

**Attachment 4**

**Table Shells for Analysis**

Table 1. Percentage of Investigators receiving each type of asthma-related funding in the past 10 years and throughout career and primary sources of asthma funding for same time periods

Funding Source	Percentage of Investigators receiving asthma-related funding		Percentage of Investigators receiving primary asthma-related funding	
	Career	Last 10 years	Career	Last 10 years
NIEHS				
NHLBI				
NIAID				
NICHD				
Other NIH				
CDC				
AHRQ				
FDA				
EPA				
HUD				
NSF				
Other US government (not listed above)				
Foundations				
Industry				
University discretionary/ start-up funds				
Local, state or regional government				
Other				

Table 2. Percentage of Investigators receiving specific types of NIH-funding for asthma research

Type of Funding	Percentage of Investigators
Research (e.g., R01, R03, R21)	
Program/Center (e.g., M, P and U awards)	
Career Development Individual (e.g., K awards; R23, R29)	
Fellowships (e.g., F awards)	
Institutional Training (e.g., T32)	
Technology Development (e.g., SBIR, STTR; R41-44, N43-44, U43-44)	

Table 3. Percentage of researchers engaged in basic and applied sciences related to asthma by field

Field of Research	Percentage of Investigators
<b>Basic Sciences</b> <a href="#">Biochemistry</a> <a href="#">Biophysics</a> <a href="#">Botany</a> <a href="#">Cellular biology</a> <a href="#">Genetics</a> <a href="#">Ecology</a> Immunology <a href="#">Medicine</a> <a href="#">Microbiology</a> <a href="#">Molecular biology</a> <a href="#">Physiology</a> Environmental Sciences	
<b>Applied Sciences</b> Clinical Research Public Health Research Health Services Research Program or Policy Research Technology Innovation Translational Research Intervention Research	

Table 4. Age distribution of investigators

Age Category	Percentage of Investigators
<30	
30-39	
40-49	
50-59	
60+	

Table 5. Percentage of investigators by degrees awarded

Degree	Percentage of Investigators
AB, BA, BS, BSc	
MA, MS, MHS, MPH, MPA, MED, MSIH	
PhD, Sc.D, DSc	
MD	
Other clinical degree (e.g. DO, DDS, MBBS, RN)	
None	

Table 6. Distribution of year of highest degree

Year	Percentage of Investigators
1976-1980	
1981-1985	
1986-1990	
1991-1995	
1996-2000	
2001-2005	
2006-	

Table 7. Percentage of investigators that have disseminated research by the following mechanisms

Dissemination mechanism	Percentage of investigators
Published in peer-reviewed journals	
Presented at scientific conferences	
Participated in grantee meetings	
Developed and disseminated curricula	
Developed and disseminated interventions	
Developed and disseminated research tools and methods	
Participated in the development of clinical guidelines for the treatment of asthma	
Participated in workshops or trainings disseminating your research	
Provided scientific testimony and briefings to legislators	
Developed and published websites	
Presented research in community forums	
Developed fact sheets and pamphlets	
Provided information for press releases	

Table 8. Nature of investigator personal engagement by type of engagement

Group	Percentage of Investigators					
	Share information	Conduct joint projects or activities	Serve on boards or advisory panels	Provide formal testimony	Serve as employee or consultant	No interaction
Other researchers						
University administration / program directors						
Local, regional or national health officials						
Environmental regulators						
Food and drug regulators						
Legislators and staffers						
Business and industry representatives						
Housing and urban development agencies						
Advocacy groups						
Community groups						

Table 9. Percentage of Investigators who have applied for patents and commercialized innovation

IP Action	Percentage of Investigators
Patent application	
Patent	
<b>Nature of patent</b>	
New drug	
New use of drug	
Medical product or device	
Environmental controls and services	
New process or procedure	
New research method	
New gene	
Commercialization of Patent	
License Patent	
Started spin-off or new company	

Table 10. Percentage of investigators who received patents and received support from federal agencies, by agency

Agency	Percentage of Investigators
NIEHS	
NHLBI	
NIAID	
NICHD	
Other NIH	
CDC	
AHRQ	
FDA	
EPA	
HUD	
NSF	
Other US government (not listed above)	

Table 11. Percentage of investigators who believe research has had or may have future impacts in the next 10 years by impact area

Impact Area	Percentage of Investigators	
	Current Impact	Future Potential Impact
greater understanding of asthma disease mechanisms		
greater understanding of individual, social, and environmental factors associated with asthma		
improved environmental measurement techniques		
increased evidence regarding effective interventions		
improved environmental control techniques		
to changes in curriculum for clinical/public health students		
changes in curriculum for K-12 or families		
changes in business practices regarding <u>indoor</u> air		
changes in business practices regarding <u>outdoor</u> air		
changes in environmental standards or regulations for <u>indoor</u> air		
to changes in environmental standards or regulations for <u>outdoor</u> air		
changes in public health/environmental legislation related to asthma		
changes in clinical guidelines for asthma		
changes in clinical practice relevant to asthma		
changes in public knowledge and practices related to asthma prevention and control		
increased public advocacy for asthma prevention and control		

Table 12. Percentage of investigators who believe research has had impacts by impact area and by NIEHS funding status

Impact Area	Percentage of Investigators		
	No NIEHS funding	NIEHS funding	NIEHS funding primary
greater understanding of asthma disease mechanisms			
greater understanding of individual, social, and environmental factors associated with asthma			
improved environmental measurement techniques			
increased evidence regarding effective interventions			
improved environmental control techniques			
changes in curriculum for clinical/public health students			
changes in curriculum for K-12 or families			
changes in business practices regarding <u>indoor</u> air			
changes in business practices regarding <u>outdoor</u> air			
changes in environmental standards or regulations for <u>indoor</u> air			
changes in environmental standards or regulations for <u>outdoor</u> air			
changes in public health/environmental legislation related to asthma			
changes in clinical guidelines for asthma			
changes in clinical practice relevant to asthma			
changes in public knowledge and practices related to asthma prevention and control			
increased public advocacy for asthma prevention and control			