

2012 Portfolio Analysis Projects

Please note that data are not yet final; additional projects may be added.

QUESTION 3: WHAT CAUSED THIS TO HAPPEN AND CAN IT BE PREVENTED?

3.S.A

Coordinate and implement the inclusion of approximately 20,000 subjects for genome-wide association studies, as well as a sample of 1,200 for sequencing studies to examine more than 50 candidate genes by 2011. Studies should investigate factors contributing to phenotypic variation across individuals that share an identified genetic variant and stratify subjects according to behavioral, cognitive, and clinical features. *IACC Recommended Budget: \$43,700,000 over 4 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
Advanced parental age and autism: The role of aneuploidy and uniparental disomy in ASD pathogenesis	Berko, Esther	Albert Einstein College of Medicine of Yeshiva University	\$0.00	Autism Speaks
Genome-wide expression profiling data analysis to study autism genetic models	Luo, Rui	University of California, Los Angeles	\$0.00	Autism Speaks
Rapid phenotyping for rare variant discovery in autism	Nelson, Stanley	University of California, Los Angeles	\$700,956.00	National Institutes of Health
Autism genetics: Homozygosity mapping and functional validation	Walsh, Christopher	Boston Children's Hospital	\$850,815.00	National Institutes of Health
Genomic influences on developmental course and outcome in Infants at risk of ASD: A Baby Siblings Research Consortium (BSRC) Study	Zwaigenbaum, Lonnie	University of Alberta	\$147,661.00	Autism Speaks
Genomic influences on development and outcomes in Infants at risk of ASD	Zwaigenbaum, Lonnie	University of Alberta	\$0.00	Autism Speaks

3.S.B

Within the highest-priority categories of exposures for ASD, identify and standardize at least three measures for identifying markers of environmental exposure in biospecimens by 2011. *IACC Recommended Budget: \$3,500,000 over 3 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
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Environmental exposures measured in deciduous teeth as potential biomarkers for autism risk	Palmer, Raymond	University of Texas Health Science Center at San Antonio	\$100,000.00	Autism Speaks
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3.S.C

Initiate efforts to expand existing large case-control and other studies to enhance capabilities for targeted gene – environment research by 2011. *IACC Recommended Budget: \$27,800,000 over 5 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
Prenatal and neonatal biologic markers for autism (supplement)	Croen, Lisa	Kaiser Foundation Research Institute	\$129,464.00	National Institutes of Health
Prenatal and neonatal biologic markers for autism	Croen, Lisa	Kaiser Foundation Research Institute	\$609,792.00	National Institutes of Health
Autism risk, prenatal environmental exposures, and pathophysiologic markers	Hertz-Picciotto, Irva	University of California, Davis	\$1,815,424.00	National Institutes of Health
The CHARGE Study: Childhood Autism Risks from Genetics and the Environment	Hertz-Picciotto, Irva	University of California, Davis	\$188,012.00	National Institutes of Health
Genetics and gene-environment interactions in a Korean epidemiological sample of autism	Kim, Young Shin	Yale University	\$0.00	Simons Foundation
EPA/NIEHS Center for Children's Environmental Health (CCEH) at UC Davis	Pessah, Isaac	University of California, Davis	\$0.00	Environmental Protection Agency
Center for Genomic and Phenomic Studies in Autism	Sebat, Jonathan	University of California, San Diego	\$757,596.00	National Institutes of Health
Project 1: Effect of multi-level environmental exposure on birth outcomes	Tager, Ira	University of California, Berkeley	\$23,798.00	National Institutes of Health

