107TH CONGRESS 2D SESSION

H. R. 4709

To amend the Public Health Services Act to authorize the Director of the National Institute of Environmental Health Sciences to conduct and coordinate a research program on hormone disruption.

IN THE HOUSE OF REPRESENTATIVES

May 9, 2002

Ms. Slaughter introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Resources, and Science, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To amend the Public Health Services Act to authorize the Director of the National Institute of Environmental Health Sciences to conduct and coordinate a research program on hormone disruption.

- 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 "Hormone Disruption
- 5 Research Act of 2002".
- 6 SEC. 2. FINDINGS.
- 7 Congress makes the following findings:

- (1) Many compounds found or introduced into the environment by human activity are capable of disrupting the hormone system of humans and animals. The consequences of such disruption can be profound because of the crucial role hormones play in controlling development. No standardized and validated screens or tests have been developed to routinely and systematically assess chemicals for disruptive effects on hormone systems.
 - (2) In the last 30 years, the United States has experienced an increase in the incidence of such human disorders as childhood cancers, testicular cancer, hypospadias, juvenile diabetes, attention deficit-like hyperactivity disorders, autism, thyroid disorders, and auto-immune disorders. Exposure to hormone-disrupting chemicals may be contributing to these increases. The impact on children's health as a result of prenatal exposures in particular needs further research.
 - (3) In 2001, the Centers for Disease Control and Prevention's "National Report on Human Exposure to Environmental Chemicals" reported on human exposure to 27 chemicals, and found unexpectedly high levels of certain chemicals used in consumer products. The hazards to humans of these

- chemicals, singly and in combination, are not well understood.
- (4) Many wildlife populations have been affected by hormone disrupting substances, including
 birds, fish, reptiles, and mammals. The effects vary
 among species and compounds.
 - (5) The effects in wildlife include thyroid dysfunction, decreased fertility, decreased hatching success, gross birth deformities, metabolic and behavioral abnormalities, demasculinization and feminization of male organisms, deformation and masculinization of female organisms, and compromised immune systems. These effects may signal hazards to human health.
 - (6) Laboratory studies have corroborated studies of effects in wildlife and have identified biological mechanisms to explain the effects shown.
 - (7) Since the chemicals found in wildlife are also found in humans, humans are exposed to the same chemicals as wildlife.
 - (8) Hormone disruption can occur at very low doses, especially when exposure occurs in the womb or immediately after birth, periods during which rapid development is occurring.

- (9) In the Food Quality Protection Act of 1996
 (21 U.S.C. 301 note), Congress recognized the special vulnerability of infants and children to pesticides
 and requested that the Environmental Protection
 Agency establish a program to screen and test hormone disrupting chemicals. The Environmental Protection Agency has not yet required such screening
 or tests.
 - (10) In 1998, a research committee on hormone disrupters, organized under the auspices of the Office of Science and Technology Policy, concluded that "scientific knowledge is inadequate to fully inform public policy, and a government-wide coordinated research effort that addresses the key scientific uncertainties . . . is needed".
 - (11) In 1999, in response to a request from Congress and funded through the Environmental Protection Agency and the Department of the Interior, the National Academy of Sciences compiled a lengthy list of research, monitoring, and testing priorities related to hormone disruption.
 - (12) The National Institute of Environmental Health Sciences conducts much of the Federal Government's research on hormone disruption, often working in partnership with other agencies.

- 1 (13) Congress fully supports critical research
 2 being performed by the National Institute of Envi3 ronmental Health Sciences on methods to reduce, re4 fine, or replace animal tests in scientific and medical
 5 studies.
 - (14) Congress strongly supports protection of animal subjects and encourages all scientists to use alternatives to animal testing to the maximum extent possible.
 - (15) The United States Geological Survey (referred to in this section as the "USGS") has considerable experience assessing the occurrence of chemicals in the environment, ecological health, and the hazards to wildlife health and associated human health posed by chemicals in the environment, as a result of monitoring by the USGS of the Nation's water resources and wildlife disease, and research by the USGS on the effects of chemicals on wildlife.
 - (16) The National Academy of Sciences has recognized the expertise of the USGS in such areas as food web contamination and water quality assessment and has encouraged more coordinated work on human health between the USGS and the National Institutes of Health.

