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#	Add/ Remove Selection	Identifier	Abstract	Principal Investigator	Annual/ Final Reports	Pubs Count	Institution	Grant Representative	Grant Amount	Project Period
<< STAR GRANTS AND STAR CENTERS >>										
1	<input type="checkbox"/>	R834900 <a href="#">Grant</a>	<a href="#">Are Diabetics and the Neurologically Impaired at Increased Risk from Air Pollutant Exposures? A National Analysis</a>	Zanobetti, Antonella Dominici, Francesca Koutrakis, Petros Schwartz, Joel Wang, Yun	<a href="#">2011</a> <a href="#">2012</a> <a href="#">2013</a>	Total Pubs: 7 Journals: 3 -- No Books --	Harvard School of Public Health, Johns Hopkins University	Ilacqua, Vito	\$299,903	April 2011 - March 2014 (Extended to March 2015)
2	<input type="checkbox"/>	R834798C004 <a href="#">Centers</a>  - This is a subproject of the <a href="#">Air Pollution Mixtures: Health Effects across Life Stages</a>	<a href="#">Longitudinal Effects of Multiple Pollutants on Child Growth, Blood Pressure and Cognition</a>	Gold, Diane R. Oken, Emily Schwartz, Joel Gillman, Matthew  - Principal Investigators listed are sub-PIs determined by the center.	<a href="#">2010</a> <a href="#">2011</a> <a href="#">2012</a> <a href="#">2013</a> <a href="#">2014</a>	Total Pubs: 31 Journals: 15 -- No Books --	Harvard University	EPA Project Officer(s) for Air Pollution Mixtures: Health Effects across Life Stages	Refer to <a href="#">main center abstract</a> for 2015 funding details.	January 2011 - December 2015
3	<input type="checkbox"/>	R834798C003 <a href="#">Centers</a>  - This is a subproject of the <a href="#">Air Pollution Mixtures: Health Effects across Life Stages</a>	<a href="#">Identifying the Cognitive and Vascular Effects of Air Pollution Sources and Mixtures in the Framingham Offspring and Third Generation Cohorts</a>	Mittleman, Murray Schwartz, Joel Gold, Diane R.  - Principal Investigators listed are sub-PIs determined by the center.	<a href="#">2010</a> <a href="#">2011</a> <a href="#">2012</a> <a href="#">2013</a> <a href="#">2014</a>	Total Pubs: 24 Journals: 16 -- No Books --	Harvard University	EPA Project Officer(s) for Air Pollution Mixtures: Health Effects across Life Stages	Refer to <a href="#">main center abstract</a> for 2015 funding details.	January 2011 - December 2015
4	<input type="checkbox"/>	R834798C002 <a href="#">Centers</a>  - This is a subproject of the <a href="#">Air Pollution Mixtures: Health Effects across Life Stages</a>	<a href="#">Cognitive Decline, Cardiovascular Changes, and Biological Aging in Response to Air Pollution</a>	Schwartz, Joel Mittleman, Murray  - Principal Investigators listed are sub-PIs determined by the center.	<a href="#">2010</a> <a href="#">2011</a> <a href="#">2012</a> <a href="#">2013</a> <a href="#">2014</a>	Total Pubs: 38 Journals: 38 -- No Books --	Harvard University	EPA Project Officer(s) for Air Pollution Mixtures: Health Effects across Life Stages	Refer to <a href="#">main center abstract</a> for 2015 funding details.	January 2011 - December 2015

