DRAFT

2009 AUTISM SPECTRUM DISORDER RESEARCH PORTFOLIO ANALYSIS: AUTISM RESEARCH PROJECTS AND FUNDING

Prepared by the Office of Autism Research Coordination
and Acclaro Research Solutions, Inc.

IACC
INTERAGENCY AUTISM COORDINATING COMMITTEE
www.iacc.hhs.gov

2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002)

Question 1: When should I be concerned? $41,952,953

1.S.A Develop, with existing tools, at least one efficient diagnostic instrument (e.g. briefer, less time intensive) that is valid in diverse populations for use in large-scale studies by 2011. IACC Recommended Budget: $5,300,000 over 2 years. $4,728,120

Funder	Principal Investigator	Project Title	Funding
AS	Roark, Brian	Automated measurement of dialogue structure in autism	$44,250
CARD	Dixon, Dennis	Psychometric evaluation of the autism symptom diagnostic scale	$8,975
NIH	Fan, Jin	BrainVision BrainAmp MR plus	$120,670
NIH	Coster, Wendy	T table	$284,375
NIH	Lord, Catherine	Development of a brief screener for research in autism spectrum disorders	$498,777
NIH	Fein, Deborah	Early detection of pervasive developmental disorders (supplement)	$193,155
NIH	Fein, Deborah	Early detection of pervasive developmental disorders	$1,067,234
NIH	Howard, Barbara	Improving accuracy and accessibility of early autism screening	$318,946
NIH	Tiranoff, Louise	The creation of ASDRA (Autism spectrum disorder risk alert)	$968,717
NIH	Lord, Catherine	1/2 Development of a screening interview for research studies of ASD	$617,084
NIH	Bishop, Somer	2/2 Development of a screening interview for research studies of ASD	$364,291
SARRC	Smith, Christopher	Naturalistic observation diagnostic assessment for autism	$0*
SARRC	Smith, Christopher	Think Asperger's	$125,000
SF	Miles, Judith	Autism dysmorphology measure validity study	$47,958
SF	Deutsch, Curtis	Quantitative analysis of craniofacial dysmorphology in autism	$68,688

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1.S.B Validate and improve the sensitivity and specificity of new or existing screening and diagnostic tools, including comparison of general developmental screening versus autism-specific screening tools, in both high risk and population-based samples through studies of the following community populations that are diverse in terms of age, socio-economic status, race, ethnicity, characteristics of ASD, and general level of functioning by 2012. IACC Recommended Budget: $5,400,000 over 3 years.

$3,973,712

Funder	Principal Investigator	Project Title	Funding
AS	Bahrick, Lorraine	Attention to social and nonsocial events in children with autism	$149,888
AS	Dixon, Glenys	International trends in diagnoses and incidence of autism spectrum disorders	$54,866
AS	Tager-Flusberg, Helen	Novel methods for testing language comprehension in children with ASD	$150,000
AS	Lee, Li-Ching	The development of Chinese versions of ADOS and ADI-R	$0*
AS	Belmonte, Matthew	Video game environments for the integrative study of perception, attention and social cognition in autism and autism sibs	$0*
NIH	Wetherby, Amy	Early social communication characteristics of ASD in diverse cultures in the US a	$238,233
NIH	Eichler, Evan	Genomic identification of autism loci	$1,139,256
NIH	Wetherby, Amy	Improving and streamlining screening and diagnosis of ASD at 18-24 months of age	$971,606
NIH	Tager-Flusberg, Helen	Neurobehavioral research on infants at risk for SLI and autism	$710,348
NIH	Nelson, Charles	The development of face processing	$529,515
OAR	Campbell, Jonathan	University of Georgia – Carolina Autism Resource and Evaluation Center (UGA-CARES): A collaborative autism screening project utilizing web-based technology	$30,000

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NEW!	*1.S.C Conduct at least three studies to identify reasons for the health disparities in accessing early screening and diagnosis services by 2012. IACC Recommended Budget: $2,000,000 over 2 years disparities in accessing early screening and diagnosis*			$139,072
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	NIH	Mandell, David	Understanding the delay in the diagnosis of autism	$139,072
NEW!	*1.S.D Conduct at least two studies to understand the impact of early diagnosis on choice of intervention and outcomes by 2015. IACC Recommended Budget: $6,000,000 over 5 years.*			$0
	No projects funded under this objective			–
	1.L.A Identify behavioral and biological markers that separately, or in combination, accurately identify, before age 2, one or more subtypes of children at risk for developing ASD by 2014. IACC Recommended Budget: $33,300,000 over 5 years.			$13,565,554
	AS	Lewis, Suzanne	Clinical and gene signatures of ASDs	$61,000
	AS	Winter, Harland	Identifying gastrointestinal (GI) conditions in children with autism spectrum disorders (ASD)	$127,500
	AS	Wallace, Douglas; Gargus, Jay; Golomb, Beatrice; Haas, Richard; Naviaux, Robert; Barshop, Bruce	Mitochondria and autism	$363,400
	AS	Webb, Sara	Neurophysiological indices of risk and outcome in autism	$0*
	AS	Parlade, Meaghan	Temporal coordination of social communicative behaviors in infant siblings of children with autism	$28,000
	AS	Millen, Kathleen	The genetic link between autism and structural cerebellar malformations	$31,750

