

Health Research Program

Pennsylvania Tobacco Settlement Act

Commonwealth of Pennsylvania Tom Wolf, Governor

Karen M. Murphy, Ph.D., R.N. Secretary of Health

Message from the Secretary

On behalf of Governor Wolf, I am pleased to present the 2013-14 annual report of the Pennsylvania Commonwealth Universal Research Enhancement (CURE) Program. In June 2001, the Tobacco Settlement Act, or Act 2001-77, was signed into law, authorizing the Department of Health to establish the Health Research Program, which was designed to improve the delivery of health care, promote health, prevent disease and injury, and translate research advances to community health care practice.

Tobacco Master Settlement Agreement (MSA) funds are used to award grants to Pennsylvaniabased organizations for biomedical research, clinical investigations and health services research. Over the past 13 years, the impact of the CURE Program has been immeasurable. Its depth and breadth of research discoveries have included new developments in smoking cessation, genomebased therapeutics, heart and lung disease, nutrition and obesity, addiction, as well as pancreatic, liver, breast and lung cancers and leukemia.

During the 2013-14 state fiscal year (SFY), no research grant funds were allocated to the CURE Program by the governor's office due to an arbitration ruling in September 2013 from an ongoing dispute between the commonwealth and tobacco manufacturers over an MSA payment.

However, since the program's inception, the Department of Health has awarded approximately \$797 million in CURE Program grants and has funded 1,933 health research projects. These grants fund laboratory construction, state-of-the-art research equipment acquisition and maintenance, ongoing research programs, and new research studies. Of the 397 research grants completed as of June 30, 2014, study findings have been reported in more than 2,053 peer-reviewed articles, and 93 patents have been filed. Researchers have leveraged an additional \$1.2 billion in funding to continue their research endeavors.

The CURE Program has led to new scientific knowledge that has helped improve public health for Pennsylvanians and for citizens nationwide. We invite you to read and learn more about this program through this annual report, as well as on the department's website at: www.health.pa.gov.

Karen M. Murphy PhD RN

Karen M. Murphy, Ph.D., R.N. Secretary of Health

Health Research Advisory Committee (as of June 30, 2014)

Chair:

Michael Wolf Secretary of Health Commonwealth of Pennsylvania

Members:

Dwight Davis, M.D.

Professor of Medicine and Medical Director, Cardiac Rehabilitation Program Pennsylvania State University School of Medicine

Karen Wolk Feinstein, Ph.D. President Jewish Healthcare Foundation

Lewis H. Kuller, M.D., Dr. P.H.

University Professor of Public Health and Professor of Epidemiology Graduate School of Public Health at the University of Pittsburgh

Arthur S. Levine, M.D.

Senior Vice Chancellor for the Health Sciences and Dean, School of Medicine University of Pittsburgh

Michael S. Parmacek, M.D.

Herbert C. Rorer Professor of Medical Sciences and Director, Penn Cardiovascular Institute University of Pennsylvania School of Medicine

Michael V. Seiden, M.D., Ph.D. President and Chief Executive Officer Fox Chase Cancer Center

Lisa Staiano-Coico, Ph.D. President The City College of New York

Kim Smith-Whitley, M.D. Assistant Professor of Pediatrics, Division of Hematology The Children's Hospital of Philadelphia

Contents of the Annual 2013-14 CURE Program Report

The Annual 2013-14 CURE program report consists of an overview of the health research program, accomplishments of the program for the 2013-14 state fiscal year, and a financial report of grant awards and expenditures for the year. This report also includes separate annual progress reports for each grant recipient and a research development report on the commercialization of research for recipients of \$400,000 or more in formula funds, as listed below.

Albert Einstein Healthcare Network

2012 Formula Grant

Allegheny-Singer Research Institute

- 2011 Formula Grant
- 2012 Formula Grant
- American College of Radiology
 - 2009 Formula Grant
 - 2010 Formula Grant
 - 2011 Formula Grant
 - 2012 Formula Grant
 - Research Development Report

Apogee Biotechnology Corporation

 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics

Baruch S. Blumberg Institute

 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics

Carnegie Mellon University

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Children's Hospital of Philadelphia

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Children's Hospital of Pittsburgh

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant
- Drexel University
 - 2009 Nonformula Grant on Cancer Vaccines
 - 2009 Formula Grant
 - 2010 Formula Grant
 - 2011 Formula Grant
 - 2012 Formula Grant
 - Research Development Report

Duquesne University

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant

2012 Formula Grant

Geisinger Clinic

- 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
- 2011 Nonformula Grant on Translational Genomics
- 2012 Formula Grant

Haverford College

- 2010 Formula Grant
- 2011 Formula Grant
- 2012 Formula Grant
- Hepatitis B Foundation
 - 2012 Formula Grant
- Indiana University of Pennsylvania
 - 2010 Formula Grant

Institute for Cancer Research (formerly Fox Chase Cancer Center)

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Lankenau Institute for Medical Research

- 2012 Formula Grant
- Lehigh University
 - 2009 Formula Grant
 - 2011 Formula Grant
 - 2012 Formula Grant
- Lincoln University
 - 2012 Formula Grant
- Magee-Womens Research Institute
 - 2012 Formula Grant
- Monell Chemical Senses Center
 - 2012 Formula Grant

National Disease Research Interchange

2012 Formula Grant

National Surgical Adjuvant Breast and Bowel Project (NSABP) Foundation

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Oncoceutics, Inc.

 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics

Pennsylvania State University

- 2009 Formula Grant
- 2010 Nonformula Grant on Substance Abuse
- 2010 Formula Grant
- 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Philadelphia College of Osteopathic Medicine

- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Formula Grant

2012 Formula Grant

Salus University

- 2012 Formula Grant
- Temple University
 - 2009 Formula Grant
 - 2010 Formula Grant
 - 2011 Formula Grant
 - 2012 Formula Grant
 - Research Development Report

Thomas Jefferson University

- 2009 Nonformula Grant on Cancer Vaccines
- 2009 Formula Grant
- 2010 Formula Grant
- 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

Treatment Research Institute

- 2010 Nonformula Grant on Substance Abuse
- 2011 Formula Grant
- 2012 Formula Grant
- UE LifeSciences Inc.
 - 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics

University of Pennsylvania

- 2009 Nonformula Grant on Blindness and Visual Impairment
- 2009 Nonformula Grant on Cancer Vaccines
- 2009 Formula Grant
- 2010 Nonformula Grant on Substance Abuse
- 2010 Formula Grant
- 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
- 2011 Nonformula Grant on Translational Genomics
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

University of Pittsburgh

- 2009 Formula Grant
- 2010 Nonformula Grant on Substance Abuse
- 2010 Formula Grant
- 2011 Formula Grant
- 2012 Formula Grant
- Research Development Report

University of the Sciences in Philadelphia

- 2011 Formula Grant
- 2012 Formula Grant
- Wills Eye Health System
 - 2009 Nonformula Grant on Blindness and Visual Impairment
- Wistar Institute of Anatomy and Biology
 - 2011 Nonformula Grant on Commercialization of Research Related to Cancer Diagnostics and Therapeutics
 - 2012 Formula Grant
 - Research Development Report

Health Research Program Overview and Accomplishments

Overview

Act 2001-77, the Tobacco Settlement Act, authorized the Pennsylvania Department of Health to establish the Commonwealth Universal Research Enhancement (CURE) Program to fund health research using tobacco settlement monies. Of the tobacco settlement funds, 13.6 percent (called "formula funds") are awarded by formula to institutions that have previously received awards from the National Institutes of Health (NIH) and National Cancer Institute (NCI); 5.4 percent (called "nonformula funds") are awarded by competitive peer review.

The CURE program provides broad-based health research grants to Pennsylvania-based researchers, universities, medical schools, and other institutions. A grant may be used to support more than one research project, but all research projects must be completed within 48 months of the start of the grant. Research projects may focus on basic biomedical research, patient-oriented clinical investigations, or health services research. Up to 50 percent of the grant funds may be spent on infrastructure, which is defined in Act 149 of 2002 and includes office equipment and supplies, nonprofessional personnel, and laboratory or building construction or renovations used to conduct research.

Health research funds are awarded to projects that are consistent with the program's research priorities. These priorities are determined by the department in conjunction with the Health Research Advisory Committee. In developing the research priorities, consideration is given to the national health promotion and disease prevention objectives as applied to Pennsylvania. Priorities focus on critical research areas and the disparities in health status that occur among various populations within the commonwealth.

Each year, recipients of health research grant awards report progress on research projects. This information is used to compile the annual report to the legislature. This year's annual report, as well as past reports, can be found at <u>www.health.state.pa.us/cure</u>. This website is continually updated with the most recent information about the health research program, including announcements concerning research priorities, request for applications, and meetings of the Health Research Advisory Committee.