5	<input type="checkbox"/>	R834798C005 <u>Centers</u>	<u>A National Study to Assess Susceptibility, Vulnerability, and Effect Modification of Air Pollution Health Risks</u> <u>Mixtures: Health Effects across Life Stages</u>	Dominici, Francesca Bell, Michelle L. Schwartz, Joel Zanobetti, Antonella	<u>2010</u> <u>2011</u> <u>2012</u> <u>2013</u>	Total Pubs: 15 Journals: 14 -- No Books --	<b>Harvard University</b> , Yale School of Forestry & Environmental Studies	EPA Project Officer(s) for Air Pollution Mixtures: Health Effects across Life Stages	Refer to <u>main center abstract</u> for 2015 funding details.	January 2011 - December 2015
		- This is a subproject of the <u>Air Pollution</u>								
				- Principal Investigators listed are sub-PIs determined by the center.				Grant Number R834798:		
								Ilacqua, Vito		
6	<input type="checkbox"/>	R834798 <u>Centers</u>	<u>Air Pollution Mixtures: Health Effects Across Life Stages</u>	Koutrakis, Petros Godleski, John J. Bell, Michelle L. Diaz, Edgar Dominici, Francesca Gillman, Matthew Gold, Diane R. Lawrence, Joy Mittleman, Murray Oken, Emily Schwartz, Joel Wolfson, Michael Zanobetti, Antonella	<u>2010</u> <u>2011</u> <u>2012</u> <u>2013</u> <u>2014</u>	Total Pubs: 151 Journals: 123 -- No Books --	<b>Harvard University</b> , Harvard School of Public Health, Yale University	Ilacqua, Vito	\$7,997,561	January 2011 - December 2015
		- Main center abstract - <u>Air Pollution Mixtures: Health Effects across Life Stages</u>								
				- Principal Investigators listed are sub-PIs determined by the center.						
7	<input type="checkbox"/>	R832752 <u>Grant</u>	<u>Heat-related Hospital Admissions Among the Elderly: Community, Socio-economic and Medical Determinants of Vulnerability and Economic Impacts</u>	O'Neill, Marie Brown, Daniel Diez Roux, Ana V. Levy, Helen Schrage, Daniel Schwartz, Joel Williams, Roger Zanobetti, Antonella Wyman, Michelle Stults, Melissa	<u>2006</u> <u>2007</u> <u>2008</u> <u>2009</u> <u>Final</u>	Total Pubs: 22 Journals: 5 -- No Books --	<b>University of Michigan</b> , <b>University of Michigan - Ann Arbor</b> , Harvard University, ICLEI Local Governments for Sustainability/Cities for Climate Protection Campaign, Department of Earth and Planetary Sciences	Bloomer, Bryan	\$576,091	January 2006 - December 2009 (Extended to December 2010)
8	<input type="checkbox"/>	R832416C001 <u>Centers</u>	<u>Cardiovascular Responses in the Normative Aging Study: Exploring the Pathways of Particle Toxicity</u>	Schwartz, Joel Suh, Helen H. Vokonas, Pantel Sparrow, David	<u>2006</u> <u>2007</u> <u>2008</u> <u>2009</u>	Total Pubs: 68 Journals: 67 -- No Books --	<b>Harvard University</b> , <b>Harvard School of Public Health</b> , Boston University	EPA Project Officer(s) for Harvard Particle Center	Refer to <u>main center abstract</u> for 2010 funding details.	October 2005 - September 2010 (Extended to September 2011)
		- This is a subproject of the <u>Harvard Particle Center</u>						Grant Number R832416:		
				- Principal Investigators listed are sub-PIs determined by the center.	<u>2010</u> <u>Final</u>			Peffer, Mel		
9	<input type="checkbox"/>	R832416 <u>Centers</u>	<u>Harvard Particle Center</u>	Koutrakis, Petros Brook, Jeffrey R. Brook, Robert D. Coull, Brent Demokritou, Philip Dockery, Douglas W. Godleski, John J. Gold, Diane R. Gonzalez-Flecha, Beatriz Schwartz, Joel Silverman, Frances Speizer, Frank E. Stone, Peter Suh, Helen H.	<u>2006</u> <u>2007</u> <u>2008</u> <u>2009</u> <u>2010</u> <u>Final</u>	Total Pubs: 128 Journals: 123 -- No Books --	<b>Harvard University</b> , Boston University, Brigham and Women's Hospital, University of Michigan, University of Toronto	Peffer, Mel	\$3,215,324	October 2005 - September 2010 (Extended to September 2011)

Vokonas, Pantel  
Sparrow, David  
Demokrito, Phil

- Principal Investigators listed are  
sub-PIs determined by the center.

