

The White House Office of Science & Technology Policy *Health & Life Sciences*

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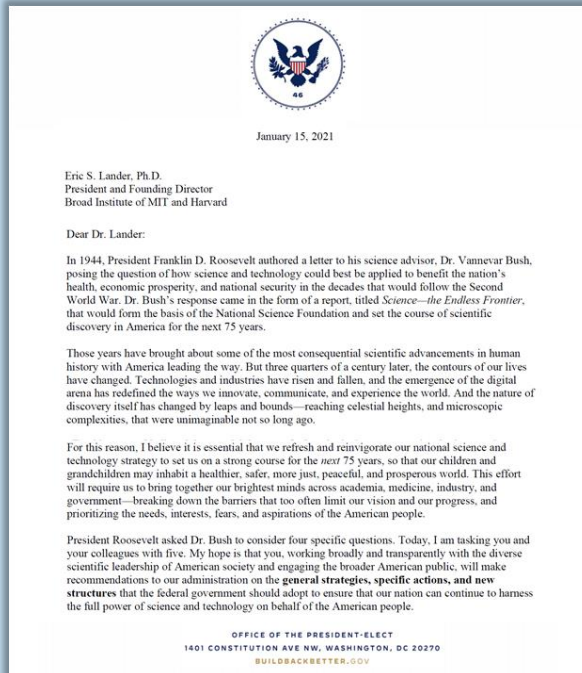
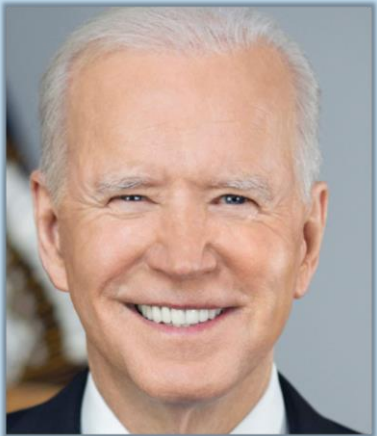
March 2022



THE WHITE HOUSE
WASHINGTON



President Biden's Letter to OSTP



Alondra Nelson, PhD
OSTP Director

“...essential that we refresh and reinvigorate our national science and technology strategy to set us on a strong course for the next 75 years, so that our children and grandchildren may inhabit a healthier, safer, more just, peaceful, and prosperous world.”

Five (5) focus areas

- Pandemic
- Climate
- Economy
- Equity
- Workforce

OSTP Health & Life Sciences Division



Carrie Wolinetz, PhD
Deputy Director

Equity
Health, S&T

Biopreparedness:

- Pandemic Readiness
- Antimicrobial Resistance

Health Systems and Health Equity:

- Telemedicine/Community Health
- EHRs - Public Health System

Accelerating Innovation to Patients:

- ARPA-H - Clinical Trials
- Cancer

Biomanufacturing:

- Incentivize and support data, infrastructure for life sciences industries of the future

Agriculture:

- Nutrition

Life Sciences Research Community:

- Doctoral Education

Other topics:

- Biosafety/biosecurity
- Maternal mortality; mental health; opioid crisis; social determinants of health; AI/ML & healthcare biases
- Rare diseases; pediatric therapies; regulatory streamlining
- Competitive innovation and biotech in agriculture; climate change intersection
- GDPR and data access issues; workforce; sexual harassment; discrimination
- Gene/germline editing; gene drives; chimeras/neural chimeras; privacy challenging technologies/data; social media and public health

Pandemic Preparedness Plan



American Pandemic Preparedness: Transforming Our Capabilities

September 2021



I. Transform our Medical Defenses

1. Vaccines
2. Therapeutics
3. Diagnostics



II. Ensure Situational Awareness

4. Early-Warning Systems
5. Real-time Monitoring



III. Strengthen Public Health Systems

6. U.S. Public Health
7. Global Health



IV. Build Core Capabilities

8. Personal Protective Equipment
9. Stockpiles and Supply Chains
10. Prevent Catastrophic Biological Events
11. Regulatory Improvement



V. Manage the Mission

12. Mission Control

Life Science Innovation Focus



- **Cancer** – President Biden has challenged the medical & research community to “End Cancer as we know it”; recently revitalized Cancer Moonshot
- **Biomanufacturing** – President Biden has pledged to grow the bioeconomy and bio-based manufacturing
- **S&T Prioritization** – Biden-Harris Administration proposed one of the largest S&T budget increases in history, with a focus on improving human health

*Life science focus and investment will make the US and world **safer & healthier**, and ensure US **competitive global leadership** in S&T innovation*



Stakeholder Engagement *Health & Life Science Priorities*

Thank You!



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