Health Research Advisory Committee

Chaired by the secretary of health, this nine-member advisory committee provides advice and recommendations on research priorities, grant accountability and evaluation procedures, and other related issues. Health research grants awarded by the CURE Program must address research priorities, which are established by the department in conjunction with the Health Research Advisory Committee. The research priorities are reviewed and revised as needed. During the state fiscal year (SFY) 2013-14, funds for health research grants were unavailable for disbursement due to an arbitration ruling in September 2013 from an ongoing dispute between the commonwealth and tobacco manufacturers over a Tobacco Master Settlement Agreement (MSA) payment. Therefore, the Health Research Advisory Committee, with no need to revise

the research priorities and no other business on which to act, did not meet during this state fiscal year.

Health Research Priorities and Grant Awards

Separate health research priorities are established for formula and nonformula funds. The health research priorities for the formula funds have remained unchanged since the first year of the program, while the research priorities for the nonformula funds are revised every year that nonformula grants are awarded. The department did not identify priorities for the 2013-14 state fiscal year and did not award research grants because funds for research grants were not available. Research priorities for years prior to 2013-14 may be viewed at the CURE Web page (www.health.state.pa.us/cure) under the "CURE Health Research Priorities" link.

Program Measures for Completed Grants

Number and Amount of Completed Grants

As of June 30, 2014, a total of 359 formula grantees and 38 nonformula grantees had completed their grants and submitted final progress reports summarizing the results of their research accomplishments. Although the amount of the grant awards for formula grants varied considerably (\$700 to over \$10 million), 43 percent of the awards were for amounts equal to or less than \$100,000.

Number of Grants Completed by June 30, 2014: Amount of Awards by Type								
Number of								
	Number of Formula	Nonformula Grant	Number of Total					
Amount of Award	Grant Awards	Awards	Grant Awards					
\$100,000 or less	155	0	155					
More than \$100,000	204	38	242					
All grants	359	38	397					

Publications

Since the goal of research is to discover new scientific knowledge, an appropriate measure of the extent to which the health research grants achieve this goal is the publication of research findings in peer-reviewed journals. A total of 163 formula grantees reported that their research resulted in peer-reviewed publications. They cited a total of 1,801 peer-reviewed publications. An additional 182 publications had been submitted for review but were awaiting a decision at the time the grantees had submitted their final reports. Thirty-two nonformula grantees reported 252 peer-reviewed publications resulting from funded research and 41 additional submissions awaiting a publication.

Leveraging of Additional Grants

On the final progress report, grantees are asked to list funds that they obtained as a result of the health research funds provided to them through the CURE Program. More than half (52 percent) of all grantees reported leveraging additional grants. A total of 174 formula grant recipients reported obtaining \$986 million as a result of the CURE funds provided to them. Thirty-four (34) nonformula grant recipients reported obtaining additional grants totaling \$264 million. The total amount of additional funding leveraged was two times the amount of the original CURE grant awards.

Grants Completed by June 30, 2014: Original Grant Awards and Additional Funds Obtained by Type of Award								
	Formula Grants	Nonformula Grants	Total Grants					
Amount of original CURE grant awards	\$468,894,591	\$155,017,724	\$623,912,315					
Amount of additional grants obtained	\$986,076,450	\$263,676,367	\$1,249,752,817					
Percentage of grants that obtained additional funding	48%	89%	52%					
Return on investment	210%	170%	200%					

Performance Review

Overview of the Process

According to Act 2001-77, any applicant that receives a health research grant is subject to a performance review at the end of the research project or more often as deemed necessary by the department. The department contracted with Oak Ridge Associated Universities (ORAU) to oversee and manage the performance review process. Two types of performance reviews are performed each year: (1) final performance reviews for grantees that have completed their research projects; and (2) interim performance reviews of nonformula grants when they are partially completed. The performance reviews are based on the requirements specified in Act 2001-77 and the criteria developed by the department in consultation with the Health Research Advisory Committee.

The following criteria are applied to every project contained in the formula grant using information submitted by research grant recipients. The criteria for formula and nonformula grants are slightly different. Formula grants are not selected by a peer review process, whereas nonformula grants are subject to peer review prior to selection for funding by the department. Therefore, for nonformula grants, the performance reviewers are not asked to consider questions

that were considered during peer review, e.g., questions concerning the significance of the project for improving health and adequacy of research design.

Formula Grant Evaluation Criteria

How well did the project meet its stated objectives? If objectives were not completely met, was reasonable progress made?

- Did the project meet the stated objectives?
- Were the research design and methods adequate in light of the project objectives?
- Consider these questions about data and empirical results: Were the data developed sufficiently to answer the research questions posed? Were the data developed in line with the original research protocol?
- If changes were made to the research protocol, was an explanation given, and, if so, is it reasonable?
- Consider (only for clinical research projects) the extent of laboratory and clinical activities initiated and completed and the number of subjects relative to the target goal.
- Were sufficient data and information provided to indicate or support the fact that the project met its objectives or made acceptable progress?
- Were the data and information provided applicable to the project objectives listed in the strategic research plan?

What is the likely beneficial impact of this project? If the likely beneficial impact is small, is it judged reasonable in light of the dollars budgeted?

- What is the significance of this project for improving health?
- Consider the value of the research completed toward eventual improvement in health outcomes.
- Consider any changes in risk factors, services provided, incidence of disease, death from disease, stage of disease at time of diagnosis, or other relevant measures of impact and effectiveness of the research being conducted.
- Consider any major discoveries, new drugs, and new approaches for prevention, diagnosis, and treatment that are attributable to the completed research project.
- What are the future plans for this research project?

Did the project leverage additional funds, or were additional grant applications submitted as a result of the project?

- If leveraging of funds was expected, did these funds materialize?
- Are the researchers planning to apply for additional funding in the future to continue or expand the research?

Did the project result in any peer-reviewed publications, licenses, patents, or commercial development opportunities? Were any of these submitted/filed?

• If any of the above listed were expected, did these materialize?

- Are the researchers planning to submit articles to peer-reviewed publications, file for any licenses or patents, or begin any commercial development opportunities in the future?
- Consider the number/quality of each.

Did the project enhance the quality and capacity for research at the grantee's institution?

- Were there improvements made to infrastructure?
- Were any new investigators added, or were any researchers brought into the institution to help carry out this research?
- Were funds used to pay for research performed by pre- or post-doctoral students?

Did the project lead to collaboration with research partners outside of the institution or new involvement with the community?

- Are the researchers planning to begin any collaborations as a result of the research?
- For clinical research only: Consider the number of hospitals and health care professionals involved and the extent of penetration of the studies throughout the region or the commonwealth.

Nonformula Grant Evaluation Criteria

How well did the grant meet its stated objectives? If objectives were not completely met, was reasonable progress made?

- Did the grant meet the stated objectives?
- Consider these questions about the data and empirical results: Were the data developed sufficiently to answer the research questions posed? Were the data developed in line with the original research protocol?
- If changes were made to the research protocol, was an explanation given, and, if so, was it reasonable?
- Consider (only for clinical research grants) the extent of laboratory and clinical activities initiated and completed and the number of subjects relative to the target goal.
- Were sufficient data and information provided to indicate or support the fact that the project met its objectives or made acceptable progress?
- Were the data and information provided applicable to the project objectives listed in the strategic plan?

What is the likely beneficial impact of this grant? If the likely beneficial impact is small, is it judged reasonable in light of the dollars budgeted?

- Consider any changes in risk factors, services provided, incidence of disease, death from disease, stage of disease at time of diagnosis, or other relevant measures of impact and effectiveness of the research being conducted.
- Consider any major discoveries, new drugs, and new approaches for prevention, diagnosis, and treatment that are attributable to the completed research grant.

• What are the future plans for this research grant?

Did the grant leverage additional funds or were additional grant applications submitted?

- If leveraging of funds was expected, did these funds materialize?
- Are the researchers planning to apply for additional funding in the future to continue or expand the research?

Did the grant result in any peer-reviewed publications, licenses, patents, or commercial development opportunities? Were any of these submitted/filed?

- If any of the above listed were expected, did these materialize?
- Are the researchers planning to submit articles to peer-reviewed publications, file for any licenses, or patents or begin any commercial development opportunities in the future?
- Consider the number/quality of each and what was proposed in the original application.

Did the grant enhance the quality and capacity for research at the grantee's institution?

- If any improvements in infrastructure were expected, were they made?
- Were any new investigators added, or were any researchers brought into the institution to help carry out this research?
- Were funds used to pay for research performed by pre- or post-doctoral students?