10	<input type="checkbox"/>	R831725 <u>Centers</u>	<u>Metal Mixtures and Children's Health</u>	Hu, Howard Brain, Joseph D. Backus, Ann Hatley, Earl Jim, Rebecca Schwartz, Joel Shine, James P. Spengler, John D.	<u>2004</u> <u>2005</u> <u>2007</u> <u>2009</u>	Total Pubs: 31 Journals: 24 Books: 1	<b>Harvard School of Public Health</b>	Callan, Richard	\$7,894,185	June 2004	- May 2009 (Extended to May 2011)
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- Main center abstract -  
Harvard Center for  
Children's Environmental  
Health and Disease  
Prevention Research

- Principal Investigators listed are  
sub-PIs determined by the center.

11	<input type="checkbox"/>	R830838 <u>Grant</u>	<u>Cardiovascular Responses to Particulate Exposure</u>	Christiani, David Coull, Brent Herrick, Robert Levy, Jonathan Magari, Shannon Schwartz, Joel Sioutas, Constantinos Eisen, Ellen	<u>2003</u> <u>2005</u> <u>2006</u> <u>2007</u>	Total Pubs: 2 -- No Journals -- -- No Books --	<b>Harvard School of Public Health, University of Southern California</b>	Glenn, Barbara	\$1,017,689	May 2003	- May 2006 (Extended to May 2009)
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12	<input type="checkbox"/>	R830545 <u>Grant</u>	<u>Chronic Exposure to Particulate Matter and Cardiopulmonary Disease</u>	Laden, Francine Camargo, Carlos Schwartz, Joel Speizer, Frank E. Suh, Helen H. Neas, Lucas M. Puetz, Robin C. Yanosky, Jeff D.	<u>2003</u> <u>2004</u> <u>2005</u> <u>2006</u> <u>Final</u>	Total Pubs: 8 Journals: 4 -- No Books --	<b>Brigham and Women's Hospital, Inc., Brigham and Women's Hospital, U. S. Environmental Protection Agency</b>	Glenn, Barbara	\$933,602	January 2003 - January 2006 (Extended to January 2008)
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13	<input type="checkbox"/>	R827353C005 <u>Centers</u>	<u>Assessing Life-Shortening Associated with Exposure to Particulate Matter</u>	Schwartz, Joel Bateson, Thomas F Coull, Brent O'Neill, M. Zanobetti, Antonella	<u>1999</u> <u>2000</u> <u>2001</u> <u>2002</u> <u>2003</u> <u>Final</u>	Total Pubs: 22 Journals: 22 -- No Books --	<b>Harvard University, Harvard School of Public Health</b>	EPA Project Officer(s) for Harvard Particle Center Grant Number R827353: Stacey Katz/Gail Robarge,	Refer to <u>main</u> <u>center</u> <u>abstract</u> for funding details.	June 1999 - May 2005 (Extended to May 2006)
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- This is a subproject of the Harvard Particle Center

- Principal Investigators listed are  
sub-PIs determined by the center.

14	<input type="checkbox"/>	R827353C004 <u>Centers</u>	<u>Examining Conditions That Predispose Towards Acute Adverse Effects of Particulate Exposures</u>	Schwartz, Joel O'Neill, M. Wellenius, Gregory Zanobetti, Antonella	<u>1999</u> <u>2000</u> <u>2001</u> <u>2002</u> <u>2003</u> <u>2004</u> <u>Final</u>	Total Pubs: 34 Journals: 33 -- No Books --	<b>Harvard University, Harvard School of Public Health</b>	EPA Project Officer(s) for Harvard Particle Center Grant Number R827353: Stacey Katz/Gail Robarge,	Refer to <u>main</u> <u>center</u> <u>abstract</u> for funding details.	June 1999 - May 2005 (Extended to May 2006)
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- This is a subproject of the Harvard Particle Center

- Principal Investigators listed are  
sub-PIs determined by the center.