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DoD	White, Keith	Abnormal vestibulo-ocular reflexes in autism: A potential endophenotype	$510,146
DoD	Anderson, George	Biomarkers for autism and for gastrointestinal and sleep problems in autism	$473,046
DoD	Kang, Jing	Identification of lipid biomarkers for autism	$663,089
DoD	Shoffner, John	Mitochondrial defects in autism	$0*
DoD	Salafia, Carolyn	Placental vascular tree as biomarker of autism/ASD risk	$486,927
NIH	Dager, Stephen	A Longitudinal 3-D MRSI Study of Infants at High Risk for Autism	$225,553
NIH	Eichenbaum, Howard	Administrative core	$34,477
NIH	Klin, Ami	Assessment core	$568,028
NIH	Pierce, Karen	Clinical Phenotype: Recruitment and assessment core	$393,095
NIH	Grigorenko, Elena	Data management and analysis core	$202,737
NIH	Dobkins, Karen	Development of neural pathways in infants at risk for autism spectrum disorders	$328,313
NIH	Iverson, Jana	Early identification of autism: A prospective study	$566,827
NIH	Chawarska, Katarzyna	Gaze perception abnormalities in infants with ASD	$307,065
NIH	Ozonoff, Sally	Infants at risk of autism: A longitudinal study (supplement)	$1,022,289
NIH	Ozonoff, Sally	Infants at risk of autism: A longitudinal study	$583,831
NIH	Schork, Nicholas	Integrated biostatistical and bionformatic analysis core (IBBAC)	$202,457
NIH	Naigles, Letitia	Language development and outcome in children with autism (supplement)	$299,918
NIH	Naigles, Letitia	Language development and outcome in children with autism	$325,125
NIH	Kuhl, Patricia	Linguistic and social responses to speech in infants at risk for autism	$308,398

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NIH	James, Sandra	Metabolic biomarkers of autism: Predictive potential and genetic susceptibility	$380,150
NIH	Courchesne, Eric	MRI studies of early brain development in autism	$365,830
NIH	Sheinkopf, Stephen	Nonlinguistic vocalizations in autism: Acoustic cry analysis in early infancy	$74,200
NIH	Malesa, Elizabeth	Predicting outcome at age 5 of younger siblings of children with ASD	$40,866
NIH	Chawarska, Katarzyna	Prospective study of infants at high risk for autism	$286,887
NIH	Colombo, John	Pupil size and circadian salivary variations in autism spectrum disorder	$70,138
NIH	Wetherby, Amy	Social communication phenotype of ASD in the second year	$251,746
NIH	Pierce, Karen	Studying the biology and behavior of autism at 1-year: The well-baby check-up app	$261,462
NIH	Klin, Ami	The ontogeny of social visual engagement in infants at risk for autism	$584,587
NIH	Yao, Gang	Validation study of atypical dynamic pupillary light reflex as a biomarker for autism	$204,525
SARRC	Smith, Christopher	Family study of autism: Genomic and proteomic markers	$130,000
SF	Nelson, Charles	Electrophysiological, metabolic and behavioral markers of infants at risk	$92,397
SF	Hempstead, Barbara	Misregulation of BDNF in autism spectrum disorders	$150,000
SF	Klin, Ami	Model diagnostic lab for infants at risk for autism	$1,989,796
SF	Parker, Karen	Oxytocin biology and the social deficits of autism spectrum disorders	$150,000
SF	Kunkel, Louis	Signatures of gene expression in autism spectrum disorders	$150,000
SF	Piven, Joseph	Supplement to NIH grant: "A longitudinal MRI study of infants at risk for autism"	$270,000

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1.L.B Develop at least five measures of behavioral and /or biological heterogeneity in children or adults with ASD, beyond variation in intellectual disability, that clearly relate to etiology and risk, treatment response and/or outcome by 2015. IACC Recommended Budget: $71,100,000 over 5 years.	$8,832,885

