

Artificial Intelligence (AI) and Automated Laboratories for Biotechnology: Leveraging Opportunities and Mitigating Risks—A Workshop (Hybrid)

Wednesday April 3rd (9am-4:30pm ET) - Thursday April 4th (9am-3:30pm ET)

AGENDA AT A GLANCE

Purpose and Workshop Goals

- Present state of the art cross-sector applications of AI and automated laboratories for biotechnology
- Discuss opportunities and challenges for using AI and automated labs to prevent the misuse of biotechnology
- Explore methods for assessing the costs and benefits of investing in (or not investing in) the development and adoption of technologies, including those for national security and for other (e.g., commercial) objectives
- Discuss methods and information for forecasting the development of technologies (including AI and automated labs), and for assessing those technologies' current and future capability gaps
- Explore drivers of innovation for technologies, including technical, financial, policy, and other drivers

DAY ONE: WEDNESDAY, APRIL 3RD

9:00–9:15am	Opening Remarks from the National Academies and Workshop Planning Committee
9:15–9:30	Opening Remarks from the National Security Commission on Emerging Biotechnology
9:30–11:00	SESSION 1 AI and Automated Labs for Biotechnology: Exploring Cross-Sector Applications
11:00–11:40	Breakout Group Discussion
11:40–12:15pm	Lunch Break
12:15–1:00	Breakout Report-Backs and Session 1 Panel Discussion
1:00–1:50	SESSION 2 AI and Automated Laboratories: Preventing the Misuse of Biotechnology
1:50–2:00	Break
2:00–2:45	Session 2 Panel Discussion
2:45–4:15	SESSION 3 Costs and Benefits of Investing in (or not Investing in) the Development and Adoption of Technologies
4:15–4:30	Day 1 Summary and Look-Ahead to Day 2

DAY TWO: THURSDAY, APRIL 4TH

9:00–9:05am	Day 2 Welcome
9:05–10:00	Keynote Address and Discussion with Nobel Laureate Dr. Frances H. Arnold
10:00–11:00	SESSION 4: Forecasting Developments and Assessing Current and Future Capability Gaps
11:00–11:10	Break
11:10–12:00pm	Breakout Group Discussion
12:00–12:45	Lunch Break
12:45–2:00	SESSION 5: Drivers of Innovation
2:00–2:10	Break
2:10–2:45	Breakout Group Discussion: Envisioning an AIxBio Grand Challenge
2:45–3:15	Breakout Report Backs followed by Final Comments from Workshop Participants
3:15–3:30pm	Workshop Summary and Conclusion

More information, including event registration, can be found on the workshop website [here](#).