| 2D SESSION | 117TH CONGRESS 2D SESSION | S. | |
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To support endemic fungal disease research, incentivize fungal vaccine development, discover new antifungal therapies and diagnostics, and for other purposes.

IN THE SENATE OF THE UNITED STATES

Mr. Kelly (for himself, Ms. Sinema, and Mrs. Feinstein) introduced the following bill; which was read twice and referred to the Committee on

A BILL

- To support endemic fungal disease research, incentivize fungal vaccine development, discover new antifungal therapies and diagnostics, 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. SHORT TITLE.
 - 4 (a) In General.—This Act may be cited as the
 - 5 "Finding Orphan-disease Remedies With Antifungal Re-
- 6 search and Development Act of 2022" or the "FORWARD
- 7 Act of 2022".
- 8 (b) Table of Contents.—The table of contents for
- 9 this Act is as follows:

- Sec. 1. Short title.
- Sec. 2. Continuing support for research on endemic fungal diseases.
- Sec. 3. Endemic fungal disease working group.
- Sec. 4. FDA guidance for industry on development of diagnostics and antifungal drugs and vaccines for Valley Fever.
- Sec. 5. Priority review; fast track product.
- Sec. 6. Priority review vouchers for products for prevention or treatment of endemic fungal diseases.
- Sec. 7. Combating antimicrobial resistance biopharmaceutical accelerator program.

1 SEC. 2. CONTINUING SUPPORT FOR RESEARCH ON EN-

- 2 **DEMIC FUNGAL DISEASES.**
- The Public Health Service Act is amended by insert-
- 4 ing after section 447C of such Act (42 U.S.C. 285f-4)
- 5 the following new section:
- 6 "SEC. 447D. ENDEMIC FUNGAL DISEASES.
- 7 "(a) In General.—The Director of the Institute
- 8 shall—
- 9 "(1) continue to conduct or support epidemio-
- logical, basic, translational, and clinical research re-
- 11 lated to endemic fungal diseases, including coccidioi-
- domycosis (commonly known as and referred to in
- this section as 'Valley Fever'); and
- 14 "(2) subject to the availability of appropria-
- tions, make grants to, or enter into contracts with,
- public or nonprofit private entities to conduct such
- 17 research.
- 18 "(b) Reports.—The Director of the Institute shall
- 19 ensure that each triennial report under section 403 in-
- 20 cludes information on actions undertaken by the National

- Institutes of Health to carry out subsection (a) with re-2 spect to endemic fungal diseases, including Valley Fever. 3 "(c) Authorization of Appropriations.—In ad-4 dition to other amounts available for the purposes of car-5 rying out this section, there is authorized to be appropriated to carry out this section \$20,000,000 for each of fiscal years 2022 through 2026 for such purpose.". 8 SEC. 3. ENDEMIC FUNGAL DISEASE WORKING GROUP. 9 (a) Establishment.—The Secretary of Health and 10 Human Services (referred to in this section as the "Secretary") shall establish a working group, to be known as the Endemic Fungal Disease Working Group (referred to in this section as the "Working Group"), comprised of representatives of appropriate Federal agencies and other 14 15 non-Federal entities— 16 (1) to provide expertise and to review all efforts 17 within the Department of Health and Human Serv-18 ices related to endemic fungal disease; 19 (2) to help ensure interagency coordination and 20 minimize overlap with respect to such disease; and 21 (3) to examine research priorities with respect 22 to such disease.
- 23 (b) Responsibilities.—The Working Group shall—

| 1 | (1) not later than 2 years after the date of en- |
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| 2 | actment of this Act, develop or update a summary |
| 3 | of— |
| 4 | (A) ongoing endemic fungal disease re- |
| 5 | search, including research related to causes, |
| 6 | prevention, treatment, surveillance, diagnosis, |
| 7 | diagnostics, duration of illness, and intervention |
| 8 | for individuals with an endemic fungal disease; |
| 9 | (B) advances made pursuant to such re- |
| 10 | search; |
| 11 | (C) the impact of viral respiratory ill- |
| 12 | nesses, including COVID-19, and fungal lung |
| 13 | diseases and pneumonias; |
| 14 | (D) Federal activities related to endemic |
| 15 | fungal disease, including— |
| 16 | (i) epidemiological activities related to |
| 17 | endemic fungal disease; and |
| 18 | (ii) basic, clinical, and translational |
| 19 | endemic fungal disease research related to |
| 20 | the pathogenesis, prevention, diagnosis, |
| 21 | and treatment of endemic fungal disease; |
| 22 | (E) gaps in endemic fungal disease re- |
| 23 | search described in subparagraph (D)(ii); |
| 24 | (F) the Working Group's meetings re- |
| 25 | quired under subsection (d) and |

