



SHIMADZU  
8<sup>TH</sup> GLOBAL  
PHARMA  
SUMMIT 2021

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PHARMA DX

# Shimadzu 8<sup>th</sup> Global Pharma Summit Agenda

## Pre-Summit Workflow Stations

1. Shimadzu's Unique Drug Discovery Workflow
2. Shimadzu's Total BioPharma Workflow
3. Shimadzu's Work-From-Anywhere QA/QC Workflow
4. Shimadzu's Advanced Natural Products Workflow
5. Shimadzu's Comprehensive Nitrosamines Workflow
6. Shimadzu's Tech-celeration Solutions for Pharma

## Summit And Panel Discussion

Exordium	Mr. Prem Anand, Shimadzu (Asia Pacific), Singapore
Welcome Address	Dr. Teruhisa Ueda, Shimadzu Corporation, Japan
Digitalization in Pharma: Is it a Promise, an Opportunity, or a Challenge?	Dr. Katalin Ganzler, Gedeon Richter, Europe
Digital Transformation of Drug Discovery	Dr. Muralidhararao Bagadi, Biocon BMS R&D Center (BBRC) Syngene International, India
"iFactory" Project	Dr. Nagatoshi Koumura, National Institute of Advanced Industrial Science & Technology, Japan
Launch of the "Living LC"	
Future of Drug Discovery	Dr. Narayanan Balaji, Jubilant Biosys, India
Advanced Pharmaceutical Ingredient Manufacturing Enabled by QC Lab-on-a-Cart	Dr. Eric Fang, Snapdragon Chemistry, USA
Advancement in Vaccine Manufacturing	Dr. Wenli Hou, Chengdu Kanghua Biological Products, China
Advanced DX and Innovations for Human Health	Mr. Mase Yoshiaki, Shimadzu Corporation, Japan
Panel Discussion: Pharma DX	Moderator: Dr. Prasad KPP, Tessa Therapeutics, Singapore Dr. Venugopala Rao Korlam, Novartis, India Dr. Nagatoshi Koumura, National Institute of Advanced Industrial Science & Technology, Japan Ms. Lathalu Krishnamoorthy, ICM Pharma, Singapore Mr. Masami Tomita, Shimadzu Corporation, Japan
Vote of Thanks	Mr. Tetsuya Tanigaki, Shimadzu (Asia Pacific), Singapore



## Welcome Address

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Dr. Teruhisa Ueda  
President & CEO, Shimadzu Corporation, Japan

A very warm welcome ladies and gentlemen to the Shimadzu 8th Global Pharma Summit 2021.

It is my great honour to welcome you all, from various parts of the world, to this first-ever virtual edition of the Global Pharma Summit.

I used to meet all of you face-to-face once every 2 years at the Pharma Summit, when it was held as a physical event in Singapore during the pre-COVID-19 days. Although the Summit has now gone digital, but I feel that the spirit of our flagship pharma event will reverberate even in this digital version.

The Pharma Summit brings together the most renowned key industry leaders from across the world to network, share and discuss ways in which we all can together Contribute to Society Through Science and Technology.

The Summit is yet another reiteration of our commitment to providing the best in technology and innovations to deal with the most pertinent concerns of our times, whether it is by developing tools to fight pandemics or to address climate change. I am confident that you will feel our commitment towards making this world a better place at every touch point in this event.

Our objective has always been to add long term value to our customers' journeys and help increase efficiency in Pharma. We have seen a rapid acceleration in technology, also called as tech-celeration, and digital adoption across all industries following the global pandemic and Pharma DX is a prime example of that.

We take pride in the importance of working with our customers to support human health and the pharma industry.

We also recognise that society is currently undergoing major changes, especially due to the pandemic, and we are thus continuously improving ourselves to become an even stronger partner of innovation and technology.

In this year's summit, you will experience first-hand, disruptive technologies such as Analytical Intelligence as well as others like Living Instruments, which Shimadzu has pioneered and are transforming the scientific landscape of the world.

Shimadzu is not just an Analytical Instrument Company, but we are also the only company in the world to provide synergistic technologies with medical innovations, thus fuelling Pioneering Partnerships in Advanced Healthcare.

In today's New Normal, we wish that by combining our award-winning technologies along with your expertise and experience, we could work together and address the challenges that the pharma industry faces and Realise our Wishes for the Well-being of Mankind and the Earth. Achieving a sustainable society by creating shared value through solving social challenges is what we always strive for in Shimadzu.

Excellence in Science is not only our motto but a way of life in the Shimadzu Family. And it is in this same spirit that we bring you the Shimadzu 8th Global Pharma Summit 2021. By the way, this is the first global Shimadzu event that we have organised during these times and we are grateful that you all are a part of it. We hope that Pharma DX helps you to contribute to society as well as help you advance in your organisation. We wish you a successful and fruitful time at the Shimadzu 8th Global Pharma Summit 2021.