Funder	Principal Investigator	Project Title	Funding
AS	Messinger, Daniel	Automated measurement of facial expression in autism: Deficits in facial nerve function?	$127,500
AS	Constantino, John	Ethnicity and the elucidation of autism endophenotypes	$61,000
AS	Bolton, Patrick	Imitation in autism	$61,000
AS	Mayes, Susan	Sleep, neuropsychological, mood, behavior, learning, and developmental problems in children with autism	$18,085
AS	Wozniak, Robert	Temperament, emotional expression, and emotional self-regulation in relation to later ASD diagnosis	$29,500
NIH	Nacewicz, Brendon	Amygdala structure and biochemistry in adolescents with autism	$27,618
NIH	Nordahl, Christine	Analyses of brain structure and connectivity in young children with autism	$90,000
NIH	Landa, Rebecca	Autism: Social and communication predictors in siblings	$751,256
NIH	Morgan, John	Cellular structure of the amygdala in autism	$45,218
NIH	Koegel, Robert	Child-initiated communicative interactions and autism intervention	$322,692
NIH	Swedo, Susan	Clinical and behavioral phenotyping of autism and related disorders	$2,416,235
NIH	Budreck, Elaine	Distinct function of the neuroligin 3 postsynaptic adhesion complex	$37,784
NIH	Dawson, Geraldine	Early detection and intervention in infants at risk for autism	$627,746

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NIH	Roberts, Timothy	Electrophysiological signatures of language impairment in autism spectrum disorder (supplement)	$149,432
NIH	Roberts, Timothy	Electrophysiological signatures of language impairment in autism spectrum disorder	$347,590
NIH	Messinger, Daniel	Emotion, communication, and EEG: Development and risk	$298,154
NIH	Moody, Eric	Emotional mimicry in children with autism	$48,647
NIH	Klin, Ami	Eye-tracking studies of social engagement	$307,211
NIH	Mills, James	Growth and maturation in children with autism	$57,383
NIH	Duncan, James	Integrated function/structure image analysis in autism	$339,441
NIH	Marco, Elysa	Magnetic source imaging and sensory behavioral characterization in autism	$176,201
NIH	Agam, Yigal	Multimodal studies of executive function deficits in autism spectrum disorders	$48,954
NIH	Kang, Sun-Mee	Multiple social tasks and social adjustment	$144,875
NIH	Carrasco, Melisa	Neural mechanisms underlying obsessive compulsiveness in ASD	$32,236
NIH	Klin, Ami	Perception of social and physical contingencies in infants with ASD	$413,750
NIH	Macari, Suzanne	Perceptual factors affecting social attention in autism spectrum disorders	$82,750
NIH	Klin, Ami	Performance indices of social disability in toddlers with autism	$497,995
NIH	Oberman, Lindsay	Plasticity in autism spectrum disorders: Magnetic stimulation studies	$50,054
NIH	Yoder, Paul	Predicting useful speech in children with autism (supplement)	$59,553
NIH	Yoder, Paul	Predicting useful speech in children with autism	$689,435
NIH	Scott, Ashley	Reward systems in children with autism	$29,840

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NIH	Wynn, Karen	Social evaluation in infants and toddlers	$413,750
OAR	Macdonald, Rebecca	Using a direct observation assessment battery to assess outcome of early intensive behavioral intervention for children with autism	$30,000
1.L.C Identify and develop measures to assess at least three "continuous dimensions" (i.e. social reciprocity, communication disorders, and repetitive/restrictive behaviors) of ASD symptoms and severity that can be used by practitioners and /or families to assess response to intervention for people with ASD across the lifespan by 2016. IACC Recommended Budget: $18,500,000 over 5 years.			$861,069
NIH	Nickrenz, Elizabeth	Asperger's syndrome: Diagnosis, interpretation and impact	$34,360
NIH	Tilford, John	Measuring quality adjusted life years in children with autism spectrum disorders	$441,724
NIH	Chang, Edward	Neocortical mechanisms of categorical speech perception	$132,214
SF	Elhadad, Noemie	Characterizing ASD phenotypes by multimedia signal and natural language processing	$65,726
SF	Ullman, Michael	Language learning in autism	$149,545
SF	Snedeker, Jesse	Prosodic and pragmatic processes in highly verbal children with autism	$37,500
1.O. Not specific to any objective			$9,852,542
AS	Kaufmann, Walter	Autism spectrum disorder in Down syndrome: A model of repetitive and stereotypic behavior for idiopathic ASD	$60,000
AS	Halladay, Alicia	Baby siblings research consortium	$26,634