15	<input type="checkbox"/>	R827353C003 <u>Centers</u>	<u>St. Louis Bus, Steubenville and Atlanta Studies</u>	Gold, Diane R. Stone, Peter Koutrakis, Petros Suh, Helen H.	<u>1999</u> <u>2000</u> <u>2001</u>	Total Pubs: 8 Journals: 8 -- No Books --	<b>Harvard University, Harvard School of Public Health</b>	EPA Project Officer(s) for EPA Harvard Center for Ambient	Refer to <u>main</u> <u>center</u> <u>abstract</u> for funding details.	June 1999 - May 2005 (Extended to May 2006)
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- This is a subproject of

the EPA Harvard Center  
for Ambient Particle  
Health Effects

Adamkiewicz, Gary [2002](#)  
Coull, Brent [2003](#)  
Dockery, Douglas W.  
Dubowsky, S. [2004](#)  
Luttmann-Gibson, Heike  
Sarnat, Jeremy [Final](#)  
Schwartz, Joel  
Wheeler, A.  
Zanobetti, Antonella

Particle Health funding to May  
Effects details. 2006)  
  
Grant Number  
R827353:  
  
Stacey Katz/Gail  
Robarge,

- Principal Investigators listed are  
sub-PIs determined by the center.

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R827353C002 Quantifying Exposure Error and  
Centers its Effect on Epidemiological  
Studies  
- This is a subproject of  
the EPA Harvard Center  
for Ambient Particle  
Health Effects

Suh, Helen H. [1999](#)  
Sarnat, Jeremy [2000](#)  
Schwartz, Joel [2001](#)  
Zanobetti, Antonella [2002](#)  
  
- Principal Investigators listed are [2003](#)  
sub-PIs determined by the center. [Final](#)

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**Harvard University**

EPA Project Refer to June 1999  
Officer(s) for [main](#) -  
EPA Harvard [center](#) May 2005  
Center for Ambient [abstract](#) for(Extended  
Particle Health funding to May  
Effects details. 2006)

Grant Number  
R827353:  
  
Stacey Katz/Gail  
Robarge,

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R827353 Ambient Particle Health Effects:  
Centers Exposure, Susceptibility, and  
Mechanisms  
- Main center abstract -  
EPA Harvard Center for  
Ambient Particle Health  
Effects

Koutrakis, Petros [Final](#)  
Brain, Joseph D.  
Burge, Harriet A.  
Butler, James P.  
Catalano, Paul  
Christiani, David  
Dockery, Douglas W.  
Evans, John S.  
Godleski, John J.  
Gold, Diane R.  
Graham, John  
Hammitt, James K.  
Kelsey, Karl  
Kobzik, Lester  
Schwartz, Joel  
Speizer, Frank E.  
Spengler, John D.  
Stone, Peter  
Suh, Helen H.  
Verrier, Richard  
Ware, James  
Adamkiewicz, Gary  
Bateson, Thomas F  
Brown, Kathleen Ward  
Coull, Brent  
Demokritou, Philip  
Dubowsky, S.  
Fox, L.  
Gonzalez-Flecha, Beatriz  
Laden, Francine  
Lawrence, Joy  
Levy, Jonathan  
Luttmann-Gibson, Heike  
Mark, Teresa  
O'Neill, M.  
Park, S.  
Ruiz, Pablo

Total Pubs: [156](#)  
Journals: [154](#)  
-- No Books --

**Harvard University**

Stacey Katz/Gail \$7,747,040 June 1999  
Robarge, -  
May 2005  
(Extended  
to May  
2006)

Sarnat, Jeremy  
Smythe, Alice  
Stevens, G.  
Tsuda, Akira  
Vallarino, Jose  
Wellenius, Gregory  
Wheeler, A.  
Wilson, A.  
Wolfson, Jack M.  
Zanobetti, Antonella

- Principal Investigators listed are  
sub-PIs determined by the center.