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Perinatal exposure to airborne pollutants and associations with autism phenotype	Volk, Heather	University of Southern California	\$102,717.00	Autism Speaks
<u>3.S.E</u>				
Support at least two studies to determine if there are subpopulations that are more susceptible to environmental exposures (e.g., immune challenges related to infections, vaccinations, or underlying autoimmune problems) by 2012. <i>IACC Recommended Budget: \$8,000,000 over 2 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
Prevalence and patterns of medical co-morbidity and healthcare use before ASD diagnoses in children	Croen, Lisa	Kaiser Foundation Research Institute	\$149,999	Autism Speaks
Autism spectrum disorder and autoimmune disease of mothers	Diamond, Betty	The Feinstein Institute for Medical Research	\$137,219.00	Simons Foundation
Research project about a potential infectious origin of autism	Montagnier, Luc	Institut de Recherche Luc Montagnier	\$0.00	Autism Research Institute
Vulnerability phenotypes and susceptibility to environmental toxicants: From organism to mechanism	Noble, Mark	University of Rochester	\$0.00	Autism Speaks
Evaluation of the immune and physiologic response in children with autism following immune challenge	Van de Water, Judy	University of California, Davis	\$0.00	Autism Speaks
<u>3.S.F</u>				
Initiate studies on at least 10 environmental factors identified in the recommendations from the 2007 IOM report "Autism and the Environment: Challenges and Opportunities for Research" as potential causes of ASD by 2012. <i>Estimated cost \$56,000,000 over 2 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
UC Davis Center for Children's Environmental Health (CCEH) Bridge	Pessah, Isaac	University of California, Davis	\$75,000.00	Autism Speaks

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3.S.H

Support at least three studies of special populations or use existing databases to inform our understanding of environmental risk factors for ASD in pregnancy and the early postnatal period by 2012. Such studies could include:

- Comparisons of populations differing in geography, gender, ethnic background, exposure history (e.g., prematurity, maternal infection, nutritional deficiencies, toxins), and migration patterns; and
- Comparisons of phenotype (e.g., cytokine profiles), in children with and without a history of autistic regression, adverse events following immunization (such as fever and seizures), and mitochondrial impairment. These studies may also include comparisons of phenotype between children with regressive ASD and their siblings.
- Emphasis on environmental factors that influence prenatal and early postnatal development is particularly of high priority. Epidemiological studies should pay special attention to include racially and ethnically diverse populations.

IACC Recommended Budget: \$12,000,000 over 5 years.

Project Title	Principal Investigator	Institution	Funding	Funder
Multi-registry analyses for iCARE - Data Management Core	Bresnahan, Michaeline	Columbia University	\$16,907.00	Autism Speaks
Very early behavioral indicators of ASD risk among NICU infants: A prospective study	Gardner, Judith	Institute for Basic Research in Developmental Disabilities	\$149,986.00	Autism Speaks
Multi-registry analyses for iCARE - Israel	Gross, Raz	The Gertner Institute of Epidemiology and Health Policy Research	\$8,980.00	Autism Speaks
Multi-registry analyses for iCARE-Sweden	Hultman, Christina	Karolinska Institutet	\$11,462.00	Autism Speaks
Neonatal biomarkers in extremely preterm babies predict childhood brain disorders	Kuban, Karl	Boston Medical Center	\$3,478,718.00	National Institutes of Health
Early life environmental exposures and autism in an existing Swedish birth cohort	Lee, Brian	Drexel University	\$149,995.00	Autism Speaks
Multi-registry analyses for iCARE-West Australia	Leonard, Helen	The University of Western Australia	\$69,485.00	Autism Speaks

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Risk factors, comorbid conditions, and epidemiology of autism in children	Nylund, Cade	Henry M. Jackson Foundation	\$0.00	Department of Defense
Multi-registry analyses for iCARE - Denmark	Parner, Eric	Aarhus University	\$4,478.00	Autism Speaks
Maternal cholesterol and autism	Roulette, Jean Baptiste	Oregon Health & Science University	\$0.00	Health Resources and Services Administration
Multi-registry analyses for iCARE - Finland	Sourander, Andre	Turku University	\$6,980.00	Autism Speaks
Multi-registry analyses for iCARE - Norway	Stoltenberg, Camilla	Norwegian Institute of Public Health	\$11,462.00	Autism Speaks
Gestational exposure questionnaire validation and feasibility study	Walker, Cheryl	University of California, Davis	\$187,864	Autism Speaks
<u>3.S.I</u>				
Support at least two studies that examine potential differences in the microbiome of individuals with ASD versus comparison groups by 2012. <i>IACC Recommended Budget: \$1,000,000 over 2 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
Modeling gut microbial ecology and metabolism in autism using an innovative ex vivo approach	Allen-Vercoe, Emma	University of Guelph	\$122,626.00	Department of Defense - Autism Research Program
Defining the underlying biology of gastrointestinal dysfunction in autism	Ashwood, Paul	University of California, Davis	\$0.00	Autism Speaks