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AS	Oppenheim, David	Interactions between mothers and young children with ASD: Associations with maternal and child characteristics	$61,000
CARD	Dixon, Dennis	Evaluation of behavior problems in children with ASD	$30,025
CARD	Dixon, Dennis	Psychometric evaluation of the behavior problems inventory in ASD	$25,032
CARD	Wilke, Arthur	Psychometric evaluation of the QABF in children with ASD	$11,069
DoD	Yao, Gang	Atypical pupillary light reflex in individuals with autism	$546,577
DoD	Gordon, Barry	Receptive vocabulary knowledge in low-functioning autism as assessed by eye movements, pupillary dilation, and event-related potentials	$615,000
DoD	Alaedini, Armin	Systematic characterization of the immune response to gluten and casein in autism spectrum disorders	$126,432
NIH	Leventhal, Bennett	Assessment core	$377,572
NIH	Paul, Rhea	Auditory mechanisms of social engagement	$275,966
NIH	Constantino, John	Autistic traits: Life course and genetic structure	$573,470
NIH	Grill-Spector, Kalanit	Development of face perception and recognition	$68,253
NIH	Bahrick, Lorraine	Development of intermodal perception of social events: Infancy to childhood	$332,204
NIH	Volkmar, Fred	Developmental processes, trajectories, and outcomes in autism	$286,887
NIH	Sheinkopf, Stephen	Early detection of autism through acoustic analysis of cry	$257,066
NIH	Ellis-Weismer, Susan	Early language development within the autism spectrum	$505,018
NIH	Dichter, Gabriel	Emotion-modulated psychophysiology of autism spectrum disorders	$258,981

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NIH	Van Santen, Jan	Expressive and receptive prosody in autism	$559,970
NIH	Black, Lois	Expressive crossmodal affect integration in autism	$230,998
NIH	Malone, Richard	Eyeblink in children and adolescents with autism spectrum disorders: A pilot study	$229,500
NIH	Mitchell, Teresa	Multimodal analyses of face processing in autism and Down syndrome	$155,270
NIH	Webb, Sara	Neural correlates of eye gaze processing in Fragile X syndrome and autism spectrum	$78,000
NIH	Mesibov, Gary	Portable guidance in autism spectrum disorder	$282,025
NIH	Sheinkopf, Stephen	Pre- and postnatal neurobehavioral profiles in infants at risk for autism	$74,200
NIH	Baranek, Grace	Sensory experiences in children with autism (supplement)	$315,122
NIH	Baranek, Grace	Sensory experiences in children with autism	$486,700
NIH	Abbeduto, Leonard	Social-affective bases of word learning in Fragile X syndrome and autism	$552,090
NIH	Stone, Wendy	Social-emotional development of infants at risk for autism spectrum	$606,646
NIH	Paul, Rhea	Studies of social communication in speakers with autism spectrum disorder	$286,883
NIH	Adamson, Lauren	The development of joint attention after infancy	$307,063
NIH	Sigman, Marian	The development of the siblings of children with autism: A longitudinal study (supplement)	$55,372
NIH	Sigman, Marian	The development of the siblings of children with autism: A longitudinal study	$331,863
NIH	Piggot, Judith	The diagnostic and assessment core (supplement)	$51,580
NIH	Piggot, Judith	The diagnostic and assessment core	$309,135
NIH	Bookheimer, Susan	The imaging core	$54,458
NIH	Sproat, Richard	Tools for automated assessment of language	$198,687

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NIH	Rivera, Susan	Visual processing and later cognitive effects in infants with Fragile X syndrome	$249,794

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002)

Question 2: How can I understand what is happening? $65,137,248

2.S.A Support at least four research projects to identify mechanisms of metabolic and /or immune system interactions with the central nervous system that may underlie the development of ASD during prenatal-postnatal life by 2010. IACC Recommended Budget: $9,800,000 over 4 years.	$7,811,087

Funder	Principal Investigator	Project Title	Funding
ARI	Ashwood, Paul	CD8+ lymphocyte function in autism	$27,250
ARI	Ashwood, Paul	CD8+ lymphocyte function in autism	$27,250
ARI	Jyonouchi, Harumi	Impact of innate immunity on regressive autism	$25,000
ARI	Jyonouchi, Harumi	Impact of innate immunity on T and B cell differentiation in autistic children/altered TLR response in a subset of children with regressive autism	$25,000
ARI	Jyonouchi, Harumi	Impact of innate immunity on T and B cell differentiation in autistic children/altered TLR response in a subset of children with regressive autism	$33,000
ARI	Deth, Richard	Modulation of neuronal cysteine update and redox status by morphine, gluten/casein-derived opiates and naltrexone	$44,000
ARI	Russo, Anthony	Relationship between celiac disease and autism	$8,000
ARI	Kushak, Rafail	Repository for tissues from children with and without autism	$25,000
AS	Elmer, Bradford	A role for immune molecules in cortical connectivity: potential implications for autism	$28,000
AS	Rall, Glenn	Consequences of maternal antigen exposure on offspring immunity: An animal model of vertical tolerance	$138,915
AS	Pletnikov, Mikhail	Gene-environment interactions in the pathogenesis of autism-like neurodevelopmental damage: A mouse model	$0*