18	<input type="checkbox"/>	R827353C006 <u>Centers</u>	<u>Investigating Chronic Effects of Exposure to Particulate Matter</u>	Dockery, Douglas W. Laden, Francine Schwartz, Joel	<u>2000</u> <u>2001</u> <u>2002</u> <u>2003</u> <u>2004</u> <u>Final</u>	Total Pubs: <u>4</u> Journals: <u>4</u> -- No Books --	<b>Harvard University, Harvard School of Public Health</b>	EPA Project Officer(s) for EPA Harvard Center for Ambient Particle Health Effects	Refer to <u>main</u> <u>center</u> <u>abstract</u> for(Extended funding details.	June 1999 - May 2005 to May 2006)
		- This is a subproject of the EPA Harvard Center for Ambient Particle Health Effects		- Principal Investigators listed are sub-PIs determined by the center.				Grant Number R827353:	Stacey Katz/Gail Robarge,	
19	<input type="checkbox"/>	R827353C017 <u>Centers</u>	<u>Technology Development and Transfer Core</u>	Coull, Brent Demokritou, Philip Koutrakis, Petros Lawrence, Joy Schwartz, Joel Wolfson, Mike	<u>Final</u>	Total Pubs: <u>20</u> Journals: <u>20</u> -- No Books --	<b>Harvard University</b>	EPA Project Officer(s) for EPA Harvard Center for Ambient Particle Health Effects	Refer to <u>main</u> <u>center</u> <u>abstract</u> for(Extended funding details.	June 1999 - May 2005 to May 2006)
		- This is a subproject of the EPA Harvard Center for Ambient Particle Health Effects		- Principal Investigators listed are sub-PIs determined by the center.				Grant Number R827353:	Stacey Katz/Gail Robarge,	
20	<input type="checkbox"/>	R826780 <u>Grant</u>	<u>Cardiovascular Vulnerability to Particulate Pollution</u>	Gold, Diane R. Litonjua, Augusto Schwartz, Joel Stone, Peter Verrier, Richard	<u>1999</u> <u>2000</u> <u>Final</u>	Total Pubs: <u>14</u> Journals: <u>9</u> -- No Books --	<b>Harvard University, Brigham and Women's Hospital, Inc., Beth Israel Deaconess Medical Center</b>	Katz, Stacey Robarge, Gail	\$648,227	October 1998 - September 2001
21	<input type="checkbox"/>	R826245 <u>Grant</u>	<u>The Relative Associations of Transition Metals and Sources of Fine Particulate Matter to Increased Daily Mortality</u>	Schwartz, Joel	<u>Final</u>	Total Pubs: <u>6</u> Journals: <u>1</u> -- No Books --	<b>Harvard University</b>	Katz, Stacey Robarge, Gail	\$211,733	January 1998 - January 2000
22	<input type="checkbox"/>	R825265 <u>Grant</u>	<u>Ultrafine Particles in Urban and Respiratory Health Among Children with Respiratory Symptoms</u>	Schwartz, Joel	<u>Final</u>	Total Pubs: <u>5</u> Journals: <u>5</u> -- No Books --	<b>Harvard University</b>	Katz, Stacey Robarge, Gail	\$196,185	December 1996 - December 1999
23	<input type="checkbox"/>	R824797 <u>Grant</u>	<u>Bioaerosols, Health, and Productivity in a Large Office Building</u>	Burge, Harriet A. Milton, D. Schwartz, Joel	<u>Final</u>	Total Pubs: <u>4</u> Journals: <u>4</u> -- No Books --	<b>Harvard School of Public Health</b>	Katz, Stacey	\$439,035	October 1995 - September 1998

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