Thank you.



## Vote of Thanks

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Mr. Tetsuya Tanigaki  
Managing Director, Shimadzu (Asia Pacific), Singapore

Hello Ladies and Gentlemen.

It gives me great pleasure to deliver the Vote of Thanks on behalf of the Shimadzu Family.

My gratitude to all of you pharma leaders for joining us from across the world at our flagship Pharma event, the Shimadzu 8th Global Pharma Summit 2021.

It is my honour to have you as part of the first-ever virtual 3D Pharma Summit. We hope you enjoyed the exciting sessions by our esteemed speakers and industry experts. We would like to thank all the speakers for their insightful talks.

This year the theme is Pharma DX, and I am very happy to see that a wide range of trending topics from AI Deep Learning to Robotics and from Continuous Manufacturing to Living Technology have been covered today.

We hope that the Pharma Summit has provided you with the experience and tools to undertake Digital Transformation in your business.

We look forward to continuously providing you with such ground-breaking innovations and technologies to help you achieve higher productivity and efficiency.

This event is a reflection of our corporate philosophy of “Contributing to Society Through Science and Technology”. And it is with this philosophy that we look forward to partnering you on your Pharma DX journey.

As the Pharma Summit draws to an end, we would like to have a gala dinner like we used to do. While we cannot unite physically, we can still celebrate virtually.

Thank you all for being with us and in making this first-ever virtual pharma summit a reality.

You have made it a grand success.





## Exordium

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Mr. Prem Anand  
Executive Officer and Senior General Manager, Shimadzu (Asia Pacific), Singapore

COVID-19 is still plaguing the planet, with more than half-a-million new infections every day. The pandemic has made Pharma the most important industry in the world today. COVID-19 has not only transformed Pharma, it has also accelerated its Digital Transformation.

Today almost half of all pharma organisations have started adopting digital transformation.

Dear Ladies and gentlemen, keeping this in mind, I would like to welcome you all to the Shimadzu 8th Global Pharma Summit 2021. This year the summit is themed Pharma DX to help you stay ahead in your digital transformation journey.

This 8th edition is the first-ever 3D Futuristic Global Pharma Summit. This Pharma Summit brings together the most renowned key industry leaders from across the world to share and discuss the challenges, opportunities, advancements and the future of Pharma.

This year we have speakers from all over the world including Japan, US, China, Europe and we also have more than 2000 registered participants from every corner of the globe, making this the largest Pharma Summit ever.

In the next 2 years, Pharma 4.0 will boost production by up to 200%, reduce error by 65% errors and reduce downtime by 90%. Our Pharma DX initiative will surely make these statistics a reality.

We in Shimadzu have been pioneering a wide variety of futuristic innovations ranging from Analytical Intelligence to Living Technologies and Deep Learning Algorithms for the pharma industry.

Since 1875, we have strived to meet the needs of all our customers across the world and this year is no exception.

Let's revolutionise the way you work and begin your digital success in the pharma industry together.

Thank you very much.

# WORKFLOW STATIONS



## Unique Drug Discovery Workflow

Drug discovery can be a tedious process, but the process can be sped up with Shimadzu's award-winning Nexera Series, EDX-7000, and innovative software! Explore the end-to-end solutions here to accelerate your progress in drug discovery.



## Total BioPharma Workflow

Extensive and accurate characterization of large molecules is critical in developing novel biotherapeutics for disease treatment. While this task can be daunting, Shimadzu's suite of analytical solutions will eliminate the bottlenecks hindering your next breakthrough.



## Work-From-Anywhere QA/QC Workflow

It's time to reimagine informatics solutions as digitalization revolutionizes the pharmaceutical industry. We will be sharing tips on implementing Electronic Lab Workflows, Digital Signatures, Remote Connectivity, and more in QA/QC laboratories to enable users to Work From Anywhere!



## Advanced Natural Products Workflow

Let's get inspired by Nature to discover therapeutic ingredients! This process isn't always easy, mainly due to the vast pool of data generated from untargeted screening. Shimadzu provides robust and fully integrated solutions from discovery to purification, confirmation, and quality control.



## Comprehensive Nitrosamines Workflow

During the drug manufacturing process, nitrosamine impurities can be introduced at almost any stage as they can be found in recovered solvents, reagents, catalysts, or even packaging. Ensure the safety and efficacy of drugs with Shimadzu's solution for pharmaceutical impurities analysis.



## Tech-celeration Solutions for Pharma Workflow

The current challenges require new and novel solutions in compliance to regulations. Herein lies the key to tech-celeration — that is, technologies which accelerate your progress in the pharmaceutical industry. Keep ahead in this field with high productivity, accuracy, and reliability!

