

AI IN PHARMA

S U M M I T

Data-Driven, People-Powered: Unlocking the Potential of AI

October 15th, 2020 | EDT Timezone

Networking Available All Day

9:00am - 5:30pm

As the main agenda progresses throughout the day, you will have the choice of listening in to / participating in the live content or spend more of your time networking with your peers.

Here is how you will be able to achieve this, outside of the networking sessions on the agenda

- **See who's in the room** - you will be able to message all live attendees and connect with those who respond.
- **Schedule 1-2-1 video calls** with your connections at any time that suits you.
- **Open Networking** - think of this as the event lobby where you can replicate those all-important "water-cooler" moments.

You will be able to hop seamlessly between networking and on-going agenda sessions at any point.

With networking available all day, this will provide you with even more opportunities to meet your potential future partners and collaborators.

Thursday, October 15th 2020

8:00am Conference Platform Opens

The conference platform opens before the agenda starts, giving you time to plug the presentations, panels and discussions into your agenda for the rest of the day. This also gives you plenty of time to get familiar with the platform.

Location: Stage

9:00 am Chair's Opening Remarks

- How has the industry moved forward since AI in Pharma 2019?
- What should we expect to have learned by the end of AI in Pharma 2020?

Brian Martin, Head of AI, **AbbVie**

9:10 am Keynote Presentation: **Accelerating Transformation with Machine Learning**

- Explore the uses of ML in R&D, clinical development, manufacturing & supply chain, commercialization, and patient support

Shez Partovi, MD, Worldwide Lead Healthcare, Life Sciences and Genomics, **AWS**

9:35am Wellness Break

Get-up and have a stretch before the next session begins.

Location: **Sessions**

9:40 am Panel Discussion - **Is AI the Silver Bullet in Drug R&D?**

Covid-19 has sent shockwaves through the world, and has greatly impacted drug research and development. As we navigate through our “New normal”, crucial questions must be answered to find out how AI can help. Hear exclusive insights from industry experts who are leading the charge with AI in their organizations.

- What progress has been made in the potential and foothold of AI in drug R&D over the last 12 months?
- What recent applications of AI have been particularly pivotal in the industry's progress?

- How can AI help accelerate drug R&D through virtual trials, and what other applications does AI have against the Covid-19 pandemic?
- What are the key challenges with leveraging and embedding AI, and how are we trying to address these?
- Are we now on the cusp of an AI revolution in pharma, and where do you think the most progress will be seen in the next 12 months?
- What do we hope to achieve by the end of this Summit?

Ryan Copping, Global Head of Personalized Healthcare Analytics, **Genentech**

José Duca, Global Head, Computer-Aided Drug Discovery, **Novartis**

Reza Olfati-Saber, Global Head of AI and Deep Analytics, **Sanofi**

Lihua Yu, President, Chief Data Science Officer, **H3 Biomedicine**

10:10 am **Optional Break**

Catch-up on emails, let the dog out, brew some more coffee... use this time to take care of regular day-to-day life.

Location: **Sessions**

10:10am **Open Q&A with Speakers**

This is your chance to pose your burning questions to the expert speakers from the previous panel.

Pose your questions directly to the speakers

Ryan Copping, Global Head of Personalized Healthcare Analytics, **Genentech**

José Duca, Global Head, Computer-Aided Drug Discovery, **Novartis**

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Location: Networking

10:30am Speed Networking

In the purpose-built Networking area, get ready to expand your network through randomly assigned 1 on 1 quick-fire video meetings. You can choose who you want to “connect” with and then set-up 1-2-1 in-depth catch-up’s throughout the rest of the event.

This function ensures that you don’t meet the same person more than once, allowing you to meet as many fellow attendees as you desire.

Your future collaborators or partners could be just one click away!

Location: Stage

10:50am Finding Signal in the Noise: Addressing Challenges of Applying AI to Drug Discovery

Melissa Landon, Vice President, Chief Strategist, **Cyclica**

11:15am Wellness Break

Get-up and have a stretch before the next session begins.

Location: **Sessions**

11:20am Interactive Roundtable - **Capturing the Promise of Machine Learning: Overcoming Key Challenges to Accelerate Drug Discovery**

There is no question that AI is already having a positive impact in many phases of the drug discovery and development pipeline, but there are also still many challenges to fully realizing the anticipated potential of AI.

This roundtable will deep-dive into the most urgent functional gaps hindering drug discovery teams from fully capturing the promise of machine learning to accelerating early-stage drug discovery for critical diseases. We will look at recent case studies and explore how key aspects such as data, algorithms, and molecular descriptors can be optimized to improve success.

Areas of discussion include:

- What are the highest priority opportunities, blockers and risks?
- How can we improve data access, preparation, management and diversity to support algorithm training and model validation to better predictions?
- Is there overlooked potential in optimizing molecular fingerprints?
- What is the next big emerging frontier in algorithmic approaches?
- Are there different challenges in development of novel molecules versus drug repurposing efforts?
- What impact are partnerships and collaborative projects having on advancing progress? What challenges are they facing?