Did the grant lead to collaboration with research partners outside of the institution or new involvement with the community?

- Are the researchers planning to begin any collaboration as a result of the research?
- For clinical research only: Consider the number of hospitals and health care professionals involved and the extent of penetration of the studies throughout the region or the commonwealth.

Assignment of Performance Review Ratings to Research Projects and Grants

Research projects within each grant are reviewed and assigned an overall rating by a minimum of three reviewers. These reviewers are experts in the technical fields of the grant projects. They also have been screened for conflicts of interest. Reviewers are instructed not to compare research projects to each other, but to base all comments on the documented evaluation criteria.

The final overall rating for a research project is the average rating obtained from all of the reviewers of each project. If a grant consists of only one research project, the overall grant rating will be the average overall rating for the research project. If the grant consists of more than one research project, the overall grant rating is an average rating for all projects funded by the grant.

The performance review ratings are as follows:

1.00 - 1.33 =Outstanding 1.34 - 2.66 =Favorable 2.67 - 3.00 =Unfavorable

The rating is made according to the following guidelines

- Outstanding indicates that: (1) major strengths were identified throughout the project with few, if any, weaknesses; (2) the project met all or most of its stated objectives; and (3) the project is likely to have some beneficial impact.
- Favorable indicates that: (1) strengths were identified within the project with one or more weaknesses; (2) the project met some of its stated objectives and/or made acceptable progress to do so; and/or (3) the project may or may not have a beneficial impact.
- Unfavorable indicates that: (1) major weaknesses were identified that are pervasive throughout the project; (2) the project did not meet any of its objectives or did not make any acceptable progress to meet the objectives; (3) the project is not likely to have any beneficial impact; (4) insufficient data and information were provided to support the fact that the project met any of its objectives or made acceptable progress; or (5) the information and data provided were not applicable to the project objectives listed in the strategic plan.

The overall rating reflects the adequacy of the research activities performed during the funding period, taking into consideration all of the significant attributes identified in the review, including the following categories:

- Major strength an attribute of the project or grant that clearly distinguishes it well above the standards set by the program objectives and that provides compelling justification for continued funding
- Strength a noteworthy attribute of the project or grant compared to the objectives
- Weakness a noteworthy deficiency or flaw compared to program objectives
- Major weakness a very serious, if not fatal, flaw or deficiency compared to the objectives or common research practices

Use and Impact of Performance Review Reports

The department sends a report of the performance review to the grantees. The report includes the overall rating for the grant and the ratings for each research project contained in the grant, as well as reviewer comments on the strengths and weaknesses of the research projects and recommendations for future improvement. The department requires that each grantee submit a written response describing how the weaknesses and recommendations will be addressed in future health research grants.

A grant that receives an unfavorable performance review by the department may be subject to a reduction in funding or become ineligible for health research funding in the future. The consequence of receiving one unfavorable grant rating is a written warning outlining the future

funding impacts of subsequent unfavorable ratings. A second consecutive unfavorable grant rating will render the grantee ineligible to receive any nonformula funds in the next funding cycle and will result in a 25 percent reduction in the amount of formula grant funds that the grantee would have received if there were no reduction. A third consecutive unfavorable grant rating will render the grantee ineligible to receive any nonformula funds in the next funding cycle and will result in a 50 percent reduction in the amount of formula grant funds that the grantee would have received if there were no reduction. A fourth consecutive unfavorable grant rating will render the grantee ineligible to receive any nonformula or formula funds in the next funding cycle.

Outcomes of Performance Reviews Conducted during the 2013-14 State Fiscal Year

Interim Performance Reviews

Interim performance reviews were conducted for the two translational genomics nonformula grants that were awarded during the 2011-12 state fiscal year. The grantees had completed approximately 18 months of work in their four-year grants. The purpose of the interim performance review is to evaluate the overall progress of the research projects to date, identify successful projects, and determine if there are any areas of concern in the research project that can be modified to improve the project before it ends. Both grants received a favorable evaluation.

Final Performance Reviews

During the 2013-14 state fiscal year, final performance reviews were finalized for 34 formula grants and four 2008 nonformula grants. Altogether, these grants provided funding to 249 research projects.

Of the 34 formula grants:

- Five grants received an outstanding evaluation.
- Twenty-nine grants received favorable evaluations.

Of the four nonformula grants:

- One grant received an outstanding evaluation.
- Three grants received favorable evaluations.

Progress Reports for Research Grants Active during SFY 2013-14

This report contains a summary of the research progress made by the 2009-10, 2010-11, 2011-12, and 2012-13 grantees during the 2013-14 state fiscal year (July 1, 2013 – June 30, 2014). For information on grants that ended prior to July 1, 2013, refer to prior annual CURE program reports at <u>www.health.state.pa.us/cure</u>.

Research Development Accomplishments of Formula Grant Recipients

In accordance with Act 2001-77, the Department of Health requested institutions receiving \$400,000 or more in formula funds to describe various initiatives and activities that they would undertake to enhance the commercialization of research results. The grant applications for these institutions included the following information related to commercialization initiatives:

- A plan for licensure and commercial development of research results;
- Copies of standard agreement forms used to license research results;
- A description of opportunities planned to train researchers about licensing and the commercial development of research;
- Outreach efforts planned to inform the business community of research developments at the institution;
- Plans to establish partnerships with postsecondary educational institutions for training students and health professionals in biomedical research; and
- A plan for collaboration with Pennsylvania's Life Sciences Greenhouses and other institutions to participate in the development of research.

Annual progress reports submitted by grantees receiving \$400,000 or more in formula funds included an update describing accomplishments related to these training, outreach, and commercialization activities. A report of research development activities for the 2013-14 state fiscal year is included with each institution's progress report.

Financial Report

Of the \$42,952,000 allocated for the Health Research Program for the state fiscal year 2013-14, \$1,173,112 was committed to a contract for performance review, and \$41,778,888 was unavailable for disbursement. This section of the report provides an overview of the health research funding provisions of Act 2001-77 and summarizes the commitments and expenditures for the grants that were awarded during the 2009-10 through 2012-13 state fiscal years. These are the only grants that may have incurred expenditures during the 2013-14 state fiscal year. The financial reports for grants awarded during prior state fiscal years may be viewed in prior annual CURE reports at <u>www.health.state.pa.us/cure</u>.

Chapter 3 of Act 2001-77 allocates 19 percent of the tobacco settlement funds for health research. Section 906 funds are divided into two separate types of funds. Seventy percent of Section 906 funds are awarded on the basis of a formula calculated using an institution's average award from the NIH for the past three consecutive years (formula funds). The remaining 30 percent of Section 906 funds (called nonformula funds) are awarded as a result of a competitive bid.

Section 908 further breaks down the distribution of the Section 906 formula funds, reserving 20 percent for institutions which averaged more than \$175 million in NIH funding and 17 percent for institutions that averaged more than \$175 million in federally supported research and development funds as reported by the National Science Foundation and more than \$60 million in NIH funding.

Section 909 funds (formula funds) are allocated to institutions on the basis of a formula calculated using an institution's average award from the National Cancer Institute for the past three years. SFY 2013-14 formula funds were unavailable for disbursement due to an unfavorable arbitration ruling in September 2013 in an ongoing dispute over Master Settlement Agreement (MSA) payments between the state and tobacco product manufacturers that participate in the MSA. As a result of the ruling, the state was forced to freeze discretionary funding from the MSA, which reduced funds in the current year's budget for health research (Commonwealth Universal Research Enhancement [CURE] grants). Consequently, no health research formula grants were awarded to Pennsylvania organizations during SFY 2013-14 by the Health Research Program, and no formula funds were expended.

During the 2013-14 state fiscal year, nonformula funds were redirected to other tobacco settlement programs and were not available for the awarding of nonformula grants.

2009-10 Grant Awards and Expenditures

During the 2009-10 state fiscal year, the department awarded \$53,415,200 in formula grants and \$20,088,283 in nonformula grants. Tables 1 and 5 show the amount of the grant awards and the expenditures for the last five state fiscal years.

2010-11 Grant Awards and Expenditures

The department awarded \$44,440,665 in formula grants and \$16,684,527 in nonformula grants. Tables 2 and 6 show the amount of the grant awards and the expenditures for the last four state fiscal years.

2011-12 Grant Awards and Expenditures

The department awarded \$42,126,900 in formula grants and \$15,364,071 in nonformula grants. Tables 3 and 7 show the amount of the grant awards and the expenditures for the last three state fiscal years.

2012-13 Grant Awards and Expenditures

The department awarded \$41,896,467 in formula grants. Table 4 shows the amount of the grant awards and the expenditures for the last two state fiscal years.

