelist **Dr. Tathagata Dutta**, Chief Technology Officer, JODAS EXPOIM Pharmaceuticals **Dr. Srinivas Arutla**, Chief Executive Officer, Zenara Pharma

Quality Integration in Clinical Development

02:20 - 02:40	**Quality excellence in Clinical Trials** ● Quality centric approach in clinical trials- CRO, sponsor and ICH-GCP ● Audits and inspection readiness in clinical trials ● Automation in Clinical quality processes **Dr. Shubhadeep D Sinha**, Senior Vice President Development, **Hetero Group of Companies (Hetero Labs)**

Pharma Packaging

02:40 - 03:30	**Panel Discussion: Adapting to Evolving Pharmaceutical Packaging Standards** ● Understating revised chapters USP 661 and 671 compliance and decoding revisions and Strategies to prepare for and adapt to the revised USP standards ahead of the 2025 deadline ● Overview on technology advancements and how it is facilitating compliance with evolving standards, such as tamper-evident features, serialization, and smart packaging solutions ● Importance of adapting packaging practices to ensure product safety and integrity, addressing concerns such as counterfeit drugs, contamination, and shelf-life extension. ● Growing importance of sustainable packaging solutions in the pharmaceutical industry and how companies are integrating eco-friendly materials and practices to reduce environmental impact ● Insights into future trends and advancements in developing flexible and responsive packaging solutions to anticipate regulatory changes and market needs Moderator Panelist **Pavankumar Chougule,** Head Packaging Development (OSD- Non Sterile), **Dr. Reddy's Laboratories**

03:30 - 03:50	Partner Session

03.50 – 04.10	**Tea - Coffee and Networking Break**

Pharma Machinery

04:10 – 04:30	**Innovations in Pharmaceutical Machinery: Driving Efficiency and Quality in Drug Manufacturing** ● Understating the need of concept of continuous improvement for designing innovative machinery in pharmaceutical manufacturing ● Advancements in leak detection technology for pharmaceutical packaging, including non-destructive testing methods and high-speed inspection capabilities ● Data analytics and machine learning algorithms in optimizing manufacturing processes, predicting equipment failures, and improving overall efficiency

Analytical Instrumentation

04:30 - 05:00	**Exploring cutting-edge technologies revolutionizing drug discovery, formulation, and quality control** ● Role of advanced analytics optimizing personalized medicine ● Leveraging analytics to streamline regulatory processes, accelerate approvals, and bring life-saving therapies to market faster ● Reducing the complexities of data governance, quality assurance, and

	regulatory standards with big data

Day 2 – 31st May2024

API

11:00 -12:00	**Panel Discussion :- Shifting the Gear: Strategies for India's Transition from Generic Manufacturer to API Production Hub** ● Analyzing the need for shifting focus to API manufacturing ● Identifying the innovative approaches and technologies to optimize API manufacturing processes and reduce production costs ● Role of emerging technologies such as continuous manufacturing, green chemistry, and process automation to improve efficiency, sustainability, and cost-effectiveness ● Outlining the regulatory hurdles and propose solutions for streamlining processes ● Exploring opportunities for global collaboration, partnerships, and market access agreements to promote India's API manufacturing capabilities globally Moderator Panelist **Ramkumar Esakki,** Senior Vice President, **Suven Pharma** **Balaram Patro,** CEO**, GRK Research Laboratories**

CRO and CMO

12:00 - 12:20	**Redefining Pharma Partnerships: Maximizing Value through Strategic Collaborations with CMOs and CROs** ● Understanding the dynamics of outsourcing in pharma ● The rise of sophisticated CMOs and CROs with focus on their core competencies of drug discovery and development ● Strategies for managing outsourcing relationships, mitigating potential challenges, and leveraging opportunities for growth

Pharma Manufacturing

12:20 -12:40	**Empowering Pharma Manufacturing with Advanced Analytics** ● A data driven approach by Quality-by-Design (QbD) in continuous manufacturing ● Role of advanced analytics in meeting regulatory standards ● Optimizing ISA-88 Standards for batch control and leveraging advanced techniques for monitoring vital process parameters and detecting deviations **Ramkumar Esakki,** Senior Vice President, **Suven Pharma**

Innovation

12:40 - 01:30	**Panel Discussion: Breaking Boundaries with Innovations in Pharmaceutical** ● AI, Big Data and advanced analytics optimizing personalized medicine and patient-centric care and revolutionizing drug discovery ● Data analytics tool forecasting tomorrow's medicines today ● Analytics driving pharma efficiency streamlining regulatory processes, accelerate approvals, and bring life-saving therapies to market faster ● Blockchain & IoT paving the way for a future of unprecedented discovery and impact ● Need for robust collaboration catalysts from industry leaders, researchers, and regulatory agencies to foster innovation and drive collective progress Moderator: Panelist: **Dr. Tathagata Dutta**, Chief Technology Officer, JODAS EXPOIM Pharmaceuticals **Elayaraja Natarajan,** Vice President - Research And Development, **Lyrus Life Sciences**

01:30 - 02:30	**Lunch Networking Break**

Green Chemistry

02:30 - 02:50	**Flowing Towards Greener Pharma: Catalyzing Sustainable Production with Flow Chemistry** ● Significance of sustainability in the pharmaceutical industry and how flow chemistry differs from traditional batch processes ● Advancements and innovations in flow chemistry to address sustainability goal ● Call to action for continued research and collaboration to drive sustainable practices in the pharmaceutical industry

02:50 - 03:10	Partner Session

Analytical Lab

03:10 - 04:00	**Panel Discussion - Beyond the Lab: Harnessing Analytical Insights for Future-Proof Pharmaceuticals** ● How advanced analytics techniques such as machine learning, computational modeling, and high-throughput screening are enhancing the efficiency and success rate of drug development pipelines ● Analytical insights in ensuring the safety, efficacy, and compliance of pharmaceutical products throughout their lifecycle ● emphasizing the importance of leveraging analytics to meet regulatory

	standards, streamline audits, and mitigate risks

04:00 - 04:30	**Tea - Coffee and Networking Break**

Supply Chain / Cold Chain

04:30 - 04:50	**Building Efficient Pharma Supply Chain and Cold Chain Enhancing Quality and Accessibility Across Production and Distribution** ● Designing efficient sustainable transportation practices to reduce carbon emissions and environmental impact ● Developing robust uninterrupted cold chain quality management systems to monitor and maintain product integrity ● Risk mitigation strategies and contingency planning and building resilience through diversification, redundancy, and flexibility in supply chain operations

Industry Outlook- Pharma Packaging, Labelling, Serialization and Track and Trace

04:50 - 05:00	**Ensuring Safety and Security: Pharma Packaging, Labeling, Serialization, and Traceability Solutions** ● Advancements in pharmaceutical packaging design and its role in ensuring the integrity of products throughout the supply chain ● Importance of accurate and compliant labeling practices focusing on strategies to improve patient safety, regulatory adherence, and information transparency ● Enhancing Supply Chain Visibility Through Serialization and Track & Trace

05:00 - 05:15	**Vote of Thanks**