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Regressive autism as an infectious disease: Role of the home as an environmental factor	Finegold, Sydney	VA Medical Center, Los Angeles	\$25,064.00	Autism Research Institute
Analysis of the small intestinal microbiome of children with autism	Kushak, Rafail	Massachusetts General Hospital	\$0.00	Department of Defense
Autism, GI symptoms and the enteric microbiota	Li, Ellen	The Research Foundation of the State University of New York at Stony Brook	\$87,642.00	Simons Foundation
Elevated urinary P-cresol in small autistic children: Origin and consequences	Persico, Antonio	Universita Campus Bio-Medico di Roma	\$20,000.00	Autism Research Institute
<u>3.S.J</u>				
Support at least three studies that focus on the role of epigenetics in the etiology of ASD, including studies that include assays to measure DNA methylations and histone modifications and those exploring how exposures may act on maternal or paternal genomes via epigenetic mechanisms to alter gene expression, by 2012. <i>IACC Recommended Budget: \$20,000,000 over 5 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
Human neurobehavioral phenotypes associates with the extended PWS/AS domain	Beaudet, Arthur	Baylor College of Medicine	\$618,967.00	National Institutes of Health
In vivo function of neuronal activity-induced MeCP2 phosphorylation	Chang, Qiang	University of Wisconsin - Madison	\$292,721.00	National Institutes of Health
Genome-wide analyses of DNA methylation in autism	Chess, Andrew	Massachusetts General Hospital	\$60,000.00	Simons Foundation
Cell specific genomic imprinting during cortical development and in mouse models	Dulac, Catherine	Harvard University	\$328,975.00	National Institutes of Health
Genome-wide examination of DNA methylation in autism	Fallin, Dani	Johns Hopkins University	\$149,999.00	Autism Speaks

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Environment, the perinatal epigenome, and risk for autism and related disorders	Fallin, Margaret	Johns Hopkins University	\$1,976,271.00	National Institutes of Health
Discordant monozygotic twins as a model for genetic-environmental interaction in autism	Feinberg, Andrew	Johns Hopkins University	\$0.00	Department of Defense
Epigenetic and transcriptional dysregulation in autism spectrum disorder	Geschwind, Daniel	University of California, Los Angeles	\$629,805.00	National Institutes of Health
Identification of aberrantly methylated genes in autism: The role of advanced paternal age	Gingrich, Jay	Research Foundation for Mental Hygiene, Inc.	\$0.00	Simons Foundation
5-hydroxymethylcytosine-mediated epigenetic regulation in autism	Jin, Peng	Emory University	\$100,000	Simons Foundation
Discordant monozygotic twins as a model for genetic-environmental interaction in autism	Kaufmann, Walter	Kennedy Krieger Institute	\$0.00	Department of Defense
Mechanisms of valproic acid-induced neurodevelopmental and behavioral defects	Krueger, Bruce	University of Maryland, Baltimore	\$318,513.00	National Institutes of Health
Molecular analysis of bipolar and schizophrenia candidate genes	Lachman, Herbert	Albert Einstein College of Medicine of Yeshiva University	\$415,000.00	National Institutes of Health
Methylomic and genomic impacts of organic pollutants in Dup15q syndrome	LaSalle, Janine	University of California, Davis	\$346,406.00	National Institutes of Health
5-Hydroxymethylcytosine-mediated epigenetic regulation in autism spectrum disorders	Li, Xuekun	Emory University	\$60,000.00	Autism Speaks
Paternal age and epigenetic mechanisms in psychiatric disease	Milekic, Maria H.	Research Foundation for Mental Hygiene, Inc/NYSPI	\$45,000.00	Brain & Behavior Research Foundation