2013-14 Grant Awards and Expenditures

A total of \$42,952,000 was allocated for health research formula funds. A portion of the formula funds was set aside for the performance review contract (\$1,173,112). These services were provided by Oak Ridge Associated Universities (ORAU). The remaining formula funds were set aside for the awarding of health research formula grants. During the certification process, 30 organizations indicated that they were eligible and intended to apply for the formula funds. The process of awarding the SFY 2013-14 formula grants was halted, however, in October 2013 due to the freezing of discretionary funding from the Master Settlement Agreement by the state as a result of an unfavorable arbitration ruling. Therefore, no health research formula grants were awarded, and no formula funds were expended during state fiscal year 2013-14.

Anticipated Disbursement Schedule by Fiscal Year

There were no Health Research Grant recipients in the state fiscal year 2013-14. When grant funds are awarded in a fiscal year, recipients are required to invest the funds in an insured interest-bearing account or in accordance with other investment guidelines contained in the grant agreement. Earnings derived from the investments must be applied toward health research projects approved by the department. Any unspent funds at the completion of the grant award period are returned to the department for reinvestment in the tobacco settlement investment account.

Aggregate Amount of Research Grants Awarded to Each Institution

Some institutions received both formula and nonformula grants. Table 8 provides the aggregated amount of research grants awarded to each institution since the inception of the program.

Table 1. 2009-10 Formula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years2009-10; 2010-11; 2011-12; 2012-13 and 2013-14

2009-10 Formula Grant Institutions	Funds Awarded	Expenditures SFY 2009-10*	Expenditures SFY 2010-11*	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Albert Einstein Healthcare Network	\$119,376.00	\$14,491.51	\$47.128.75	\$56,344.60	\$5,185.84	SF1 2013-14 \$0
Allegheny-Singer Research Institute	\$186.525.00	\$25.836.04	\$162,057.34	\$30,344.00	\$0,100.84 \$0	\$0 \$0
American College of Radiology	\$2,043,960.00	\$8,626.10	\$424,959.65	پر \$1,113,664.14	\$245,370.11	هو \$223,347.14
Carnegie Mellon University	\$2,043,960.00	\$61,000.94	\$301,211.41	\$276,551.69	\$184,823.16	\$87,346.27
Children's Hospital of Philadelphia		\$386,125.32		\$723.979.26	. ,	
	\$4,034,902.00	, ,	\$623,885.63	\$263,876.52	\$1,001,931.59 \$70,484.96	\$959,477.26
Children's Hospital of Pittsburgh	\$1,039,905.00	\$62,786.19	\$476,434.88		1 7	\$161,455.43
Drexel University	\$1,431,165.00	\$385,726.92	\$804,243.62	\$74,346.83	\$59,690.65	\$112,750.09
Duquesne University	\$121,663.00	\$12,310.38	\$29,931.49	\$24,080.50	\$20,485.46	\$28,174.76
Fox Chase Cancer Center	\$3,477,323.00	\$948,220.00	\$1,406,174.00	\$704,398.00	\$340,537.00	\$95,318.00
Geisinger Clinic	\$104,117.00	\$2,506.48	\$58,380.41	\$41,516.72	\$0	\$0
Hepatitis B Foundation	\$1,073.00	\$389.20	\$688.20	\$0	\$0	\$0
Lankenau Institute for Medical Research	\$241,281.00	\$122,727.61	\$118,803.07	\$0	\$0	\$0
Lehigh University	\$119,007.00	\$4,835.06	\$31,008.69	\$16,434.57	\$41,674.53	\$27,211.20
Lincoln University	\$23,171.00	\$0	\$9,000.76	\$14,037.15	\$0	\$0
Magee-Womens Research Institute and Foundation	\$1,541,095.00	\$918,721.82	\$622,374.56	\$0	\$0	\$0
Monell Chemical Senses Center	\$240,428.00	\$124,227.81	\$116,300.12	\$0	\$0	\$0
National Disease Research Interchange	\$73,679.00	\$21,233.11	\$44,906.10	\$0	\$0	\$0
National Surgical Adjuvant Breast and Bowel Project (NSABP) Foundation	\$1,255,581.00	\$26,464.52	\$851,910.53	\$264,781.13	\$92,255.15	\$23,444.95
Pennsylvania State University	\$8,412,824.00	\$185,265.00	\$1,458,076.00	\$676,699.00	\$1,980,696.00	\$4,129,965.00
Philadelphia College of Osteopathic Medicine	\$25,305.00	\$0	\$1,069.26	\$822.74	\$401.14	\$23,253.60
Pittsburgh Tissue Engineering Initiative, Inc.	\$12,224.00	\$2,700.00	\$9,565.26	\$0	\$0	\$0
Public Health Management Corporation ¹	\$21,969.00	\$0	\$21,981.37	\$0	\$0	\$0
Salus University ²	\$59,678.00	\$8,681.61	\$51,200.49	\$0	\$0	\$0
Temple University	\$2,375,033.00	\$0	\$690,314.83	\$420,643.52	\$647,114.31	\$0
Thomas Jefferson University	\$3,746,521.00	\$686,689.50	\$1,325,424.44	\$879,871.56	\$452,655.04	\$433,114.55
Treatment Research Institute	\$171,222.00	\$11,733.00	\$102,133.00	\$57,992.00	\$0	\$0
University of Pennsylvania	\$9,897,440.00	\$600,340.82	\$1,958,848.54	\$2,533,751.18	\$3,254,115.37	\$1,243,656.64
University of Pittsburgh	\$9,897,440.00	\$2,470,418.00	\$1,882,402.00	\$2,631,006.00	\$2,576,534.00	\$370,239.00
UPMC McKeesport	\$48,585.00	\$8,550.00	\$15,813.00	\$24,284.47	\$0	\$0
West Chester University of Pennsylvania	\$4,080.00	\$0	\$284.20	\$3,274.26	\$0	\$0
Wistar Institute	\$1,778,081.00	\$938,811.11	\$847,470.30	\$0	\$0	\$0
TOTAL	\$53,415,200.00	\$8,039,418.05	\$14,493,981.90	\$10,802,355.84	\$10,973,954.31	\$7,918,753.89

* Grantees receive the full amount of the grant award at the start of the grant. They must invest the funds in an insured, interest-bearing account and apply earnings derived from the interest toward health research projects. Amounts shown in the expenditures columns include expenditures on funds derived from interest earnings. Therefore, an institution's total expenditures may exceed the amount shown in the "Funds Awarded" column, which shows the amount of the original grant award, excluding any interest earned. ¹ Formerly known as Philadelphia Health Management Corporation ² Formerly known as Pennsylvania College of Optometry

Table 2. 2010-11 Formula Grants— Funds Awarded and Summary of Expenditures for State Fiscal Years2010-11; 2011-12; 2012-13 and 2013-14