| 1 | (G) the comments received by the Working |
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| 2 | Group; |
| 3 | (2) make recommendations to the Secretary, in- |
| 4 | cluding a proposed strategy related to development |
| 5 | of therapeutics and vaccines, regarding any appro- |
| 6 | priate changes or improvements to such activities de- |
| 7 | scribed in paragraph (1); and |
| 8 | (3) in implementing this subsection, solicit |
| 9 | input from States, localities, and nongovernmental |
| 10 | entities, including organizations representing pa- |
| 11 | tients, health care providers, researchers, and indus- |
| 12 | try regarding scientific advances, research questions, |
| 13 | and surveillance activities. |
| 14 | (c) Membership.—The members of the Working |
| 15 | Group shall represent a diversity of scientific disciplines |
| 16 | and views and shall be composed of the following mem- |
| 17 | bers: |
| 18 | (1) Federal members.—Seven Federal mem- |
| 19 | bers, consisting of one or more representatives of |
| 20 | each of the following: |
| 21 | (A) The Office of the Assistant Secretary |
| 22 | for Health. |
| 23 | (B) The Food and Drug Administration. |
| 24 | (C) The Centers for Disease Control and |
| 25 | Prevention. |

| 1 | (D) The National Institutes of Health. |
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| 2 | (E) Such other agencies and offices of the |
| 3 | Department of Health and Human Services as |
| 4 | the Secretary determines appropriate. |
| 5 | (2) Non-federal public members.—Seven |
| 6 | non-Federal public members, consisting of represent- |
| 7 | atives of the following categories: |
| 8 | (A) Physicians and other medical providers |
| 9 | with experience in diagnosing and treating en- |
| 10 | demic fungal disease. |
| 11 | (B) Scientists or researchers with exper- |
| 12 | tise. |
| 13 | (C) Patients and their family members. |
| 14 | (D) Nonprofit organizations that advocate |
| 15 | for patients with respect to endemic fungal dis- |
| 16 | ease. |
| 17 | (E) Other individuals whose expertise is |
| 18 | determined by the Secretary to be beneficial to |
| 19 | the functioning of the Working Group. |
| 20 | (d) Meetings.—The Working Group shall meet an- |
| 21 | nually. |
| 22 | (e) Reporting.—Not later than 2 years after the |
| 23 | date of enactment of this Act, and every 2 years thereafter |
| 24 | until termination of the Working Group pursuant to sub- |
| 25 | section (g), the Working Group shall— |

| 1 | (1) submit a report on its activities under sub- |
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| 2 | section (b)(1) and any recommendations under para- |
| 3 | graph (b)(2) to the Secretary, the Committee on En- |
| 4 | ergy and Commerce of the House of Representa- |
| 5 | tives, and the Committee on Health, Education, |
| 6 | Labor, and Pensions of the Senate; and |
| 7 | (2) make such report publicly available on the |
| 8 | website of the Department of Health and Human |
| 9 | Services. |
| 10 | (f) APPLICABILITY OF FACA.—The Working Group |
| 11 | shall be treated as an advisory committee subject to the |
| 12 | Federal Advisory Committee Act (5 U.S.C. App.). |
| 13 | (g) Sunset.—The Working Group under this section |
| 14 | shall terminate 5 years after the date of enactment of this |
| 15 | Act. |
| 16 | (h) Endemic Fungal Disease Defined.—In this |
| 17 | section, the term "endemic fungal disease" means blasto- |
| 18 | mycosis, coccidioidomycosis, histoplasmosis, and |
| 19 | |
| | sparotrichosis. |
| 20 | sparotrichosis. SEC. 4. FDA GUIDANCE FOR INDUSTRY ON DEVELOPMENT |
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| | SEC. 4. FDA GUIDANCE FOR INDUSTRY ON DEVELOPMENT |
| 21 | SEC. 4. FDA GUIDANCE FOR INDUSTRY ON DEVELOPMENT OF DIAGNOSTICS AND ANTIFUNGAL DRUGS |
| 21 22 | SEC. 4. FDA GUIDANCE FOR INDUSTRY ON DEVELOPMENT OF DIAGNOSTICS AND ANTIFUNGAL DRUGS AND VACCINES FOR VALLEY FEVER. |

- 1 Food and Drugs, shall issue draft guidance for industry
- 2 for the purposes of assisting entities seeking approval
- 3 under the Federal Food, Drug, and Cosmetic Act (21)
- 4 U.S.C. 301 et seq.) or licensure under section 351 of the
- 5 Public Health Service Act (42 U.S.C. 262) of antifungal
- 6 therapies, diagnostics, or vaccines, specifically therapies,
- 7 diagnostics, and vaccines designed to diagnose, treat, or
- 8 prevent coccidioidomycosis (commonly known as Valley
- 9 Fever).
- 10 (b) Final Guidance.—Not later than 18 months
- 11 after the close of the public comment period on the draft
- 12 guidance issued pursuant to subsection (a), the Secretary
- 13 of Health and Human Services, acting through the Com-
- 14 missioner of Food and Drugs, shall finalize the draft guid-
- 15 ance.
- 16 (c) Workshops; Good Guidance Practices.—In
- 17 developing and issuing the guidance required by this sec-
- 18 tion, the Secretary of Health and Human Services shall
- 19 hold at least 2 public workshops.
- 20 SEC. 5. PRIORITY REVIEW; FAST TRACK PRODUCT.
- 21 (a) Priority Review.—
- 22 (1) In General.—Section 524A(a) of the Fed-
- eral Food, Drug, and Cosmetic Act (21 U.S.C.
- 360n-1(a)) is amended by striking "then the Sec-
- 25 retary shall give priority review to the first applica-

