

# Lab of the Future

## Community of Experts

The Pistoia Alliance relaunched the Lab of the Future Community in Q1 2024 to support the growing need for the pharma industry to work together to deliver a clear vision, strategy, and roadmap to guide laboratory investments and accelerate the adoption of disruptive technologies.

With the support of AstraZeneca, several roundtable discussions took place in H1 2024:

### January 2024

Representatives of 14 member companies discussed the Community Governance, their common Lab of the Future Goals and the financial contribution needed for running the community in 2024.

(AstraZeneca, Bayer, Curlew Research, EPAM, J&J, Merck & Co, Novartis, Novo Nordisk, Pfizer, Takeda, Thermo Fisher Scientific, Zifo RnD Solutions, GSK, CSL Behring)

### February 2024

Representatives of 12 member companies discussed their challenges in 5 Lab of the Future Themes: Data, Lab Experience, Emerging Tech, Automation and Digital Labs.

(AstraZeneca, Arcondis, Bayer, Benchling, Curlew Research, Merck & Co, Novo Nordisk, Pfizer, Takeda, Thermo Fisher Scientific, UCB, Vertex)

### March 2024

**Data Workstream session** – moderated by Csilla Csank, Takeda.

Representatives of 15 member companies discussed their challenges and pre-competitive project ideas around: data capture, standardization, FAIR compliance, data integration and connectivity, data modernization and legacy systems, data analysis and advanced analytics.

(AstraZeneca, AbbVie, Arcondis, Bayer, Benchling, EPAM, GSK, Kyowa Kirin, Merck Healthcare, Nagarro, Pfizer, Takeda, Thermo Fisher Scientific, UCB, Vertex)

### April 2024

**Lab Experience Workstream** – moderated by Simon Fortenbacher, GSK.

Representatives of 9 member companies discussed the problems they would like to solve, their challenges and pre-competitive project ideas around equipment and technology, workflow and process efficiency, data management and analysis, regulatory compliance, collaboration and communication, training and skill development, work environment and safety, resource allocation and budgeting, change management.

(AstraZeneca, Arcondis, GSK, Nagarro, Novartis, Pfizer, Takeda, Thermo Fisher Scientific, Vertex)

**Emerging Tech Workstream** – moderated by Scott Wilkins and Robert Albert, AstraZeneca.

Representatives of 9 member companies announced their attendance at the moment when this poster was created. Among the topics of interest: adoption of emerging tech, digital twins, human on a chip, next generation networks, LLM/Gen AI assisted analyses, from physical lab to interactive lab.

(AstraZeneca, AbbVie, Arcondis, Bayer, EPAM, GSK, Kyowa Kirin, Takeda, Thermo Fisher Scientific)

**Automation Workstream** – moderated by Anca Ciobanu, Pistoia Alliance.

Representatives of 10 member companies announced their attendance at the moment when this poster was created. Among the topics of interest: lab automation, robotics, combining lab automation and robotics with in silico algorithms based decision making at scale.

(AstraZeneca, AbbVie, Bayer, GSK, Nagarro, Novartis, Pfizer, Takeda, Thermo Fisher Scientific, Vertex)

**Digital Labs Workstream** – moderated by Martin Clausen, Bayer.

Representatives of 13 member companies announced their attendance at the moment when this poster was created. Among the topics of interest: Gen AI/ML ready data and meta data, Data Science at scale, Analytical data store, digital twins, Lab of the Future system landscape, the connection between the physical and digital lab.

(AstraZeneca, AbbVie, Arcondis, Bayer, EPAM, GSK, Kyowa Kirin, Nagarro, Novartis, Novo Nordisk, Takeda, Thermo Fisher Scientific, Vertex)

## Getting involved

The Pistoia Alliance is looking for additional member companies to fund the Lab of the Future activities in 2024 and join the Steering Committee. The Steering Committee is the one deciding the themes of interest for 2024, the project workstreams and activities to be conducted.

Would you like to join?

Let us know at: [anca.ciobanu@pistoiaalliance.org](mailto:anca.ciobanu@pistoiaalliance.org)

### Key Information

Author: Anca Ciobanu

Contact details:

[anca.ciobanu@pistoiaalliance.org](mailto:anca.ciobanu@pistoiaalliance.org)

Website:

<https://www.pistoiaalliance.org/community/lab-of-the-future/>

Key project info resources

### Sponsors 2024



The Lab of the Future Community needs sponsors for running its activities.

### Resources

#### Data Workstream



#### Lab Experience Workstream



#### Emerging Tech Workstream



#### Automation



#### Digital Labs



### Pistoia Alliance: Lowering barriers to R&D innovation

The Pistoia Alliance is a global, not-for-profit alliance of life science companies, vendors, publishers, and academic groups that work together to lower barriers to innovation in R&D.

Our members collaborate as equals on open projects that generate significant value for the worldwide life science community.

[www.pistoiaalliance.org](http://www.pistoiaalliance.org)

[@pistoiaalliance](https://twitter.com/pistoiaalliance)