2010-11 Formula Grant Institutions	Funds Awarded	Expenditures SFY 2010-11*	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Albert Einstein Healthcare Network	\$74,176.00	\$16,357.85	\$27,343.73	\$30,550.33	\$0
Allegheny-Singer Research Institute	\$120,384.00	\$81,034.28	\$39,239.17	\$0	\$0
American College of Radiology	\$1,700,785.00	\$55,754.87	\$309,793.82	\$249,250.87	\$433,782.02
Carnegie Mellon University	\$860,191.00	\$3,173.18	\$176,038.26	\$370,447.84	\$286,055.28
Children's Hospital of Philadelphia	\$3,548,977.00	\$124,690.81	\$574,061.80	\$1,009,668.47	\$1,057,210.70
Children's Hospital of Pittsburgh	\$527,174.00	\$59,678.80	\$229,628.10	\$219,468.03	\$0
Drexel University	\$1,275,294.00	\$94,346.47	\$923,584.57	\$169,233.83	\$92,512.02
Duquesne University	\$116,091.00	\$19,739.02	\$53,106.39	\$16,598.28	\$13,037.64
Fox Chase Cancer Center	\$2,851,328.00	\$622,203.00	\$1,250,433.00	\$796,396.00	\$193,506.00
Geisinger Clinic	\$80,673.00	\$0	\$80,695.55	\$0	\$0
Haverford College	\$30,855.00	\$2,301.00	\$9,005.00	\$7,061.00	\$5,734.00
Hepatitis B Foundation	\$859.00	\$374.50	\$485.28	\$0	\$0
Indiana University of Pennsylvania	\$9,268.00	\$0	\$2,665.01	\$1,391.44	\$4,071.82
Institute for Hepatitis and Virus Research	\$16,013.00	\$4,334.00	\$11,681.67	\$0	\$0
Lankenau Institute for Medical Research	\$175,518.00	\$77,932.36	\$97,649.10	\$0	\$0
Lehigh University	\$88,081.00	\$11,767.85	\$69,672.69	\$6,956.46	\$0
Lincoln University	\$33,493.00	\$2,500.00	\$30,998.90	\$0	\$0
Madlyn and Leonard Abramson Center for Jewish Life	\$17,571.00	\$0	\$17,589.60	\$0	\$0
Magee-Womens Research Institute and Foundation	\$1,209,415.00	\$448,831.81	\$760,592.25	\$0	\$0
Monell Chemical Senses Center	\$216,916.00	\$66,852.40	\$150,113.84	\$0	\$0
National Disease Research Interchange	\$62,393.00	\$27,700.07	\$26,292.41	\$8,453.52	\$0
National Surgical Adjuvant Breast and Bowel Project					
(NSABP) Foundation	\$967,922.00	\$17,345.92	\$316,642.29	\$347,026.87	\$71,014.83
Pennsylvania State University	\$7,001,127.00	\$897,653.00	\$1,558,769.00	\$2,382,554.00	\$1,559,319.00
Philadelphia College of Osteopathic Medicine	\$19,326.00	\$5,314.65	\$3,450.45	\$1,616.52	\$9,023.19
Pittsburgh Tissue Engineering Initiative, Inc.	\$9,815.00	\$1,066.48	\$8,759.19	\$0	\$0
Public Health Management Corporation ¹	\$17,081.00	\$153.76	\$16,952.86	\$0	\$0
Salus University ²	\$45,203.00	\$8,732.36	\$36,511.52	\$0	\$0
Temple University	\$2,050,596.00	\$0	\$747,950.60	\$459,349.64	\$158,144.69
Thomas Jefferson University	\$3,085,950.00	\$182,305.61	\$1,285,901.40	\$1,078,311.82	\$421,661.70
Treatment Research Institute	\$139,351.00	\$12,280.00	\$78,857.00	\$48,832.00	\$0
University of Pennsylvania	\$8,236,620.00	\$151,026.83	\$2,679,609.46	\$1,724,083.80	\$2,103,350.05
University of Pittsburgh	\$8,236,620.00	\$1,007,002.00	\$2,673,345.00	\$2,643,538.00	\$1,250,056.00
UPMC McKeesport	\$32,934.00	\$0	\$32,942.82	\$0	\$0
Wistar Institute	\$1,582,665.00	\$558,727.67	\$1,039,567.95	\$0	\$0
TOTAL	\$44,440,665.00	\$4,561,180.55	\$15,319,929.68	\$11,570,788.72	\$7,658,478.94

* See footnote on Table 1.

¹ Formerly known as Philadelphia Health Management Corporation ² Formerly known as Pennsylvania College of Optometry

Table 3. 2011-12 Formula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years2011-12; 2012-13 and 2013-14

2011-12 Formula Grant Institutions	Funds Awarded	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Albert Einstein Healthcare Network	\$52,011.00	\$17,090.50	\$34,926.89	\$0
Allegheny-Singer Research Institute	\$98,254.00	\$15,540.03	\$83,126.27	\$0
American College of Radiology	\$1,777,126.00	\$29,336.40	\$278,096.35	\$552,813.06
Carnegie Mellon University	\$943,032.00	\$12,813.20	\$298,218.95	\$187,792.17
Children's Hospital of Philadelphia	\$3,521,179.00	\$185,024.88	\$787,484.70	\$832,433.80
Children's Hospital of Pittsburgh	\$228,401.00	\$75,380.48	\$146,650.35	\$0
Drexel University	\$1,320,271.00	\$196,185.28	\$901,616.09	\$190,035.00
Duquesne University	\$107,464.00	\$6,956.87	\$72,214.19	\$20,614.43
Fox Chase Cancer Center	\$2,472,183.00	\$1,004,939.00	\$1,171,868.00	\$301,082.00
Geisinger Clinic	\$75,516.00	\$13,559.74	\$47,475.80	\$0
Haverford College	\$28,802.00	\$9,737.00	\$12,428.00	\$6,652.00
Hepatitis B Foundation	\$654.00	\$282.50	\$371.76	\$0
Lankenau Institute for Medical Research	\$136,919.00	\$63,762.36	\$73,192.85	\$0
Lehigh University	\$80,151.00	\$8,829.43	\$37,964.35	\$34,225.77
Lincoln University	\$47,451.00	\$34,262.73	\$11,096.55	\$0
Magee-Womens Research Institute and Foundation	\$971,921.00	\$379,173.21	\$592,751.31	\$0
Monell Chemical Senses Center	\$210,715.00	\$77,210.70	\$133,569.87	\$0
National Disease Research Interchange	\$59,685.00	\$10,879.88	\$48,832.96	\$0
National Surgical Adjuvant Breast and Bowel Project (NSABP) Foundation	\$851,360.00	\$7,717.06	\$379,648.61	\$210,490.28
Pennsylvania State University	\$6,637,701.00	\$257,664.00	\$681,596.00	\$1,302,116.00
Philadelphia College of Osteopathic Medicine	\$16,761.00	\$4,528.77	\$1,793.42	\$0
Pittsburgh Tissue Engineering Initiative, Inc.	\$8,731.00	\$5,618.99	\$1,876.01	\$0
Salus University 1	\$39,748.00	\$3,787.07	\$36,030.89	\$0
Temple University	\$2,186,053.00	\$254,153.71	\$175,940.42	\$1,085,580.06
Thomas Jefferson University	\$2,899,793.00	\$870,269.87	\$765,464.19	\$382,140.22
Treatment Research Institute	\$155,813.00	\$20,320.00	\$103,644.00	\$32,218.00
University of Pennsylvania	\$7,809,060.00	\$201,675.09	\$1,760,420.38	\$1,166,104.74
University of Pittsburgh	\$7,809,060.00	\$641,269.00	\$2,542,040.00	\$1,971,007.00
University of the Sciences in Philadelphia	\$32,583.00	\$0	\$7,343.47	\$9,002.95
Wistar Institute	\$1,548,502.00	\$740,018.42	\$814,367.06	\$0
TOTAL	\$42,126,900.00	\$5,147,986.17	\$12,002,049.69	\$8,284,307.48

* See footnote on Table 1.

¹ Formerly known as Pennsylvania College of Optometry

Table 4. 2012-13 Formula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years 2012-13 and 2013-14

2012-13 Formula Grant Institutions	Funds Awarded	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Albert Einstein Healthcare Network	\$61,734.00	\$13,371.03	\$48,433.14
Allegheny-Singer Research Institute	\$79,614.00	\$19,184.02	\$48,454.71
American College of Radiology	\$1,851,408.00	\$0	\$291,854.15
Carnegie Mellon University	\$1,028,926.00	\$44,624.73	\$114,736.42
Children's Hospital of Philadelphia	\$3,713,220.00	\$183,703.98	\$1,020,817.92
Drexel University	\$1,401,259.00	\$187,281.27	\$933,669.04
Duquesne University	\$100,224.00	\$16,090.81	\$28,347.88
Geisinger Clinic	\$110,249.00	\$15,100.54	\$58,502.56
Haverford College	\$18,238.00	\$2,445.18	\$2,869.00
Hepatitis B Foundation	\$720.00	\$360.00	\$360.28
Institute for Cancer Research ¹	\$2,176,686.00	\$380,307.00	\$1,722,373.00
Lankenau Institute for Medical Research	\$115,879.00	\$59,794.05	\$30,885.16
Lehigh University	\$75,533.00	\$5,032.50	\$38,180.84
Lincoln University	\$44,916.00	\$0	\$34,428.25
Magee-Womens Research Institute and Foundation	\$1,017,609.00	\$475,875.97	\$541,777.22
Monell Chemical Senses Center	\$234,200.00	\$93,320.64	\$140,941.48
National Disease Research Interchange	\$56,394.00	\$11,812.81	\$44,618.33
National Surgical Adjuvant Breast and Bowel Project (NSABP) Foundation	\$967,037.00	\$0	\$306,423.85
Pennsylvania State University	\$6,589,749.00	\$123,596.00	\$346,788.00
Philadelphia College of Osteopathic Medicine	\$14,266.00	\$5,117.90	\$452.36
Salus University ²	\$40,030.00	\$2,524.79	\$0
Temple University	\$2,220,937.00	\$938,946.07	\$629,040.74
Thomas Jefferson University	\$2,776,880.00	\$525,803.34	\$1,153,013.66
Treatment Research Institute	\$174,793.00	\$7,706.00	\$167,510.00
University of Pennsylvania	\$7,752,646.00	\$247,241.74	\$4,485,746.64
University of Pittsburgh	\$7,752,646.00	\$782,140.00	\$3,174,804.00
University of the Sciences in Philadelphia	\$29,488.00	\$0	\$15,043.35
Wistar Institute	\$1,491,186.00	\$646,178.82	\$850,245.47
TOTAL	\$41,896,467.00	\$4,787,559.19	\$16,230,317.45

* See footnote on Table 1.

