

119TH CONGRESS
1ST SESSION

H. R. 5193

To direct the Chairman of the Joint Chiefs of Staff to conduct a feasibility study on incorporating militarily-relevant applications of emerging biotechnology into wargaming exercises, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

SEPTEMBER 8, 2025

Mr. KHANNA (for himself, Mr. GARAMENDI, and Mr. DAVIS of North Carolina) introduced the following bill; which was referred to the Committee on Armed Services

A BILL

To direct the Chairman of the Joint Chiefs of Staff to conduct a feasibility study on incorporating militarily-relevant applications of emerging biotechnology into wargaming exercises, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. FEASIBILITY STUDY ON INCORPORATING MILI-**
4 **TARILY RELEVANT APPLICATIONS OF**
5 **EMERGING BIOTECHNOLOGY INTO**
6 **WARGAMING EXERCISES.**

7 (a) IN GENERAL.—The Chairman of the Joint Chiefs
8 of Staff shall conduct a review to determine the feasibility

1 and advisability modifying the design of wargaming exer-
2 cises to ensure that such exercises incorporate militarily
3 relevant applications of emerging biotechnology.

4 (b) ELEMENTS.—In conducting the review required
5 under subsection (a), the Chairman of the Joint Chiefs
6 of Staff shall take into account—

7 (1) biotechnology-enabled enhancements that
8 improve the cognitive and physical performance of
9 warfighters;

10 (2) biotechnology-enabled chemicals and mate-
11 rials intended to provide a strategic advantage on
12 the battlefield;

13 (3) adversaries' use of biotechnology for mili-
14 tary purposes beyond traditional biological weapons;
15 and

16 (4) any other militarily relevant applications of
17 biotechnology determined appropriate by the Chair-
18 man.

19 (c) CONSULTATION.—In conducting the review under
20 subsection (a), the Chairman of the Joint Chiefs of Staff
21 shall consult with—

22 (1) the commanders of the combatant com-
23 mands; and

24 (2) other stakeholders within and outside the
25 Department of Defense, as necessary, to identify re-

1 cent militarily relevant advancements in the field of
2 biotechnology that could potentially be incorporated
3 into exercises.

4 (d) REPORT.—Not later than 180 days after the date
5 of the enactment of this Act, the Chairman of the Joint
6 Chiefs of Staff shall submit to the Committees on Armed
7 Services of the Senate and the House of Representatives
8 a report on the results of the review conducted under sub-
9 section (a). The report shall include—

10 (1) a detailed summary of any recommended
11 modifications to wargaming exercises; and

12 (2) if applicable, a plan for regularly updating
13 the design of such exercises to keep pace with ad-
14 vances in biotechnology.

15 (e) WARGAMING EXERCISE DEFINED.—In this sec-
16 tion, the term “wargaming exercise” means a military ex-
17 ercise conducted to test or improve tactical expertise, and
18 includes the Globally Integrated Wargames.

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