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Funder	Principal Investigator	Project Title	Funding
AS	Hsiao, Elaine	How does IL-6 mediate the development of autism-related behaviors?	$28,000
AS	McAllister, A. Kimberley	Immune molecules and cortical synaptogenesis: Possible implications for the pathogenesis of autism	$127,500
AS	Muratore, Christina	Influence of oxidative stress on transcription and alternative splicing of methionine synthase in autism	$0*
AS	Giulivi, Cecilia	Is autism a mitochondrial disease?	$0*
AS	Palmer, Theo	Maternal infection and autism: Impact of placental sufficiency and maternal inflammatory responses on fetal brain development	$127,500
AS	Diamond, Betty	The pathogenesis of autism: Maternal antibody exposure in the fetal brain	$0*
NIH	Wallace, Douglas	A mitochondrial etiology of autism	$597,884
NIH	Riesenhuber, Maximilian	A model-based investigation of face processing in autism	$12,950
NIH	Ellerbeck, Kathryn	Autism: Role of oxytocin	$6,505
NIH	Annett, Robert	Characterization of the mirror neuron system in 3-9 month old infants using the	$4,748
NIH	Ramer, Jeanette	Evaluation and treatment of copper/zinc imbalance in children with autism	$7,395
NIH	Ungerleider, Leslie	Functional anatomy of face processing in the primate brain	$1,678,309
NIH	Carpentier, Pamela	Maternal inflammation alters fetal brain development via tumor necrosis factor-al	$12,928
NIH	Zeffiro, Thomas	MRI studies of cognition and sensorimotor integration	$7,770
NIH	Just, Marcel	MRI System for neuroimaging typical and atypical cognitive and social development	$2,000,000
NIH	Swedo, Susan	Neuroimmunologic investigations of autism spectrum disorders (ASD)	$348,146
NIH	Bauman, Melissa	Primate models of autism	$724,953

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Funder	Principal Investigator	Project Title	Funding
NIH	Van De Water, Judy	Project 2: Immunological susceptibility of autism	$136,181
NIH	Van Zijl, Peter	Radiofrequency transmit and receive upgrade for 3T research scanner	$500,000
NIH	Steinman, Kyle	Structural brain differences between autistic and typically-developing siblings	$12,030
NIH	Smith, Charles	Upgrade to multiuser 3T magnetic resonance imager	$500,000
SF	Patterson, Paul	A non-human primate autism model based on maternal infection	$446,873
SF	Littman, Dan	Regulation of inflammatory Th17 cells in autism spectrum disorder	$150,000
2.S.B Launch three studies that specifically focus on the neurodevelopment of females with ASD, spanning basic to clinical research on sex differences by 2011. IACC Recommended Budget: $8,900,000 over 5 years.			$993,806
NIH	Weiss, Lauren	A sex-specific dissection of autism genetics	$270,375
NIH	Rissman, Emilie	Sex chromosomes, epigenetics, and neurobehavioral disease	$374,036
NIH	De Vries, Geert	The neural basis of sexually dimorphic brain function	$349,395
2.S.C Identify ways to increase awareness among the autism spectrum community of the potential value of brain and tissue donation to further basic research by 2011. IACC Recommended Budget: $1,400,000 over 2 years.			$726,911
AS	Hof, Patrick	Autism celloidin library	$109,000
NIH	Schwartz, Philip	An open resource for autism iPSCs and their derivatives	$617,911

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NEW!

2.S.D Launch three studies that target improved understanding of the underlying biological pathways of genetic conditions related to autism (e.g. Fragile X, Rett syndrome, tuberous sclerosis complex) and how these conditions inform risk assessment and individualized intervention by 2012. IACC Recommended Budget: $9,000,000 over 5 years.