¹ Formerly known as Fox Chase Cancer Center ² Formerly known as Pennsylvania College of Optometry

Table 5. 2009-10 Nonformula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years 2009-10; 2010-11; 2011-12; 2012-13 and 2013-14

2009-10 Nonformula Grant Institutions	Funds Awarded	Expenditures SFY 2009-10*	Expenditures SFY 2010-11*	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Drexel University						
(Cancer vaccines)	\$2,769,497.00	\$1,718.30	\$478,145.85	\$629,451.04	\$731,399.40	\$975,143.84
Thomas Jefferson University						
(Cancer vaccines)	\$4,500,000.00	\$17,088.28	\$858,421.41	\$956,065.27	\$1,161,159.23	\$1,294,079.55
University of Pennsylvania (Cancer vaccines)	\$4,620,420.00	\$11,138.30	\$974,282.29	\$1,058,013.19	\$914,380.43	\$1,663,830.09
University of Pennsylvania (Blindness and visual impairment)	\$4,600,000.00	\$28,095.59	\$1,486,546.38	\$1,331,466.21	\$1,008,977.42	\$749,596.77
Wills Eye Health System (Blindness and visual impairment)	\$3,598,366.00	\$2,874.48	\$747,470.72	\$800,607.21	\$814,369.69	\$1,000,194.04
TOTAL	\$20,088,283.00	\$60,914.95	\$4,544,866.65	\$4,775,602.92	\$4,630,286.17	\$5,682,844.29

* See footnote on Table 1.

Table 6. 2010-11 Nonformula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years 2010-11; 2011-12; 2012-13 and 2013-14

2010-11 Nonformula Grant Institutions	Funds Awarded	Expenditures SFY 2010-11*	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Pennsylvania State University					
(Substance abuse)	\$2,191,427.00	\$0	\$502,175.09	\$491,233.52	\$523,221.75
Treatment Research Institute					
(Substance abuse)	\$4,493,185.00	\$3,338.00	\$539,778.00	\$1,068,633.00	\$1,273,261.00
University of Pennsylvania					
(Substance abuse)	\$4,999,999.00	\$11,653.42	\$1,024,485.01	\$1,667,875.18	\$1,461,356.32
University of Pittsburgh					
(Substance abuse)	\$4,999,916.00	\$0	\$1,022,089.76	\$941,514.59	\$1,124,199.15
TOTAL	\$16,684,527.00	\$14,991.42	\$3,088,527.86	\$4,169,256.29	\$4,382,038.22

* See footnote on Table 1.

Table 7. 2011-12 Nonformula Grants — Funds Awarded and Summary of Expenditures for State Fiscal Years 2011-12; 2012-13 and 2013-14

2011-12 Nonformula Grant Institutions	Funds Awarded	Expenditures SFY 2011-12*	Expenditures SFY 2012-13*	Expenditures SFY 2013-14*
Apogee Biotechnology Corporation				
(Cancer commercialization)	\$832,608.00	\$62,616.68	\$489,326.26	\$282,119.40
Carnegie Mellon University				
(Cancer commercialization)	\$983,783.00	\$0	\$263,884.79	\$662,942.09
Geisinger Clinic				
(Cancer commercialization)	\$1,000,000.00	\$3,991.55	\$405,945.75	\$498,410.44
Institute for Hepatitis and Virus Research				
(Cancer commercialization)	\$909,170.00	\$5,588.00	\$379,464.00	\$437,439.00
Oncoceutics, Inc.				
(Cancer commercialization)	\$1,295,646.00	\$0	\$247,439.77	\$1,051,203.00
The Pennsylvania State University				
(Cancer commercialization)	\$1,000,000.00	\$6,824.61	\$326,424.37	\$412,504.59
Thomas Jefferson University				
(Cancer commercialization)	\$744,156.00	\$0	\$305,078.98	\$439,077.02
UE Sciences Inc.				
(Cancer commercialization)	\$878,244.00	\$38,662.50	\$415,481.46	\$317,016.41
University of Pennsylvania				
(Cancer commercialization)	\$1,000,000.00	\$0	\$377,007.11	\$616,671.65
The Wistar Institute				
(Cancer commercialization)	\$991,990.00	\$10,769.60	\$357,134.29	\$542,382.76
Geisinger Clinic				
(Translational genomics)	\$2,909,969.00	\$22,593.59	\$413,990.00	\$604,197.70
University of Pennsylvania				
(Translational genomics)	\$2,818,505.00	\$0	\$383,451.06	\$781,928.73
TOTAL	\$15,364,071.00	\$151,046.53	\$4,364,627.84	\$6,645,892.79

* See footnote on Table 1.

Table 8. Total Grants Awards — Formula and Nonformula Funds Awarded for State Fiscal Years 2001-02; 2002-03; 2003-04; 2004-05; 2005-06; 2006-07; 2007-08; 2008-09; 2009-10; 2010-11; 2011-12; 2012-13 and 2013-14

ALL FORMULA AND NONFORMULA GRANT INSTITUTIONS		SFY TOTAL AWARDS				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$96,908	\$168,475	\$186,128	\$182,685	\$165,620	
Albert Einstein Healthcare Network	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢4 504 000
Albert Einstein Healthcare Network	\$147,561	\$141,075	\$135,484	\$119,376	\$74,176	\$1,531,233
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$52,011	\$61,734	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$4,240,705	\$307,259	\$264,887	\$209,634	\$226,528	
Allegheny-Singer Research Institute	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$6,397,791
Allegheny-Singer Research Institute	\$223,389	\$237,838	\$202,774	\$186,525	\$120,384	\$0,597,791
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$98,254	\$79,614	\$0			
American Aging Association	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$1,875	\$1,706	\$1,699	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$8,727
	\$1,638	\$1,809	\$0	\$0	\$0	\$0,7 <i>21</i>
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	\$511,423
	\$0	\$142,976	\$115,950	\$89,360	\$83,371	
American Association for Cancer Research	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
American Association for Cancer Research	\$79,766	\$0	\$0	\$0	\$0	\$311,4Z3
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$2,053,097	\$2,156,639	\$2,372,081	\$2,590,126	
American College of Dediclosy	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$23,634,802
American College of Radiology	\$2,511,654	\$2,433,581	\$2,144,345	\$2,043,960	\$1,700,785	\$Z3,034,00Z
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$1,777,126	\$1,851,408	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
Apogee Biotechnology Corporation	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$832,608
Apogee Biolechnology Corporation	\$0	\$0	\$0	\$0	\$0	<i>ф</i> 032,000
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$832,608	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$17,426	
Arcadia University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢20 504
Arcadia University	\$15,155	\$0	\$0	\$0	\$0	\$32,581
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			

ALL FORMULA AND NONFORMULA GRANT INSTITUTIONS		SFY TOTAL AWARDS					
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$9,368	\$8,581	\$10,932	\$9,536	\$9,544		
Bryn Mawr College	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$82,486	
Bryn Mawr College	\$10,431	\$11,524	\$12,570	\$0	\$0	ψ02,400	
	SFY 2011-12	SFY 2012-13	SFY 2013-14				
	\$0	\$0	\$0				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$4,362,007	\$1,081,443	\$962,758	\$822,602	\$737,186		
Carnegie Mellon University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$14,800,523	
Carriegie Menori Oniversity	\$649,424	\$710,806	\$747,818	\$910,547	\$860,191	ψ14,000,020	
	SFY 2011-12	SFY 2012-13	SFY 2013-14				
	\$1,926,815	\$1,028,926	\$0				
Children's Hospital of Philadelphia	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$2,800,005	\$3,727,099	\$3,657,085	\$8,419,246	\$7,612,406	\$58,309,020	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11		
	\$3,315,523	\$5,609,842	\$8,349,536	\$4,034,902	\$3,548,977		
	SFY 2011-12	SFY 2012-13	SFY 2013-14				
	\$3,521,179	\$3,713,220	\$0				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$479,289	\$720,940	\$723,892	\$700,355	\$722,169		
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	^	
Children's Hospital of Pittsburgh	\$732,956	\$879,637	\$958,038	\$1,039,905	\$527,174	\$7,712,75	
	SFY 2011-12	SFY 2012-13	SFY 2013-14				
	\$228,401	\$0	\$0				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$15,998	\$0	\$0	\$0	\$0		
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11		
Delaware Water Gap Science Institute	\$0	\$0	\$0	\$0	\$0	\$15,998	
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψũ	ψũ		
	\$0	\$0	\$0				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$39,698	\$55,570	\$46,918	\$34,542	\$21,219		
Donald Guthrie Foundation for Education and	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11		
Research	\$0	\$0	\$0	\$0	\$0	\$197,94	
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψυ	φυ		
	\$0	\$0	\$0				
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06		
	\$164,560	\$197,969	\$6,130,470	\$1,100,707	\$1,055,561		
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11		
Drexel University *	\$1,048,705	1,138,730	\$1,215,241	\$4,200,662	\$1,275,294	\$20,249,42	
	SFY 2011-12	SFY 2012-13	SFY 2013-14	φ 4 ,200,002	\$1,275,294	φ <u>2</u> 0,210,120	
	\$1,320,271	\$1,401,259	\$0				