1	SEC. 3. AMENDMENT TO THE PUBLIC HEALTH SERVICES
2	ACT TO PROVIDE FOR RESEARCH ON HOR-
3	MONE DISRUPTION.
4	Subpart 12 of part C of title IV of the Public Health
5	Service Act (42 U.S.C. 2851 et seq.) is amended by adding
6	at the end of the following:
7	"DIRECTED NATIONAL PROGRAM OF RESEARCH ON
8	HORMONE DISRUPTION
9	"Sec. 463B. (a) Study.—
10	"(1) In general.—The Director of the Insti-
11	tute shall establish within the Institute a comprehen-
12	sive program to—
13	"(A) conduct research on the impact of
14	chemicals that affect human health through dis-
15	ruption of the hormone systems;
16	"(B) conduct research on the occurrence of
17	hormone disrupting chemicals in the environ-
18	ment and their effects on ecological and wildlife
19	health, in cooperation with the United States
20	Geological Survey (referred to in this section as
21	the 'USGS');
22	"(C) coordinate the design of a multi-agen-
23	cy research initiative on hormone disruption;
24	"(D) coordinate research on hormone dis-
25	ruption in the United States with such research
26	conducted in other nations; and

1	"(E) report to the public every 2 years on
2	the extent to which hormone disruption by
3	chemicals in the environment poses a threat to
4	human health and the environment.
5	"(2) Issues to be studied.—The program,
6	established under paragraph (1) shall provide for the
7	following:
8	"(A) Collection, compilation, publication,
9	and dissemination of scientifically valid infor-
10	mation on—
11	"(i) possible human health effects of
12	hormone disrupting chemicals, with em-
13	phasis on exposures to low doses of indi-
14	vidual chemicals and chemical mixtures
15	during critical life stages of development,
16	particularly effects of prenatal exposures
17	on children's health;
18	"(ii) the extent of human exposure to
19	hormone disrupting chemicals, with par-
20	ticular emphasis on exposures during crit-
21	ical life stages of development and in resi-
22	dential and occupational settings; and
23	"(iii) exposure of wildlife species to
24	hormone disrupting chemicals and possible

1	health effects associated with such expo-
2	sures.
3	"(B) Research on mechanisms by which
4	hormone disrupting substances interact with bi-
5	ological systems.
6	"(C) Research on improved in vitro and in
7	vivo methods to screen and test hormone dis-
8	ruption.
9	"(D) Research on the identity, levels,
10	transport and fate of hormone disrupting
11	chemicals in the environment.
12	"(b) Director's Duties.—
13	"(1) In General.—The Director of the Insti-
14	tute shall have principal responsibility, in consulta-
15	tion with the Director of the USGS, for conducting
16	and coordinating research on the effects of hormone
17	disrupting chemicals on human health and the envi-
18	ronment.
19	"(2) AGREEMENT.—Not later than 6 months
20	after the date of enactment of the Hormone Disrup-
21	tion Research Act of 2002, the Director of the Insti-
22	tute and the Director of the USGS shall enter into
23	an agreement to carry out the research program es-
24	tablished under subsection (a).

1 "(3) Transfer of funds.—The Director of 2 the Institute may transfer funds to other Federal 3 agencies to carry out the Director's responsibilities 4 under paragraph (1).

"(4) Report.—The Director of the Institute, in consultation with the Director of the USGS, shall make available to the public, every 2 years following the date of enactment of the Hormone Disruption Research Act of 2002, findings and conclusions on the extent to which hormone disruption by chemicals in the environment poses a threat to human health and the environment.

"(c) Interagency Commission.—

"(1) ESTABLISHMENT.—The Secretary shall establish a commission to be known as the Hormone Disruption Research Interagency Commission (referred to in this section as 'Interagency Commission') to advise the Director of the Institute and the Director of the USGS on the development of a comprehensive agenda for conducting research on hormone disruption.

- "(2) Membership.—The Interagency Commission shall be composed of 12 members, as follows:
- 24 "(A) The Director of the Institute, who 25 shall serve as the Chairperson.

1	"(B) The Director of the USGS, who shall
2	serve as the Vice-Chairperson.
3	"(C) The Commissioner of the Food and
4	Drug Administration.
5	"(D) The Director of the Centers for Dis-
6	ease Control and Prevention.
7	"(E) The Administrator of the National
8	Oceanic and Atmospheric Administration.
9	"(F) The Director of the National Insti-
10	tute for Occupational Safety and Health.
11	"(G) The Administrator of the Agency for
12	Toxic Substances and Disease Registry.
13	"(H) The Director of the Fish and Wildlife
14	Service.
15	"(I) The Secretary of Defense.
16	"(J) The Administrator of the Environ-
17	mental Protection Agency.
18	"(K) The Chairman of the Consumer
19	Product Safety Commission.
20	"(L) The Director of the National Science
21	Foundation.
22	"(3) Staff.—Each department or agency rep-
23	resented by a member on the Interagency Commis-
24	sion shall provide appropriate staff to carry out the
25	duties of the Interagency Commission.

- 1 "(4) RECOMMENDATIONS.—Not later than 12
 2 months after the date of enactment of the Hormone
 3 Disruption Research Act of 2002, the Interagency
 4 Commission shall recommend to the Director of the
 5 Institute and the Director of the USGS a research
 6 program, including levels of funding for intramural
 7 and extramural research.
 - "(5) PUBLIC COMMENT.—The Director of the Institute, through publication of notice in the Federal Register, shall provide the general public with an opportunity to comment on the recommendations of the Interagency Commission.
 - "(6) Report.—Not later than 4 years after the date of enactment of the Hormone Disruption Research Act of 2002, the Interagency Commission shall conduct a review of the program established under subsection (a) and submit a report on the results of such review to the Director of the Institute and to the Hormone Disruption Research Panel established under subsection (e).

