^{112TH CONGRESS} 1ST SESSION **S. 1840**

To amend the Public Health Service Act to expand and intensify programs of the National Institutes of Health with respect to translational research and related activities concerning Down syndrome, and for other purposes.

IN THE SENATE OF THE UNITED STATES

NOVEMBER 10, 2011

Mr. BROWN of Ohio (for himself and Ms. COLLINS) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

- To amend the Public Health Service Act to expand and intensify programs of the National Institutes of Health with respect to translational research and related activities concerning Down syndrome, 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 This Act may be cited as the "Trisomy 21 Research
- 5 Centers of Excellence Act of 2011".

1 SEC. 2. NIH DOWN SYNDROME RESEARCH ACTIVITIES.

2 Part B of title IV of the Public Health Service Act
3 (42 U.S.C. 284 et seq.) is amended by adding at the end
4 of the title the following:

5 "SEC. 409K. DOWN SYNDROME RESEARCH ACTIVITIES.

6 "(a) EXPANSION, INTENSIFICATION, AND COORDINA7 TION OF ACTIVITIES.—

"(1) IN GENERAL.—The Director of NIH, act-8 9 ing through the Director of the Eunice Kennedy 10 Shriver National Institute of Child Health and 11 Human Development, shall expand and intensify 12 programs of the National Institutes of Health with 13 respect to research and related activities concerning 14 Down syndrome. The Director of NIH shall carry 15 out such programs in coordination with a working 16 group composed of representatives of the relevant in-17 stitutes, centers, offices, and agencies of the Na-18 tional Institutes of Health.

19 "(2) NIH RESEARCH PLAN ON DOWN SYN20 DROME.—The Director of NIH shall publish a re21 search plan on Down syndrome, and update it every
22 5 years or as appropriate.

23 "(b) CENTERS OF EXCELLENCE.—

24 "(1) IN GENERAL.—In carrying out subsection
25 (a)(1), the Director of NIH shall award grants and
26 contracts to public or nonprofit private entities to
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pay all or part of the cost of planning, establishing,
improving, and providing basic operating support for
centers of excellence regarding translational research
on Down syndrome. To the extent and in the
amount of appropriations made in advance, the Director of NIH shall provide for the establishment of
at least 6 such centers of excellence.

8 "(2) BASIC, TRANSLATIONAL, AND CLINICAL 9 RESEARCH.—Each center receiving funds under 10 paragraph (1) shall contribute to a comprehensive 11 research portfolio for Down syndrome building upon 12 the recommendations set forth in the NIH Research 13 Plan on Down Syndrome published on October 8, 14 2007, have a primary focus on Down syndrome, pro-15 vide an optimal venue and infrastructure for patient-16 oriented research, and conduct basic, clinical, and 17 translational research on Down syndrome, including 18 research on one or more of the following:

19 "(A) Early detection, diagnosis, and treat-20 ment of Down syndrome.

21 "(B) The biological mechanisms respon22 sible for structural and functional anomalies in
23 cells and tissues affected by Down syndrome.

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1	"(C) The biological mechanisms respon-
2	sible for cognitive and behavioral dysfunction
3	resulting from Down syndrome.
4	"(D) Novel biomedical and pharma-
5	cological interventions designed to promote or
6	enhance cognition and related brain functions
7	and activities of daily living (ADLs).
8	"(E) Co-occurrence of and treatments for
9	associated medical and neurobehavioral dis-
10	orders.
11	"(F) Developmental disorders, interven-
12	tions for congenital heart disease, obstructive
13	sleep apnea, coronary heart disease, obesity,
14	and metabolism.
15	"(G) Contributions of genetic variation to
16	clinical presentation as targets for the rapy.
17	"(H) Identification of biomarkers for com-
18	plex phenotypes.
19	"(I) Noninvasive imaging in support of ef-
20	forts regarding other genotype and phenotypes
21	of Down syndrome.
22	"(J) Pharmacological and other therapies
23	for common features of Down syndrome includ-
24	ing Alzheimer's disease and other Down syn-
25	drome-related disorders.

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"(K) Research related to improving the 1 2 quality of life for individuals with Down syndrome and their families. 3 "(L) Research training programs aimed at 4 5 increasing the numbers of scientists who are 6 trained to carry out these research directions. 7 "(3) Services for patients.— "(A) IN GENERAL.—A center receiving 8 9 funds under paragraph (1) shall expend amounts provided under such paragraph to 10 11 carry out a program to make individuals aware 12 of opportunities to participate as subjects in re-13 search conducted by the centers receiving funds 14 under such paragraph. "(B) Referrals and costs.—A program 15 16 under subparagraph (A) shall, in accordance 17 with such criteria as the Director of NIH may 18 establish, provide to the subjects described in 19 such subparagraph referrals for health and 20 other services and such patient care costs as 21 are required for research. 22 "(C) AVAILABILITY AND ACCESS.—In

22 "(C) AVAILABILITY AND ACCESS.—In
23 awarding grants under this section, the Direc24 tor of NIH shall require the applicant to dem25 onstrate, and shall take into consideration, the

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1	availability of and access to health and medical
2	services described in subparagraph (B).
3	"(4) TRAINING PROGRAM FOR CLINICIANS AND
4	SCIENTISTS.—Each center receiving funds under
5	paragraph (1) shall establish or expand training pro-
6	grams for medical and allied health clinicians and
7	scientists in research relevant to Down syndrome.
8	"(5) Coordination of centers; reports.—
9	The Director of NIH shall—
10	"(A) provide for the coordination of infor-
11	mation sharing among the centers receiving
12	funds under paragraph (1) and ensure regular
13	communication among such centers; and
14	"(B) require the centers to submit periodic
15	reports to the Director on their activities.
16	"(6) Organization of centers.—Each cen-
17	ter receiving funds under paragraph (1) shall use
18	the facilities of a single institution meeting such re-
19	quirements as may be prescribed by the Director of
20	NIH, be formed from a virtual consortium or net-
21	work of such institutions, or both.
22	"(7) DURATION OF SUPPORT.—
23	"(A) IN GENERAL.—Subject to subpara-
24	graph (B), the Director of NIH may not pro-
25	vide support to a center receiving funds under

1	paragraph (1) for a period of more than 5
2	years.
3	"(B) EXTENSION.—The period referred to
4	in subparagraph (A) may be extended for 1 or
5	more additional periods not exceeding 5 years
6	if—
7	"(i) the operations of the center have
8	been reviewed by an appropriate technical
9	and scientific peer review group established
10	by the Director of NIH; and
11	"(ii) such group has recommended to
12	the Director that such period be extended.
13	"(c) Down Syndrome Consortium.—In carrying
14	out subsection $(a)(1)$, the Director of NIH may establish
15	a Down Syndrome Consortium to facilitate the exchange
16	of information and to make the research effort on Down
17	syndrome more efficient and effective by assuring con-
18	sistent communication, minimizing duplication of effort,
19	and integrating the varied perspectives of partner agen-
20	cies, organizations, and individuals.
21	"(d) REPORT TO CONGRESS.—Not later than Janu-
22	ary 1, 2012, and each January 1 thereafter, the Secretary
23	of Health and Human Services shall prepare and submit
24	to the appropriate committees of the Congress a report
25	concerning the implementation of this section.

"(e) AUTHORIZATION OF APPROPRIATIONS.—To
 carry out this section, there are authorized to be appro priated \$6,000,000 for each of fiscal years 2012 through
 2017.".