	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$2,243,051	\$1,445,034	\$0	\$0	\$0	
Drexel University College of Medicine *	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$3,688,08
, 0	\$0	\$0	\$0	\$0	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$75,689	\$100,115	\$89,848	\$89,469	\$82,990	
Duquesne University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$1,133,55
	\$71,320	\$84,549	\$94,131	\$121,663	\$116,091	ψ1,100,00
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$107,464	\$100,224	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$18,107	\$14,582	\$12,184	
Family Planning Council	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$44,87
Family Planning Council	\$0	\$0	\$0	\$0	\$0	ə44,07
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	\$5,311,95
	\$167,916	\$183,198	\$163,358	\$128,587	\$110,724	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
Geisinger Clinic	\$89,315	\$92,771	\$95,564	\$104,117	\$80,673	
	SFY 2011-12	SFY 2012-13	SFY 2013-14	+ - /	+ ,	
	\$3,985,485	\$110,249	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
Haverford College	\$0	\$0	\$0	\$0	\$30,855	\$77,89
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ΨŬ	400,000	
	\$28,802	\$18,238	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
Hepatitis B Foundation	\$5,368	\$3,707	\$2,537	\$1,073	\$859	\$14,91
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψ1,070	φοσσ	
	\$654	\$720	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$4,962	\$6,378	\$5,090	SF1 2004-05 \$0	\$0	
	54,962 SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	50 SFY 2010-11	
Immaculata University						\$16,43
-	\$0	\$0	\$0 SEX 2042 44	\$0	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			

	CEV 2004 02	CEV 2002 02	CEV 2002 04			
Indiana University of Pennsylvania	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0 SFY 2006-07	\$0 SFY 2007-08	\$0 SFY 2008-09	\$0 SFY 2009-10	\$0 SFY 2010-11	
						\$9,268
	\$0	\$0 SFY 2012-13	\$0 SFY 2013-14	\$0	\$9,268	
	SFY 2011-12					
	\$0 SFY 2001-02	\$0 SFY 2002-03	\$0 SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$3,831,779	\$4,508,784 SFY 2007-08	\$3,818,851	\$3,195,298	\$3,001,121	
Institute for Cancer Research *	SFY 2006-07		SFY 2008-09	SFY 2009-10	SFY 2010-11	\$38,271,52
	\$2,768,335	\$3,038,276	\$3,131,563	\$3,477,323	\$2,851,328	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$2,472,183	\$2,176,686	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
Institute for Hepatitis and Virus Research	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$925,183
	\$0	\$0	\$0	\$0	\$16,013	<i>\$</i> 020,100
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$909,170	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$9,495	
Juniata College	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$18,840
Sumata Concege	\$9,345	\$0	\$0	\$0	\$0	φ10,0-
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$307,220	\$409,168	\$346,399	\$287,621	\$244,328	
Lankenau Institute for Medical Research	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$2,914,19
	\$212,216	\$214,033	\$223,613	\$241,281	\$175,518	φ2,914,19
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$136,919	\$115,879	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$84,515	\$117,425	\$127,442	\$131,021	\$130,662	
Labiah Llaivaraity	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢4 005 400
Lehigh University	\$116,229	\$116,442	\$108,901	\$119,007	\$88,081	\$1,295,409
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$80,151	\$75,533	\$0			
Lincoln University *	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$17,070	\$19,364	\$21,977	\$22,412	\$20,913	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$0	\$0	\$0	\$23,171	\$33,493	\$250,76
	SFY 2011-12	SFY 2012-13	SFY 2013-14	<i>q</i> =0,1	<i>400,00</i>	
	\$47,451	\$44,916	\$0			
Madlyn and Leonard Abramson Center for Jewish Life	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	\$234,47
	\$32,827	\$41,864	\$48,506	\$39,055	\$35,639	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
		SFT 2007-08 \$0	SF1 2008-09 \$0	SFT 2009-10 \$0		
	\$19,011 SFY 2011-12	SFY 2012-13	SFY 2013-14	φU	\$17,571	
	\$0	\$0	\$0			

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					\$10,568,27
. ,	. ,		\$1,541,095	\$1,209,415	\$10,000,210
		÷ -			
\$0			\$58,488	\$50,384	
	SFY 2007-08			SFY 2010-11	\$228,72
	\$0		\$0	\$0	φ220,72
	SFY 2012-13	SFY 2013-14			
\$0	\$0	\$0			
SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
\$28,721	\$0	\$0	\$0	\$0	
SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢00 70/
\$0	\$0	\$0	\$0	\$0	\$28,72 [,]
SFY 2011-12	SFY 2012-13	SFY 2013-14			
\$0	\$0	\$0			
SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
\$257,357	\$312,634	\$284,558	\$302,317	\$281,629	
SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	* ~ ~ ~ / /
\$256,897	\$213,928	\$217,894	\$240,428	\$216,916	\$3,029,47
SFY 2011-12	SFY 2012-13	SFY 2013-14			
\$210,715		\$0			
SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
\$218,236	\$266,553	\$246,020	\$193,969	\$160,481	
SFY 2006-07					A 4 400 4 F
\$160,944	\$136,227	\$115,727	\$0	\$0	\$1,498,157
SFY 2011-12	SFY 2012-13	SFY 2013-14			
\$0	\$0	\$0			
SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
\$57,995	\$80,999	\$77,132	\$59,884	\$55,546	
SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
\$49,644	\$53,760	\$58,338	\$73,679	\$62,393	\$745,449
SFY 2011-12					
\$59.685					
	,		SFY 2004-05	SFY 2005-06	\$13,646,64
÷ -			. , ,	.,,,	
			ψ1,200,001	ψυσι,υΖΖ	
\$851,360	\$967,037	\$0			
	SFY 2006-07 \$0 SFY 2011-12 \$0 SFY 2001-02 \$28,721 SFY 2006-07 \$0 SFY 2006-07 \$0 SFY 2001-02 \$257,357 SFY 2001-02 \$257,357 SFY 2001-02 \$210,715 SFY 2001-02 \$218,236 SFY 2001-02 \$218,236 SFY 2001-02 \$57,995 SFY 2001-02 \$59,685 SFY 2001-02 \$0 SFY 2006-07 \$1,286,019 SFY 2001-02 \$0 SFY 2006-07 \$1,286,019 SFY 2011-12	\$544,531 \$681,269 SFY 2006-07 SFY 2007-08 \$598,185 \$894,069 SFY 2011-12 SFY 2012-13 \$971,921 \$1,017,609 SFY 2001-02 SFY 2002-03 \$0 \$57,612 SFY 2006-07 SFY 2002-03 \$0 \$57,612 SFY 2006-07 SFY 2007-08 \$0 \$0 \$0 \$57,612 SFY 2006-07 SFY 2007-08 \$0 \$0 \$0 \$0 SFY 201-02 SFY 2002-03 \$28,721 \$0 SFY 2001-02 SFY 2007-08 \$0 \$0 SFY 2001-02 SFY 2002-03 \$257,357 \$312,634 SFY 2001-02 SFY 2007-08 \$256,897 \$213,928 SFY 201-12 SFY 2007-08 \$256,897 \$213,928 SFY 2001-02 SFY 2007-08 \$256,897 \$213,928 SFY 2001-02 SFY 2007-08 \$24266,553 SFY 2	\$544,531 \$681,269 \$683,748 SFY 2006-07 SFY 2007-08 SFY 2008-09 \$598,185 \$894,069 \$1,194,952 SFY 2011-12 SFY 2012-13 SFY 2013-14 \$971,921 \$1,017,609 \$0 \$0 \$57,612 \$62,239 SFY 2001-02 SFY 2007-08 SFY 2003-04 \$0 \$57,612 \$62,239 SFY 2006-07 SFY 2007-08 SFY 2008-09 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1201-12 SFY 2007-08 SFY 2008-09 \$0 \$0 \$0 \$0 \$12001-02 SFY 2002-03 SFY 2003-04 \$257,357 \$312,634 \$224,558 SFY 2001-02 SFY 2007-08 SFY 2008-09 \$256,897 \$213,928 \$217,894 SFY 2001-02 SF	\$544,531 \$681,269 \$683,748 \$631,282 SFY 2006-07 SFY 2007-08 SFY 2008-09 \$FY 2009-10 \$598,185 \$894,069 \$1,194,952 \$1,541,095 SFY 2011-12 SFY 2012-13 SFY 2003-04 \$FY 2004-05 \$97,921 \$1,017,609 \$0 \$57,612 \$62,239 \$58,488 SFY 2001-02 SFY 2007-08 SFY 2008-09 SFY 2009-10 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$544,531 \$681,269 \$683,748 \$631,282 \$600,197 SFY 2006-07 SFY 2007-08 SFY 2008-09 SFY 2009-10 SFY 2010-11 \$598,185 \$894,069 \$1,194,952 \$1,541,095 \$1,209,415 SFY 2011-12 SFY 2012-13 SFY 2013-14 \$971,921 \$1,017,609 \$0 SFY 2001-02 SFY 2002-03 SFY 2008-09 SFY 2009-10 SFY 2010-11 \$0 \$0 \$57,612 \$62,233 \$58,488 \$\$50,384 SFY 2006-07 SFY 2007-08 SFY 2008-09 SFY 2009-10 SFY 2010-11 \$0 \$0 \$0 \$0 \$0 \$0 SFY 2001-02 SFY 2002-03 SFY 2003-04 SFY 2009-10 SFY 2005-06 \$28,721 \$0 \$0 \$0 \$0 \$0 \$0 SFY 2001-02 SFY 2002-03 SFY 2003-04 SFY 2009-10 SFY 2005-06 \$257,257 \$312,634 \$240,428 \$2210,11 \$256,897 \$212,639 SFY 2006-07 SFY 2002-03 SFY 2003-04

