



RAIA AIxBiosecurity Recommended Resources

I. LLM Bio Evals / Capabilities

- [Toward Comprehensive Benchmarking of the Biological Knowledge of Frontier Large Language Models | RAND](#)
- [Dual-Use AI Capabilities and the Risk of Bioterrorism | GovAI](#)
- [ABC-Bench: An Agentic Bio-Capabilities Benchmark for Biosecurity](#)

II. Mechanistic Interpretability on Bio Models

- [Finding the Tree of Life in Evo 2](#)
- [Mechanistic Interpretability of Biological Foundation Models — LessWrong](#)
- [\[2602.17532\] Systematic Evaluation of Single-Cell Foundation Model Interpretability Reveals Attention Captures Co-Expression Rather Than Unique Regulatory Signal](#)
- [\[2603.02952\] Sparse autoencoders reveal organized biological knowledge but minimal regulatory logic in single-cell foundation models: a comparative atlas of Geneformer and scGPT](#)

III. DNA Synthesis Screening

- [Top AI CEOs Call for Law Protecting Against Biological Weapons - WSJ](#)
- [In Support of Mandatory Nucleic Acid Synthesis Screening and Recordkeeping](#)
- [Beyond sequence similarity: toward function-based screening of nucleic acid synthesis](#)
- [Assembling unregulated DNA segments bypasses synthesis screening: regulate fragments as select agents | Nature Communications](#)



-
- [The Limits of Sequence-Based Biosecurity Screening Tools in the Age of AI-Assisted Protein Design](#)
 - [\[2403.14023\] A system capable of verifiably and privately screening global DNA synthesis](#)

IV. Metagenomic Surveillance

- [Mapping America's Biosurveillance | IFP](#)
- [Metagenomic sequencing of composite airplane wastewater for surveillance of emerging viruses](#)
- https://www.rand.org/content/dam/rand/pubs/research_reports/RR3200/RR3263-1/RAND_RRA3263-1.pdf

V. GCBR Pandemic Preparedness

- <https://www.gcsp.ch/sites/default/files/2024-12/securing-civilisation-against-catastrophic-pandemics-gp-31.pdf>
- [Accelerating Vaccine Development: The 100 Days Mission - Principles and Practice of Emergency Research Response - NCBI Bookshelf](#)
- [Essential Medicines Supply Chain and Manufacturing Resilience Assessment May 2022](#)
- [Technologies to Address Global Catastrophic Biological Risks](#)
- [THE APOLLO PROGRAM FOR BIODEFENSE](#)

VI. AI Biology Uplift

- [MEASURING MID-2025 LLM-ASSISTANCE ON NOVICE PERFORMANCE IN BIOLOGY](#)
- [Safety fears as scientists make first viruses designed by AI | Science | The Guardian](#)
- [Exclusive: AI Outsmarts Virus Experts in the Lab, Raising Biohazard Fears](#)

VII. Mirror Life

- [The Dangers of Mirrored Life](#)
- [James Smith on why he quit everything to work on a biothreat nobody had heard of | 80,000 Hours](#)



VIII. Engineered Pathogens

- [A Machine Learning Method for Genome Engineering Design Tool Attribution - PubMed](#)

IX. Non-Pharmaceutical Interventions / Biohardening

- <https://blueprintbiosecurity.org/wp-content/uploads/2026/03/Blueprint-for-Far-UVC-V1.0-9.22.25-1-5.pdf>
- [Propylene glycol inactivates respiratory viruses and prevents airborne transmission | EMBO Molecular Medicine | Springer Nature Link](#)
- [Respiratory PPE as Day-Zero Defense Against Biothreats - The Council on Strategic Risks](#)

X. Information Hazards

- [Information hazard - Wikipedia](#)
- [Anonymous answers: How can we manage infohazards in biosecurity? | 80,000 Hours](#)
- [Living Framework and Guidelines for Information Disclosure in Biosecurity](#)

XI. Key Resources

- [Biosecurity Course | BlueDot Impact](#)
- [The Four Pillars: A Hypothesis for Countering Catastrophic Biological Risk](#)
- Other Reading Lists / Resources
 - [Bakerlee biosecurity reading list \[public\]](#)
 - [additional biosecurity readings](#)
 - [A Biosecurity and Biorisk Reading+ List — EA Forum](#)
 - [Awesome Public Biosecurity Datasets & Resources · GitHub](#)