"(d) FINANCIAL ASSISTANCE.—

"(1) In general.—The Director of the Institute may provide financial assistance and enter into grants, contracts, and interagency memoranda of understanding to conduct activities under this sec-

1	tion. Research conducted pursuant to interagency
2	memoranda of understanding may be conducted
3	through intramural and extramural agency research
4	programs, subject to appropriate scientific peer re-
5	view.
6	"(e) Hormone Disruption Research Panel.—
7	"(1) Establishment.—There is established in
8	the Institute a Hormone Disruption Research Panel
9	(referred to in this subsection as the 'Panel').
10	"(2) Duties.—The Panel shall advise the Di-
11	rector of the Institute concerning the scientific con-
12	tent of the program established under subsection
13	(a), the progress of such program, and public out-
14	reach, and shall provide such other advice as re-
15	quested by the Director of the Institute.
16	"(3) Membership.—The Panel shall be com-
17	posed of the following:
18	"(A) 15 voting members to be appointed
19	by the President, in consultation with the Di-
20	rector of the Institute.
21	"(B) Such nonvoting, ex officio members
22	as the Director of the Institute determines to
23	be appropriate.
24	"(4) Voting members.—Of the 15 voting
25	members of the Panel—

1	"(A) at least 2 members shall be from en-
2	vironmental protection organizations;
3	"(B) at least 2 members shall be from
4	public health and consumer organizations;
5	"(C) at least 2 members shall be from in-
6	dustry; and
7	"(D) a majority of the members shall be
8	selected from among scientists and environ-
9	mental health professionals who—
10	"(i) are not officers or employees of
11	the United States;
12	"(ii) represent multiple disciplines, in-
13	cluding clinical, basic, public, and ecologi-
14	cal health sciences;
15	"(iii) represent different geographical
16	regions of the United States;
17	"(iv) are from practice settings, aca-
18	demic settings, and for-profit or not-for-
19	profit research settings; and
20	"(v) have experience in review of
21	research on endocrine disruption.
22	"(5) Terms.—The members of the Panel shall
23	be appointed for an initial term of 3 years and shall
24	be eligible for reappointment for 1 additional term
25	of 2 years.

- 1 "(6) CHAIRPERSON.—The members of the 2 Panel appointed under paragraph (3) shall elect a 3 chairperson from among such members.
- "(7) MEETINGS.—The Panel shall meet at the call of the chairperson or upon the request of the Director of the Institute, but in no case less often than once each year.
- 8 "(8) ADMINISTRATIVE SUPPORT.—The Institute 9 shall provide administrative support to the Panel.
- "(f) CONFLICTS OF INTEREST.—All grants and contracts entered into under this section shall include conflict of interest provisions that require any person conducting a project under this section to disclose any other source of funding received by the person to conduct other related projects.
- 16 "(g) Definitions.—For purposes of this section:
- "(1) HORMONE.—The term 'hormone' means a substance produced in a cell or tissue that triggers a biological response. Hormone activity may be localized to the cell in which the substance is produced, or may be in nearby or distant tissues or organs.
 - "(2) HORMONE DISRUPTION.—The term 'hormone disruption' means interference by a substance with the synthesis, secretion, transport, binding, action, or elimination of natural hormones in the body

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1 that are responsible for the maintenance of homeo-2 stasis, reproduction, development, function, or behavior. 3 "(h) AUTHORIZATION OF APPROPRIATIONS.— "(1) GENERAL AUTHORIZATION.—There are 6 authorized to be appropriated \$500,000,000 for the 7 5-fiscal-year period beginning with fiscal year 2003 8 to carry out this section. Amounts appropriated pur-9 suant to this paragraph shall remain available until 10 expended. 11 "(2) Restrictions on use of funds.— 12 "(A) CONSTRUCTION AND REHABILITA-13 TION OF FACILITIES AND EQUIPMENT.—Not 14 more than 0.5 percent of the funds made avail-15 able under this section may be used for the construction or rehabilitation of facilities or fixed 16 17 equipment. 18 "(B) Administrative expenses of the 19 DIRECTOR.—Of the total amount of funds made 20 available under this section for any fiscal year, 21 not more than 2 percent of such funds may be 22 used for administrative expenses of the Director 23 of the Institute in carrying out this section. "(C) Public outreach.—Of the total 24

amount of funds made available under this sec-

tion for any fiscal year, at least 1 percent, but not more than 5 percent, shall be used for outreach to the public concerning the activities and results of the program.".

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