

### Key Information

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The Pistoia Alliance relaunched the Lab of the Future Community 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. The Lab of the Future Steering Committee has been established and includes 9 pharma representatives.

#### Activities:

**January 2024.** 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.** 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)

**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)

**Lab Experience session** – moderated by Simon Fortenbacher, GSK. 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. (AstraZeneca, Arcondis, GSK, Nagarro, Novartis, Pfizer, Takeda, Thermo Fisher Scientific, Vertex)

**Emerging Tech session** – moderated by Scott Wilkins and Robert Albert, AstraZeneca. 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 session** – moderated by Anca Ciobanu, Pistoia Alliance. 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 session** – moderated by Martin Clausen, Bayer. 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)

**September. Kick of meeting with the newly formed Lab of the Future Steering Committee** having representatives from: GSK, Novartis, Takeda, Merck Healthcare, Novo Nordisk, CSL, MSD, Johnson & Johnson, Vertex Pharmaceuticals.

**November.** Steering Committee discussion focused on the strategic goals, and setting priorities for upcoming workstreams and projects.

#### Getting involved

The Pistoia Alliance is looking for additional member companies to fund the Lab of the Future activities 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?

### Pistoia Alliance: Collaborating to lower 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.

### Sponsors/ Steering



Thanks to our funders, for all the contributions, for their time and expertise. Without their help, this community wouldn't exist or collaborate.

### 2024 Resources

Data Workstream    Lab Experience



Emerging Tech.



Automation



Digital Labs