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Locus-specific imprinting on the mammalian X chromosome	O'Neill, Michael	University of Connecticut	\$327,994.00	National Institutes of Health
Identical twins discordant for autism: Epigenetic (DNA methylation) biomarkers of non-shared environmental influences	Plomin, Robert	King's College London	\$0.00	Autism Speaks
Regulation of gene expression in ASD through a novel polycomb complex	Reinberg, Danny	New York University School of Medicine	\$100,855.00	Simons Foundation
Exploring interactions between folate and environmental risk factors for autism	Schmidt, Rebecca	University of California, Davis	\$208,782.00	National Institutes of Health
The mechanism of mutations in heterochromatin related genes in ASD	Shifman, Sagiv	Hebrew University of Jerusalem	\$61,625.00	Simons Foundation
Epigenetic DNA modifications in autistic spectrum disorders	Song, Hongjun	Johns Hopkins University School of Medicine	\$81,811.00	Simons Foundation
<u>3.S.K</u>				
Support two studies and a workshop that facilitate the development of vertebrate and invertebrate model systems for the exploration of environmental risks and their interaction with gender and genetic susceptibilities for ASD by 2012. <i>IACC Recommended Budget: \$1,535,000 over 3 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
Analysis of developmental interactions between reelin haploinsufficiency, male sex, and mercury exposure	Keller, Flavio	Universita Campus Bio-Medico di Roma	\$0.00	Autism Speaks
Genetic and environmental interactions leading to autism-like symptoms	Pfaff, Donald	The Rockefeller University	\$60,000	Simons Foundation
The role of serotonin in social bonding in animal models	Simon, Rebecca	University of California, Davis	\$30,000	Autism Science Foundation

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3.L.A

Conduct a multi-site study of the subsequent pregnancies of 1,000 women with a child with ASD to assess the impact of environmental factors in a period most relevant to the progression of ASD by 2014. *IACC Recommended Budget: \$11,100,000 over 5 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
ACE Network: Early Autism Risk Longitudinal Investigation (EARLI) network	Newschaffer, Craig	Drexel University	\$2,835,202.00	National Institutes of Health
Evaluating epidemiological and biostatistical challenges in the EARLI investigation	Heavner, Karyn	Drexel University	\$40,000	Autism Science Foundation

3.L.B

Identify genetic risk factors in at least 50% of people with ASD by 2014. *IACC Recommended Budget: \$33,900,000 over 6 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
Integrative genetic analysis of autistic brains	Arking, Dan	Johns Hopkins University School of Medicine	\$200,000.00	Simons Foundation
Genetic epidemiology of complex traits	Bailey-Wilson, Joan	National Institutes of Health	\$559,192.00	National Institutes of Health
A genome-wide search for autism genes in the SSC Baylor	Beaudet, Arthur	Baylor College of Medicine	\$20,344.00	Simons Foundation
Simons Simplex Collection Site	Bernier, Raphael	University of Washington	\$75,000.00	Simons Foundation
Simons Simplex Collection support grant	Bernier, Raphael	University of Washington	\$29,752.00	Simons Foundation
Genomic profiling of autism families using whole-genome sequencing	Bourgeron, Thomas	Institut Pasteur	\$129,600.00	Simons Foundation
Next generation gene discovery in familial autism	Brkanac, Zoran	University of Washington	\$688,392.00	National Institutes of Health