$9,233,574

Funder	Principal Investigator	Project Title	Funding
AS	Kelleher, Raymond	An adult brain-specific mouse model of neuronal TSC inactivation	$60,000
AS	Huber, Kimberly	Developmental versus acute mechanisms mediating altered excitatory synaptic function in the Fragile X syndrome mouse model	$0*
AS	Reiter, Lawrence	Identification of UBE3A substrates using proteomic profiling in drosophila	$0*
AS	Xiong, Qiaojie	Neural circuit deficits in animal models of Rett syndrome	$0*
AS	Williams, Megan	The role of the autism-associated gene Tuberous Sclerosis Complex 2 (TSC2) in presynaptic development	$54,000
AS	Sahin, Mustafa	Visual system connectivity in a high-risk model of autism	$41,000
DoD	Duffey, Michael	Gastrointestinal functions in autism	$118,620
DoD	Morris, Jill	The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	$110,250
NIH	Hazlett, Heather	A longitudinal MRI study of brain development in Fragile X syndrome	$622,099
NIH	Losh, Molly	An investigation of neuropsychological endophenotypes in autism and Fragile X	$73,938
NIH	Reiss, Allan	Augmentation of the cholinergic system in Fragile X syndrome: A double-blind plac	$240,000
NIH	Loring, Jeanne	Autism iPSCs for studying function and dysfunction in human neural development	$317,520
NIH	Gall, Christine	BDNF and the restoration of spine plasticity with autism spectrum disorders	$571,019

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Funder	Principal Investigator	Project Title	Funding
NIH	Huang, Z. Josh	Cell type-based genomics of developmental plasticity in cortical GABA interneuron	$252,000
NIH	Huang, Z. Josh	Cell-based genomic analysis in mouse models of Rett syndrome	$498,790
NIH	Akbarian, Schahram	Chromatin alterations in Rett syndrome	$271,798
NIH	Potocki, Lorraine	Clinical correlations of contiguous gene syndromes	$21,923
NIH	Gibson, Jay	Cortical circuit changes and mechanisms in a mouse model of Fragile X syndrome (supplement)	$47,848
NIH	Gibson, Jay	Cortical circuit changes and mechanisms in a mouse model of Fragile X syndrome	$293,198
NIH	Zoghbi, Huda	Elucidating the roles of SHANK3 and FXR in the autism interactome	$403,492
NIH	Bomar, Jamee	Elucidation of the developmental role of Jakmip1, and autism-susceptibility gene	$30,418
NIH	Dalton, Kim	Face processing and brain function associated with autistic symptoms in Fragile X	$73,500
NIH	Grodberg, David	fMRI study of self-produced tactile stimulation in autistic adolescents	$244
NIH	Hall, Randy	Fundamental mechanisms of GPR56 activation and regulation	$135,625
NIH	Usdin, Karen	Gene silencing in Fragile X syndrome	$312,90
NIH	Broadie, Kendal	Genetic and developmental analyses of Fragile X syndrome	$532,205
NIH	Hessl, David	Genetics and physiology of social anxiety in Fragile X	$160,398
NIH	Buxbaum, Joseph	Greater New York Autism Center of Excellence – Clinical core	$1,224
NIH	Halpain, Shelley	High content screens of neuronal development for autism research	$207,931
NIH	Gambello, Michael	Mouse models of the neuropathology of tuberous sclerosis complex	$258,344
NIH	Fu, Zhanyan	Neuroligin regulation of central GABAergic synapses	$78,000

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Funder	Principal Investigator	Project Title	Funding
NIH	Ronnett, Gabriele	Olfactory abnormalities in the modeling of Rett syndrome	$358,750
NIH	Reiter, Lawrence	Proteomics in drosophila to identify autism candidate substrates of UBE3A (supplement)	$10,000
NIH	Reiter, Lawrence	Proteomics in drosophila to identify autism candidate substrates of UBE3A	$319,550
NIH	Lamantia, Anthony	Regulation of 22q11 genes in embroyonic and adult forebrain	$305,105
NIH	Chao, Hsiao-Tuan	Role of excitation and inhibition in Rett syndrome	$34,866
NIH	Engelman, Holly	Role of neuroligins in long-term plasticity at excitatory and inhibitory synapses	$57,194
NIH	Knickmeyer, Rebecca	Sex differences in early brain development; Brain development in turner syndrome	$150,049
NIH	Fuccillo, Marc	Synaptic analysis of neuroligin1 function	$50,054
NIH	Gao, Fen-Biao	The MicroRNA pathway in translational regulation of neuronal development	$417,813
NIH	Klann, Eric	Translation regulation in hippocampal LTP and LTD	$375,817
NIH	Sun, Yi	TrkB agonist(s), a potential therapy for autism spectrum disorders	$269,500
NIH	Yoon, Jennifer	White matter connections of the face processing network in children and adults	$41,176
SF	Sulzer, David	Aberrant synaptic function caused by TSC mutation in autism	$173,726
SF	Huang, Z.	Cellular and molecular alterations in GABAergic inhibitor circuits by mutations in MeCP2	$441,032
SF	Sanes, Joshua	Connectopathic analysis of autism	$78,150
SF	Huber, Kimberly	Coordinated control of synapse development by autism-linked genes	$75,000
SF	Parada, Luis	Mouse models of human autism spectrum disorders: gene targeting in specific brain regions	$100,000
SF	Tsien, Richard	Probing a monogenic form of autism from molecules to behavior	$187,500

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NEW!