	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
Oncoceutics, Inc.	\$0	\$0	\$0	\$0	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$0	\$0	\$0	\$0	\$0	\$1,295,64
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψŪ	ΨΟ	
	\$1,295,646	\$0 \$0	SF1 2013-14 \$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
						\$213,34
	\$24,693	\$28,676	\$33,420	\$31,527	\$32,860	
Oncology Nursing Society	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$26,655	\$23,037	\$12,473	\$0	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$7,390,257	\$9,286,165	\$13,948,556	\$8,225,637	\$7,845,194	
Pennsylvania State University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$109,016,09
Fennisylvania State University	\$11,408,096	\$11,450,510	\$7,628,852	\$8,412,824	\$9,192,554	\$109,010,09
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$7,637,701	\$6,589,749	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$9,517	\$16,087	\$0	\$0	\$0	
Dhile delahis Oelle ee ef Oete ee ethis Medicie e	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢450.04
Philadelphia College of Osteopathic Medicine	\$15,859	\$19,760	\$17,036	\$25,305	\$19,326	\$153,9 [,]
	SFY 2011-12	SFY 2012-13	SFY 2013-14	+ -,	+ - /	
	\$16,761	\$14,266	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$55,224	\$66,088	\$62,772	\$42,916	\$29,970	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	*
Philadelphia FIGHT	\$0	\$0	\$0	\$0	\$0	\$256,97
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$22,965	\$23,447	\$26,589	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
Pittsburgh Tissue Engineering Initiative	\$25,651	\$21,247	\$15,697	\$12,224	\$9,815	\$166,366
	SFY 2011-12	SFY 2012-13	SFY 2013-14	· · _, ·	\$0,010	
	\$8,731	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
Public Health Management Corporation *	\$0	\$0	\$19,349	\$11,489	\$6,505	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$7,898	\$14,218	\$20,369	\$21,969	\$17,081	\$118,87
	SFY 2011-12	SFY 2012-13	SFY 2013-14	φz 1,909	φ17,001	
	SF1 2011-12 \$0	SFT 2012-13 \$0	SFT 2013-14 \$0			
Salus University *	مور SFY 2001-02	5FY 2002-03	5FY 2003-04	SFY 2004-05	SFY 2005-06	
	\$38,785	\$47,559	\$48,971	\$45,969	\$52,203	\$594,90
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$52,788	\$63,639	\$60,332	\$59,678	\$45,203	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$39,748	\$40,030	\$0			

Swarthmore College	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$7,697	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$7,697
	\$0	\$0	\$0	\$0	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$2,189,275	\$8,231,989	\$7,351,100	\$2,165,659	\$6,186,915	
Temple University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$40,760,388
	\$1,839,493	\$1,957,901	\$2,005,437	\$2,375,033	\$2,050,596	φ+0,700,000
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$2,186,053	\$2,220,937	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$4,922,826	\$6,229,638	\$5,488,272	\$8,200,818	\$8,413,995	
Themas lefferson Liniversity	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢c4 700 600
Thomas Jefferson University	\$3,674,642	\$3,591,514	\$3,455,597	\$8,246,521	\$3,085,950	\$61,730,602
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$3,643,949	\$2,776,880	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$62,697	\$75,727	\$78,251	\$97,407	
— · · · — · · · · · · · ·	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	^
Treatment Research Institute	\$119,268	\$148,376	\$158,950	\$171,222	\$4,632,536	\$5,875,040
	SFY 2011-12	SFY 2012-13	SFY 2013-14	+ · · · ,	+ .,,	
	\$155,813	\$174,793	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
UE LifeSciences Inc.	\$0	\$0	\$0	\$0	\$0	\$878,244
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψŬ	ΨΟ	
	\$878,244	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
University of Pennsylvania	\$8,694,420	\$19,312,867	\$15,657,124	\$16,302,480	\$11,229,640	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$16,885,133	\$16,698,663	\$14,506,173	\$19,117,860	\$13,236,619	\$171,021,190
	SFY 2011-12	SFY 2012-13	SFY 2013-14	ψ10,117,000	ψ10,200,010	
	\$11,627,565	\$7,752,646	\$0			
University of Pittsburgh	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	\$156,005,917
			\$10,877,580	\$14,547,334		
	\$20,288,781	\$20,278,241	. , ,	1 7 7	\$13,381,559	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$8,472,940	\$12,801,469	\$16,662,331	\$9,897,440	\$13,236,536	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$7,809,060	\$7,752,646	\$0			

	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
University of the Sciences in Philadelphia	\$12,149	\$9,779	\$0	\$0	\$0	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$83,999
	\$0	\$0	\$0	\$0	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$32,583	\$29,488	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
UPMC McKeesport	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$240,07
UPINC Mickeespon	\$58,248	\$47,237	\$53,071	\$48,585	\$32,934	\$240,073
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$0	\$0	\$0	\$0	\$0	
West Chaster University	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	\$4,080
West Chester University	\$0	\$0	\$0	\$4,080	\$0	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	¢0.050.74
	\$11,119	\$11,779	\$11,748	\$9,146	\$8,591	
Wills Eve Llealth System *	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
Wills Eye Health System *	\$0	\$0	\$0	\$3,598,366	\$0	\$3,650,74
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$0	\$0	\$0			
	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	
	\$1,397,012	\$1,751,632	\$5,099,020	\$1,531,984	\$1,474,006	
Mister Institute	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	¢07454.00
Wistar Institute	\$5,569,982	\$1,473,209	\$1,461,800	\$1,778,081	\$1,582,665	\$27,151,06
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$2,540,492	\$1,491,186	\$0			
TOTAL — ALL INSTITUTIONS	SFY 2001-02	SFY 2002-03	SFY 2003-04	SFY 2004-05	SFY 2005-06	\$797,495,302
	\$65,114,465	\$82,027,003	\$81,225,929	\$72,177,508	\$68,413,215	
	SFY 2006-07	SFY 2007-08	SFY 2008-09	SFY 2009-10	SFY 2010-11	
	\$62,535,683	\$65,629,448	\$66,355,938	\$73,503,483	\$61,125,192	
	SFY 2011-12	SFY 2012-13	SFY 2013-14			
	\$57,490,971	\$41,896,467	\$0			

* Drexel University College of Medicine, originally MCP Hahnemann in SFY 2001-02, was combined with Drexel University in SFY 2003-04.

* Lincoln University did not start their SFY2006-07 grant and returned their entire formula grant award \$15,403 + interest \$595.74 to the commonwealth on 9/9/08.

* Public Health Management Corporation was formerly known as Philadelphia Health Management Corporation (July 2008).

* Salus University was formerly known as Pennsylvania College of Optometry (July 2008).

* Wills Eye Health System was formerly known as Wills Eye Hospital (July 2009).

* Institute for Cancer Research was formerly known as Fox Chase Cancer Center (July 2012).