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Simons Simplex Collection Site	Cook, Edwin	University of Illinois at Chicago	\$0.00	Simons Foundation
A genome-wide search for autism genes in the SSC UIC	Cook, Edwin	University of Illinois at Chicago	\$48,419.00	Simons Foundation
Simons Simplex Collection support grant	Cook, Edwin	University of Illinois at Chicago	\$30,000	Simons Foundation
1/3-Sequencing autism spectrum disorder extended pedigrees	Coon, Hilary	University of Utah	\$299,000	National Institutes of Health
Autism Genome Project (AGP) Core Consortium	Devlin, Bernie	University of Pittsburgh	\$0.00	Autism Speaks
A genome-wide search for autism genes in the SSC Pittsburgh	Devlin, Bernie	University of Pittsburgh	\$50,000.00	Simons Foundation
Genomic hotspots of autism	Eichler, Evan	University of Washington	\$261,033.00	Simons Foundation
Whole exome sequencing of Simons Simplex Collection quads	Eichler, Evan	University of Washington	\$1,835,440.00	Simons Foundation
Simons Simplex Collection Site	Fombonne, Eric	The Research Institute of the McGill University Health Centre	\$44,598.00	Simons Foundation
ACE Network: A comprehensive approach to identification of autism susceptibility genes (supplement)	Geschwind, Daniel	University of California, Los Angeles	\$442,627.00	National Institutes of Health
ACE Network: A comprehensive approach to identification of autism susceptibility genes	Geschwind, Daniel	University of California, Los Angeles	\$2,631,440.00	National Institutes of Health

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Simons Simplex Collection Site	Geschwind, Daniel	University of California, Los Angeles	\$0.00	Simons Foundation
A genome-wide search for autism genes in the SSC UCLA	Geschwind, Daniel	University of California, Los Angeles	\$100,000.00	Simons Foundation
Simons Simplex Collection support grant	Geschwind, Daniel	University of California, Los Angeles	\$50,000.00	Simons Foundation
Whole-exome sequencing to identify causative genes for autism	Gleeson, Joseph	University of California, San Diego	\$350,000.00	Simons Foundation
Novel statistical methods for DNA sequencing data, and applications to autism	Ionita, Iuliana	Columbia University	\$339,743	National Institutes of Health
Simons Simplex Collection Site	Kochel, Robin	Baylor College of Medicine	\$0.00	Simons Foundation
Simons Simplex Collection Support Grant	Kochel, Robin	Baylor College of Medicine	\$30,000.00	National Institutes of Health
RNA expression patterns in autism	Kunkel, Louis	Children's Hospital Boston	\$710,306.00	National Institutes of Health
Simons Simplex Collection Site	Lese Martin, Christa	Emory University	\$0.00	Simons Foundation
A genome-wide search for autism genes in the SSC Emory	Lese Martin, Christa	Emory University	\$72,524.00	Simons Foundation
Simons Simplex Collection Support Grant	Lese Martin, Christa	Emory University	\$30,682.00	Simons Foundation
Simons Simplex Collection Site	Lord, Catherine	University of Michigan	\$123,678.00	Simons Foundation
Simons Foundation Simplex Project Collection Site	Lord, Catherine	Weill Cornell Medical College	\$0.00	Simons Foundation

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Simons Foundation Simplex Project Collection Site Support Grant	Lord, Catherine	Weill Cornell Medical College	\$34,200.00	Simons Foundation
Simons Simplex Collection Site	Miles, Judith	University of Missouri	\$0.00	Simons Foundation
Simons Simplex Collection Site Support Grant	Miles, Judith	University of Missouri	\$30,000.00	Simons Foundation
Linking autism and congenital cerebellar malformations	Millen, Kathleen	University of Chicago	\$0.00	Autism Speaks
A genome-wide search for autism genes in the SSC Brown	Morrow, Eric	Brown University	\$50,000.00	Simons Foundation
Illumina, Inc.	No PI listed	Illumina, Inc.	\$717,514.00	Simons Foundation
The frequency of polymorphisms in maternal- and paternal-effect genes in autism spectrum	Notterman, Daniel	The Pennsylvania State University	\$152,545.00	Simons Foundation
Simons Simplex Collection Site	Pelphrey, Kevin	Yale University	\$96,641	Simons Foundation
Simons Simplex Collection Site Support Grant	Pelphrey, Kevin	Yale University	\$30,000.00	Simons Foundation
Simons Simplex Collection Site	Peterson, Bradley	Columbia University	\$0.00	Simons Foundation
Simons Simplex Collection Site Support Grant	Peterson, Bradley	Columbia University	\$1,430.00	Simons Foundation
Hypocholesterolemic autism spectrum disorder	Porter, Forbes	National Institutes of Health	\$84,549.00	National Institutes of Health
3/3-Sequencing autism spectrum disorder extended pedigrees	Schellenberg, Gerard	University of Pennsylvania	\$160,000	National Institutes of Health