2.S.E Launch three studies that target the underlying biological mechanisms of co-occurring conditions with autism including seizures/epilepsy, sleep disorders and familial autoimmune disorders by 2012. IACC Recommended Budget: $9,000,000 over 5 years.

$5,186,144

Funder	Principal Investigator	Project Title	Funding
AS	Barnes, Gregory	Relation of sleep epileptiform discharges to insomnia and daytime behavior	$60,000
NIH	Amaral, David	Anatomy of primate amygdaloid complex	$106,669
NIH	Hopkins, Bobbi	Clinical trial: Treatment of sleep problems in children with autism spectrum dis	$6,814
NIH	Rudy, Bernardo	Molecular components of A-type K+ channels	$352,538
NIH	Castellanos, Francisco	Neural dissection of hyperactivity/inattention in autism	$1,179,863
NIH	Pascual, Juan	Neurological diseases due to inborn errors of metabolism	$17,838
NIH	Danzer, Steve	Selective disruption of hippocampal dentate granule cells in autism: impact of PT	$375,000
NIH	Molholm, Sophie	Sensory processing and integration in autism	$593,677
NIH	Dager, Stephen	Structural and chemical brain imaging of autism	$521,038
NIH	Bennetto, Loisa	Taste, smell, and feeding behavior in autism: A quantitative traits study	$592,498
NIH	Swedo, Susan	Treatment of medical conditions among individuals with autism spectrum disorders	$535,209
NIH	Jensen, Frances	Understanding the cognitive impact of early life epilepsy	$845,000

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NEW!	*2.S.F Launch two studies that focus on prospective characterization of children with reported regression, to investigate potential risk factors by 2012. IACC Recommended Budget: $4,500,000 over 5 years.*			$607,379
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	NIH	Levitt, Pat	Neurodevelopmental mechanisms of social behavior	$607,379
NEW!	*2.S.G Support five studies that associate specific genotypes with functional or structural phenotypes, including behavioral and medical phenotypes (e.g. nonverbal individuals with ASD and those with cognitive impairments)* by 2015. *IACC Recommended Budget: $22,600,000 over 5 years.*			$5,503,947
	AS	Lee, Jillian	fMRI evidence of genetic influence on rigidity in ASD	$28,000
	AS	Monk, Christopher	Neural correlates of serotonin transporter gene polymorphisms and social impairment in ASD	$0*
	DoD	Devine, Darragh	Self-injurious behavior: An animal model of an autism endophenotype	$107,990
	NIH	Hardan, Antonio	A neuroimaging study of twin pairs with autism	$626,552
	NIH	Sudhof, Thomas	A systematic test of the relation of ASD heterogeneity to synaptic function	$898,037
	NIH	Jacob, Suma	Autism: neuropeptide hormones and potential pathway genes	$185,897
	NIH	Lindgren, Kristen	Autism: the neural substrates of language in siblings	$56,140
	NIH	Cheyette, Benjamin	Autism-specific mutation in DACT1: Impact on brain development in a mouse model	$193,125
	NIH	Vaccarino, Flora	Cellular and genetic correlates of increased head size in autism spectrum disorde	$203,943
	NIH	Hallmayer, Joachim	Exploring the neuronal phenotype of autism spectrum disorders using induced pluri	$258,420

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NIH	Dulawa, Stephanie	Mechanisms for 5-HTT control of PPI and perseverative behavior using mouse models	$345,375
NIH	Herbert, Martha	Multimodal neuroimaging of white matter in autism	$472,805
NIH	Piven, Joseph	Neural circuitry of social cognition in the broad autism phenotype	$562,311
NIH	Powell, Craig	Neuroligin function in vivo: Implications for autism and mental retardation	$392,500
NIH	Ellis, James	Patient iPS cells with copy number variations to model neuropsychiatric disorders	$210,546
NIH	Talkowski, Michael	Rapid characterization of balanced genomic rearrangements contributing to autism	$49,343
NIH	Bergman, Mica	Regulation of MET expression in autism disorder and forebrain ontogeny	$25,800
NIH	Dolmetsch, Ricardo	Using induced pluripotent stem cells to identify cellular phenotypes of autism	$400,000
SF	Ousley, Opal	Language processing in children with 22q11 deletion syndrome and autism	$120,000
SF	Pelphrey, Kevin	Longitudinal neurogenetics of atypical social brain development in autism	$292,163
SF	Buckner, Randy	The brain genomics superstruct project	$75,000
2.L.A Complete a large-scale, multi-disciplinary, collaborative project that longitudinally and comprehensively examines how the biological, clinical, and developmental profiles of individuals, with a special emphasis on females, youths, and adults with ASD, change over time as compared to typically developing people by 2020. IACC Recommended Budget: $126,200,000 over 12 years.			$6,086,548
AS	Kleinhans, Natalia	Investigation of the link between early brain enlargement and abnormal functional connectivity in autism spectrum disorders	$124,816
AS	Hazlett, Heathercody	MRI study of brain development in school age children with autism	$149,864