# CAPTIVATING PRESENTATIONS FROM INDUSTRY EXPERTS



## **Digitalization in Pharma: Is it a Promise, an Opportunity, or a Challenge?**

Dr. Katalin Ganzler

Analytical Consultant Development Directorate, Gedeon Richter Plc., Hungary

Digitalization may be a welcoming change for the pharmaceutical industry to relieve the growing challenges such as supply chain complexity, cost, regulatory pressure, and more. Dr. Katalin will be discussing how the accelerating rise of digital technologies will give the pharmaceutical industry today a stronger competitive edge.

## **Digital Transformation of Drug Discovery**

Dr. Muralidhararao Bagadi

Senior Group Leader, Biocon BMS R&D Center (BBRC), Syngene International Ltd., India

Digitalization is set to transform Drug Discovery towards higher efficiency, productivity, and accuracy. Dr. Muralidhararao will cover a comprehensive range of aspects, including LC method development, metabolomics workflow, the use of deep-learning technologies in analysis, and more.



## **"iFactory" Project**

Dr. Nagatoshi Koumura

Team Leader, National Institute of Advanced Industrial Science & Technology, Japan

Continuous manufacturing is the rising trend in the pharmaceutical industry to achieve lower costs, higher productivity, and better product quality. Dr. Koumura will be sharing how the future of continuous manufacturing can become a reality at a commercial scale through the "iFactory" project containing flexible modules of "iCube".



## **Future of Drug Discovery**

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Dr. Narayanan Balaji  
Principal Scientist, Jubilant Biosys Limited, India

The future of Drug Discovery will be shaped by high throughput analysis and data-driven decisions. Dr. Narayanan will be providing valuable insights from his years of experience in analytical method development to talk about high-throughput screening strategies, the use of machine learning tools, and digitalization technologies to translate data into discoveries.

## **Advanced Pharmaceutical Ingredient Manufacturing Enabled by QC Lab-on-a-Cart**

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Dr. Eric Fang  
Chief Scientific Officer, Snapdragon Chemistry, Inc., USA

Continuous manufacturing is one of the emerging key trends gaining strong momentum in the pharmaceutical industry today. Dr. Fang will be sharing his innovative concepts of how the QC Lab-On-a-Cart, which he created, can enable real-time analysis for autonomous reaction optimization and reaction monitoring.



## **Advancement in Vaccine Manufacturing**

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Dr. Wenli Hou  
Vice President, Chengdu Kanghua Biological Products Co. Ltd., China

The production of biological products and vaccines at a large scale can face multiple technical challenges. Dr. Hou will be sharing crucial industry insights on how technological advancements in incubation and purification processes can make a difference in producing vaccines with high safety, efficacy, and purity.



# THOUGHT-PROVOKING PANEL DISCUSSION

Learn from our industry experts and gain valuable insights about the impact of digital transformation in the pharmaceutical industry. With our diverse range of speakers, you will get a holistic perspective on the field's key trends and latest developments.



## **Dr. Prasad KPP (Moderator)**

Vice President, Site Leader, Tessa Therapeutics Ltd., Singapore

Dr. Prasad is our moderator for this highly anticipated panel discussion. Dr. Prasad's expertise lies in drug production and formulations, be it small molecules or large biologics drug substances. He will be sharing his thoughts about the wave of the digital revolution within the pharmaceutical industry.



## **Dr. Venugopala Rao Korlam**

Head - Analytical Development Unit 1, Novartis Healthcare Pvt. Ltd., India

Specializing in innovation and development of new technologies or novel software, Dr. Venugopala works on expanding technical capabilities for higher productivity. Drawing from his wealth of experience, he will be sharing critical insights on how new technologies will transform drug discovery.



## **Ms. Lathalu Krishnamoorthy**

Quality Manager, ICM Pharma Pte Ltd, Singapore

With the ever-evolving regulations, Ms. Krishnamoorthy specializes in helping organizations step up and meet the increasingly stringent requirements with complete compliance. In the panel discussion, she will be sharing her thoughts on the role of medium-sized companies today in the pharmaceutical industry.



## **Mr. Masami Tomita**

Deputy General Manager, Shimadzu Corporation, Japan

Mr. Tomita is well-versed in the current challenges and the latest analytical development trends in the pharmaceutical field. To meet the rising demand for digitalization, he will be sharing Shimadzu's new launch of the first-ever Mechatronics Business unit in the industry and how this forward-looking business unit can successfully drive the digital transformation in the industry.



## **Dr. Nagatoshi Koumura**

Team Leader, National Institute of Advanced Industrial Science & Technology, Japan

With surging interest in continuous manufacturing to modernize the pharmaceutical industry, Dr. Koumura brings us a step closer to this future through the "iFactory" concept. He will illustrate the use of the modules, "iCube", in constructing the manufacturing system to synthesize desired products.



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