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Examining the Y-chromosome in autism spectrum disorder	Scherer, Stephen	The Hospital for Sick Children	\$175,000.00	Autism Speaks
Autism Genome Project (AGP): Genome sequencing and analysis supplement	Scherer, Stephen	The Hospital for Sick Children	\$50,000.00	Autism Speaks
Investigation of DUF1220 domains in human brain function and disease	Sikela, James	University of Colorado Denver	\$376,668.00	National Institutes of Health
Autism Genome Project (AGP)	Staff Member	Autism Speaks (AS)	\$10,000.00	Autism Speaks
ACE Center: Rare variant genetics, contactin-related proteins and autism	State, Matthew	Yale University	\$324,189.00	National Institutes of Health
A genome-wide search for autism genes in the Simons Simplex Collection	State, Matthew	Yale University	\$415,782.00	Simons Foundation
Whole Exome Sequencing of Simons Simplex Trios	State, Matthew	Yale University	\$114,106.00	Simons Foundation
Whole Exome Sequencing of Simons Simplex Quads	State, Matthew	Yale University	\$2,110,073.00	Simons Foundation
Simons Simplex Collection Site	Sutcliffe, James	Vanderbilt University	\$0.00	Simons Foundation
A genome-wide search for autism genes in the SSC Vanderbilt	Sutcliffe, James	Vanderbilt University Medical Center	\$300,000.00	Simons Foundation
Simons Simplex Collection Support Grant	Sutcliffe, James	Vanderbilt University	\$30,000.00	Simons Foundation
Rapid characterization of balanced genomic rearrangements contributing to autism	Talkowski, Michael	Massachusetts General Hospital	\$53,942.00	National Institutes of Health
Complex genetic architecture of chromosomal aberrations in autism	Talkowski, Michael	Massachusetts General Hospital	\$92,917.00	National Institutes of Health

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Cryptic chromosomal aberrations contributing to autism	Talkowski, Michael	Massachusetts General Hospital	\$70,524.00	Simons Foundation
Sequence-based discovery of genes with pleiotropic effects across diagnostic boundaries and throughout the lifespan	Talkowski, Michael	Massachusetts General Hospital and Harvard University	\$0.00	Brain & Behavior Research Foundation
Autism Genome Project (AGP) Core Consortium	Vieland, Veronica	Nationwide Children's Hospital	\$0.00	Autism Speaks
Mitochondria and the etiology of autism	Wallace, Douglas	Children's Hospital of Philadelphia	\$437,500.00	Simons Foundation
Simons Simplex Collection Site	Walsh, Christopher	Children's Hospital Boston	\$51,656.00	Simons Foundation
Simons Simplex Collection Support Grant	Walsh, Christopher	Children's Hospital Boston	\$30,000.00	Simons Foundation
Finding recessive genes for autism spectrum disorders	Walsh, Christopher	Children's Hospital Boston	\$349,999.00	Simons Foundation
A genome-wide search for autism genes in the SSC CHB	Walsh, Christopher	Children's Hospital Boston	\$50,000.00	Simons Foundation
Dissecting expression regulation of an autism GWAS hit	Weiss, Lauren A.	University of California, San Francisco	\$30,000.00	Brain & Behavior Research Foundation
Genetic basis of autism	Wigler, Michael	Cold Spring Harbor Laboratory	\$0.00	Simons Foundation
Understanding the Genetic basis of autism	Wigler, Michael	Cold Spring Harbor Laboratory	\$6,557,422.00	Simons Foundation
2/3-Sequencing autism spectrum disorder extended pedigrees	Wijisman, Ellen	University of Washington	\$231,688.00	National Institutes of Health

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Population genetics to improve homozygosity mapping and mapping in admixed groups	Williams, Amy	Harvard Medical School	\$52,190.00	National Institutes of Health
Autism Genome Project Consortium data reanalysis using computational biostatistics	Wittkowski, Knut	The Rockefeller University	\$60,000.00	Simons Foundation
Identifying genetic variants on the Y chromosome of males with autism	Yuen, Ryan	The Hospital for Sick Children	\$50,555.00	Autism Speaks
Genomic influences on development and outcomes in infants at risk for autism	Zwaigenbaum, Lonnie	University of Alberta	\$498,341.00	Simons Foundation

