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RE: RFI on Federal Priorities for Information Integrity Research and Development

The American Society for Biochemistry and Molecular Biology is an international nonprofit scientific and educational organization that represents more than 12,000 students, researchers, educators and industry professionals. The ASBMB strongly advocates for strengthening the science, technology, engineering and mathematics (STEM) workforce, supporting sustainable funding for the American research enterprise, and ensuring diversity, equity and inclusion in STEM.

ASBMB members receive funding from federal agencies to conduct their scientific research. The three federal agencies that fund most ASBMB members are the National Institutes of Health, the National Science Foundation and the Department of Energy. It is through this lens of representing researchers funded by these agencies that the ASBMB provides the below recommendations to improve the [U.S. Global Change Research Program](#) 2031 strategic plan.

contains the correct strategic pillars needed to address climate and global changes and to improve federal agency coordination. In particular, the ASBMB supports the following

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Incorporating transdisciplinary research approaches

Efforts to increase understanding of community-level needs, impacts and responses as it relates to climate and global change risks

strategic plan must include the creation of a research infrastructure network that will align federal agencies' responses to emerging infectious diseases. The ASBMB urges USGCRP to refer to the [Pandemic Preparedness Plan](#), the goals of which are to:

1. Systematically **characterize pathogens of concern** and increase research and surveillance to identify threats before they emerge
2. **Shorten timelines** between pathogen emergence or outbreak onset and authorization/approval of candidate diagnostics and medical countermeasures, such as therapeutics and vaccines
3. **Bridge or eliminate existing gaps** in research, infrastructure and technology and expand clinical and clinical testing capacity.

A research infrastructure network connecting all relevant federal agencies will need a set of shared goals if it is to ensure cooperation, information sharing and synergy. We recommend adoption of the NIAID Pandemic Preparedness Plan goals. Doing so will ensure a speedier response to emerging infectious diseases and will position the U.S. to better handle emerging threats.

Recommendation 2: Apply the One Health approach to scientific research, including basic research.

[Research has demonstrated](#) the negative impacts that climate change has on the environmental factors that determine human health, such as clean air, food security and safety, water quality and pathogens.

The One Health approach is [defined by the Centers for D](#)