1 tion submitted for approval for such drug under sec-2 tion 505(b)" and inserting "or if the drug is a bio-3 logical product intended to treat coccidioidomycosis, 4 then the Secretary shall give priority review to the 5 first application submitted for approval for such 6 drug under section 505(b) of this Act or section 7 351(a) of the Public Health Service Act". 8 (2) APPLICABILITY.—The amendment made by 9 paragraph (1) applies only to any application sub-10 mitted under section 351(a) of the Public Health 11 Service Act (42 U.S.C. 262(a)) on or after the date 12 of enactment of this Act. 13 (b) Fast Track Product.—Section 506(b)(1) of 14 the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 15 356(b)(1)) is amended by striking "or if the Secretary designates the drug as a qualified infectious disease prod-16 uct under section 505E(d)" and inserting ", if the Sec-17 18 retary designates the drug as a qualified infectious disease 19 product under section 505E(d), or if the drug is a biologi-20 cal product intended to treat coccidioidomycosis". 21 SEC. 6. PRIORITY REVIEW VOUCHERS FOR PRODUCTS FOR 22 PREVENTION OR TREATMENT OF ENDEMIC 23 FUNGAL DISEASES. 24 Section 524(a)(3) of the Federal Food, Drug, and 25 Cosmetic Act (21 U.S.C. 360n(a)(3)) is amended—

| 1 | (1) by redesignating subparagraph (S) as sub- |
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| 2 | paragraph (T); and |
| 3 | (2) by inserting after subparagraph (R) the fol- |
| 4 | lowing: |
| 5 | "(S) Coccidioidomycosis.". |
| 6 | SEC. 7. COMBATING ANTIMICROBIAL RESISTANCE BIO- |
| 7 | PHARMACEUTICAL ACCELERATOR PROGRAM. |
| 8 | Paragraph (4) of section 319L(c) of the Public |
| 9 | Health Service Act (42 U.S.C. 247d–7e(c)) is amended |
| 10 | by adding at the end the following: |
| 11 | "(G) Combating antimicrobial resist- |
| 12 | ANCE BIOPHARMACEUTICAL ACCELERATOR PRO- |
| 13 | GRAM.— |
| 14 | "(i) In General.—The Secretary, |
| 15 | acting through the Director of BARDA, |
| 16 | shall implement strategic initiatives, to be |
| 17 | known as the Combating Antimicrobial Re- |
| 18 | sistance Biopharmaceutical Accelerator |
| 19 | Program, including by building on existing |
| 20 | programs and by awarding contracts, |
| 21 | grants, and cooperative agreements, or en- |
| 22 | tering into other transactions— |
| 23 | "(I) to optimize the use of |
| 24 | antimicrobials in human and animal |
| 25 | health settings; |

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| 1 | "(II) to support innovative can- |
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| 2 | didate products in preclinical and clin- |
| 3 | ical development that reduce anti- |
| 4 | microbial resistance; and |
| 5 | "(III) to support research with |
| 6 | respect to infection prevention and |
| 7 | control to slow the spread of resistant |
| 8 | bacteria, fungi, and viruses. |
| 9 | "(ii) References.—Except as other- |
| 10 | wise specified, any reference to the Com- |
| 11 | bating Antibiotic Resistant Bacteria Bio- |
| 12 | pharmaceutical Accelerator or the CARB- |
| 13 | X program in any statute, Executive order, |
| 14 | rule, regulation, directive, or other Federal |
| 15 | document is deemed to be a reference to |
| 16 | the Combating Antimicrobial Resistance |
| 17 | Biopharmaceutical Accelerator Program |
| 18 | under this subparagraph. |
| 19 | "(iii) Authorization of Appropria- |
| 20 | TIONS.— |
| 21 | "(I) In general.—To carry out |
| 22 | the program under clause (i), there is |
| 23 | authorized to be appropriated |
| 24 | \$500,000,000 for the period of fiscal |

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| 1 | years 2022 through 2026, to remain |
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| 2 | available until expended. |
| 3 | "(II) REQUIREMENT.—Of the |
| 4 | amounts made available to carry out |
| 5 | the program under clause (i) for the |
| 6 | period of fiscal years 2022 through |
| 7 | 2026, not less than 10 percent shall |
| 8 | be used to support antifungal product |
| 9 | development.". |