3.L.C

Determine the effect of at least five environmental factors on the risk for subtypes of ASD in the pre- and early postnatal period of development by 2015. *IACC Recommended Budget: \$25,100,000 over 7 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II	Ascherio, Alberto	Harvard University	\$0.00	Department of Defense
Assisted reproductive technologies and increased autism risk	Bearman, Peter	Columbia University	\$200,000.00	National Institutes of Health
Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II	Santangelo, Susan	Massachusetts General Hospital	\$0.00	Department of Defense
Prenatal antidepressants and autism spectrum disorder	Vorhees, Charles	Cincinnati Children's Hospital Medical Center	\$153,000.00	Department of Defense - Autism Research Program
Maternal risk factors for autism spectrum disorders in children of the Nurses' Health Study II	Weisskopf, Marc	Harvard University	\$0.00	Department of Defense

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Support ancillary studies within one or more large-scale, population-based surveillance and epidemiological studies, including U.S. populations, to collect data on environmental factors during preconception, and during prenatal and early postnatal development, as well as genetic data, that could be pooled (as needed), to analyze targets for potential gene/environment interactions by 2015. IACC
Recommended Budget: \$44,400,000 over 5 years.

Project Title	Principal Investigator	Institution	Funding	Funder
Population-based autism genetics & environment study	Buxbaum, Joseph	Mount Sinai School of Medicine	\$723,934.00	National Institutes of Health
Community-based study of autism spectrum disorders among 7-9 y old children in rural Bangladesh	Christian, Parul	Johns Hopkins University	\$196,051.00	Autism Speaks
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - California	Croen, Lisa	Kaiser Foundation Research Institute	\$1,020,000.00	Centers for Disease Control and Prevention
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - North Carolina	Daniels, Julie	University of North Carolina at Chapel Hill	\$1,020,001.00	Centers for Disease Control and Prevention
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Maryland	Fallin, Margaret Danielle	Johns Hopkins University	\$1,520,000.00	Centers for Disease Control and Prevention
The roles of environmental risks and GEX in increasing ASD prevalence	Kim, Young Shin	Yale University	\$575,290.00	National Institutes of Health
Gene-environment interactions in an autism birth cohort (supplement)	Lipkin, W. Ian	Columbia University	\$3,012,046.00	National Institutes of Health
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Colorado	Miller, Lisa	Colorado Department of Health and Environment	\$1,110,000.00	Centers for Disease Control and Prevention
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Pennsylvania	Pinto-Martin, Jennifer	University of Pennsylvania/Children's Hospital of Philadelphia	\$1,020,000.00	Centers for Disease Control and Prevention
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Data Coordinating Center	Reed, Phillip	Michigan State University	\$900,000.00	Centers for Disease Control and Prevention

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ACE Network: Multigenerational Familial and Environmental Risk for Autism (MINERvA) Network	Reichenberg, Abraham	Mount Sinai School of Medicine	\$1,000,000	National Institutes of Health
Centers for Autism and Developmental Disabilities Research and Epidemiology (CADDRE) - Georgia	Schendel, Diana; Schieve, Laura; Wiggins, Lisa	Centers for Disease Control and Prevention (CDC)	\$1,451,838 .00	Centers for Disease Control and Prevention
<u>3. Other</u>				
Not specific to any objective				
Project Title	Principal Investigator	Institution	Funding	Funder
FOXP2-regulated signaling pathways critical for higher cognitive functions (supplement)	Konopka, Genevieve	University of Texas Southwestern Medical Center	\$66,686.00	National Institutes of Health
FOXP2-regulated signaling pathways critical for higher cognitive functions	Konopka, Genevieve	University of Texas Southwestern Medical Center	\$248,921.00	National Institutes of Health
A history of behavioral genetics	Schaffner, Kenneth	University of Pittsburgh	\$0.00	National Science Foundation

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