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	<u>an 2006</u> tegic Plan 2006 > Con Confirm Your Feedba					
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	-Name & Address-					_
	First Name:	Matthew				
	Last Name: Degree:	Belmonte				
	Position Title:	Senior Research Associate	e			
	Department: Institution Name:	Autism Research Centre University of Cambridge				
		: Douglas House, 18b Tru	mpington Road			
	City:	Cambridge				
	State: Zip Code:	FOREIGN UK CB2 2AH				
• Home	E-Mail Address:	belmonte@mit.edu				
1101110	Phone #:	+44.1223.746.057				
	-Affiliation					
	Academic Institution					
	You are :					
	-Questions:					
	A. What are the disease processes and public health concerns that are relevant to environmental sciences?					
	I approach this question from the perspective of autism, a complex developmental disorder whose aetiology involves the interaction of multiple genetic and environmental liabilities. There hasn't been much communication or overlap between autism scientists and those studying the neural developmental effects of toxins, and this cultural barrier needs to be breached.					
				ogical systems work, why some have very different clinical outco		
	Key to understanding complex and subtle environmental effects is to coordinate environmental exposures and genotype (Hornig, Chian, & Lipkin, Molecular Psychiatry 2004).					
	C. What are the major opportunities and challenges in global environmental health?					
	Many different environmental exposures and genetic liabilities may converge on final common pathways in the disruption neural connectivity. The challenge is to aggregate all of the data and to identify the interactions involved. Studies of singl factors are not as productive for understanding complex disorders as are studies that model such interactions.					f
	D. What are the environmental exposures that need further consideration?					
	ethylmercury widely used a	in thiomersal, many incon as flame retardants especial	npletely answered questic lly in products used by c	n mercury released during combu ns remain. In addition, polybron hildren, disrupt thyroid function Pessah, International Meeting fo	minated diethyl ethers, so and may disrupt the	
	E. What are the	critical needs for training t	he next generation of sci	entists in environmental health?		
	The most crucial issue is communication beyond the traditional bounds of environmental health sciences. Scientists need to understand the genetic and other contexts of the problems that they face.					
Contact Us	F. What technol	ogy or infrastructural chan	ges are needed to fundan	nentally advance environmental	health science?	Last Modified: 13 May 2005
	The NIEHS also solicits nominations for individuals to participate in a workshop to discuss the plan in more detail. Whom would you recommend to serve as a planning group member?					
	Would you like a copy of the published plan? yes					
	Please review the information you have entered before clicking the submit button. Clicking the submit button will enter the information provided to the database which then cannot be changed or deleted. If you want to change any information then click the "BACK" button and change the information.					
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