Actively or passively participate in this discussion

Todd Wills, Managing Director, **CAS Services**

Kathy Gibson, Innovation & Investment Advisor, **Pistoia Alliance**

Pat Walters, SVP Computation, **Relay Therapeutics**

Govinda Biseti, Head of Computational Chemistry, **Biogen**

12:05pm Wellness Break

Get-up and have a stretch before the next session begins.

Location: **Stage**

12:10 pm Presentation: **AI and Machine Learning at Arrakis Therapeutics**

- A look at how ML can be applied to unlock previously inaccessible biology in the pursuit of drugging RNA with small molecules
- Discover how Arrakis Therapeutics is developing transformative medicines for patients.

Donovan Chin, Director of Computational Drug Discovery, [Arrakis Therapeutics](#)

12:30 pm Wellness Break

Get-up and have a stretch before the next session begins.

12:35 pm Presentation: **What are the Key Lessons Being Learned During the Deployment of AI at Scale?**

- How to overcome the key challenges of getting colleagues from other departments on board with AI approaches
- How is AI making waves in developing, commercial, manufacturing and more.

Nimit Jain, Head of Data Science, ACOE, **Novartis**

12:55 pm

Lunch

Finally, lunch at a conference that is completely your choice!

Use this extended break to have your regular lunch, spend time with your family, and give your brain a break. Recharge for the afternoon session.

The AI in Pharma includes an extended break in the middle to give you ample time for lunch and another chance to catch-up on the day job. Or if you have time, you can use this break for 1-2-1 meetings or open networking.

Location: **Expo Area**

2:00 pm **Tour of Expo**

Take a tour of the virtual Expo and interact with partners of AI in Pharma to understand more about their services.

Location: **Stage**

2:20pm **Presentation by Atomwise**

Henry Van Den Bedem, Principal Scientist, **Atomwise**

2:45pm Wellness Break

Get-up and have a stretch before the next session begins.

2:50pm Presentation: **Shaping the Future of Pharma and Healthcare with Bayesian AI**

- As we understand the limits of Machine Learning, Bayesian AI brings new possibilities of how data can be analyzed
- How can Pharma and Healthcare benefit from a technology that generates new knowledge from data?
- We will discuss use cases in which Bayesian AI was successfully applied to Clinical Development and Health IT

Leonardo Rodrigues, Vice President, AI & Machine Learning, **BERG Health**

3:10pm Wellness Break

Get-up and have a stretch before the next session begins.

3:15pm Presentation: **Expedite Rare Disease Diagnosis and Improve Patient Outcome in NICU/PICU**

- I will cover what is possible today in digital diagnostic and treatment options for one of the most vulnerable patient population
- I will describe the playbook and its key elements (2 engines, a blueprint and supporting ecosystem)

Sebastien Lefebvre, Senior Director, Data Sciences, **Alexion Pharmaceuticals**

3:35pm **Networking Break**

Visit the networking area to connect with your peers from across pharma and biotech.

Location: **Sessions**

3:55 pm Panel Discussion - **The Elephant in the Room: Dealing with the Data**

Arguably the biggest hurdle facing this industry, the question of data is one that has given most folks in the industry a headache at one point or another! This panel will dig into the key questions facing our use and analysis of data, discuss the burning data questions in our minds, and how to best move forward to find the solutions.

- What key data hurdles need overcoming before AI's potential can be fully realized?
- How can we build trust in our AI approaches so users apply the predictions with confidence?
- How do Big Data and AI relate - what are the touchpoints between the two?
- What structured parameters do we need to set ourselves to define what "Good" and "Bad" data is?
- How can pre-competitive data sharing help with our data issues?
- How do we effectively dissect the massive amounts of data produced by AI?
- What do we hope the situation with regards to data looks like by the AI in Pharma Summit 2021?

Gayle Wittenberg, Senior Director, Neuroscience Data Science, **Janssen**

Camilo Zapata, Senior Director, Advanced/Predictive Analytics, **Alkermes**

Kausheek Nandy, Director, Head of Central Data Science, Americas, **Boehringer Ingelheim**

John Reynders, Chief Data Scientist, **Latent Strategies, LLC**

Location: **Networking**

4:25pm - 5:30pm **Virtual Drinks**

Share a virtual drink with old friends or new connections. Via 1-2-1 video calls or the Networking function, this is your chance to casually interact with the rest of the AI in Pharma industry.

Location: **Sessions**

4:25pm - 4:45pm **Open Q&A with Speakers**

This is your chance to pose your burning questions to the expert speakers from the previous panel.

Pose your questions directly to the speakers.

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5:30pm Close of The AI in Pharma Summit