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	Funder	Principal Investigator	Project Title	Funding
	NIH	Piven, Joseph	A longitudinal MRI study of infants at risk for autism	$3,317,464
	NIH	Vaidya, Chandan	Functional MRI of attention regulation in people with and without autism	$3,452
	NIH	Seltzer, Marsha	Impacts of parenting adolescents and adults with autism	$496,331
	NIH	Amaral, David	Interdisciplinary investigation of biological signatures of autism subtypes	$1,429,402
	NIH	Fan, Jin	Neural mechanisms of attentional networks in autism	$490
	NIH	Redcay, Elizabeth	Neural substrate of language and social cognition: autism and typical development	$47,210
	NIH	Losh, Molly	Pragmatic skills of young males and females with Fragile X syndrome	$517,519
NEW!	*2.L.B Launch at least three studies which evaluate the applicability of ASD phenotype and/or biological signature findings for performing diagnosis, risk assessment, or clinical intervention by 2015. IACC Recommended Budget: $7,200,000 over 5 years.*			$1,532,262
	AS	Benasich, April; Valerie Schafer	Assessing information processing and capacity for understanding language in non-verbal children with autism	$280,105
	AS	Mohapatra, Leena	Cognitive control and social engagement among younger siblings of children with autism	$28,000
	AS	Croen, Lisa	Early biologic markers for autism	$60,000
	AS	Connolly, John	Innovative assessment methods for autism: A proof of principle Investigation of “nonverbal” autism	$72,116
	ASF	Hannigen, Sarah	Defining high and low risk expression of emotion in infants at risk for autism	$30,000
	ASF	Burner, Karen	Observational and electrophysiological assessments of temperament in infants at risk for autism spectrum disorders	$30,000

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NIH	Klin, Ami	Administrative core	$147,818
NIH	Rojas, Donald	Cerebral asymmetry and language in autism	$6,798
NIH	O'Hearn, Kirsten	Development of ventral stream organization	$131,870
NIH	Dichter, Gabriel	Functional neuroimaging of psychopharmacologic intervention for autism	$155,901
NIH	Siegel, Jeff	Language and social communication in autism	$3,406
NIH	Knaus, Tracey	Language and social communication in autism	$6,798
NIH	Fein, Deborah	Language functioning in optimal outcome children with a history of autism	$457,153
NIH	Levitt, Jennifer	Neuroimaging and symptom domains in autism	$6,798
NIH	Schultz, Robert	Neuroimaging of autism spectrum disorders	$6,798
SF	Krieger, Abba	A study of autism	$108,701
2.O Not specific to any objective			$27,455,589
ARI	Revzin, Alexander	A microdevice for immune profiling of children with autism	$19,000
ARI	Finegold, Sid	Real time PCR for yeasts	$20,000
AS	Dapretto, Mirella	A combined fMRI-TMS study on the role of the mirror neuron system in social cognition: Moving beyond correlational evidence	$127,500
AS	Conturo, Thomas	Analysis of brain microstructure in autism using novel diffusion MRI approaches	$59,992
AS	Barbas, Helen	Architecture of myelinated axons linking frontal cortical areas	$54,000
AS	Shi, Song-Hai	Are neuronal defects in the cerebral cortex linked to autism?	$0*

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002)

Question 2: How can I understand what is happening?

Funder	Principal Investigator	Project Title	Funding
AS	Chiba, Andrew	Attentional abnormalities in autism: An electronphysiological study of the basal forebrain and central nucleus of the amygdala	$60,000
AS	Zhao, Xuesong	BDNF secretion and neural precursor migration	$0*
AS	Mottron, Laurent	Behavioral and functional neuroimaging investigations of visual perception and cognition in autistics	$127,168
AS	Chen, Yue	Cortical mechanisms underlying visual motion processing impairments in autism	$60,000
AS	Gabbott, Paul	Dendritic organization within the cerebral cortex in autism	$144,822
AS	Fujinami, Robert	Deriving neuroprogenitor cells from peripheral blood of individuals with autism	$46,597
AS	Castellanos, Francisco; Lord, Cathy	Development of brain connectivity in autism	$312,916
AS	Murias, Michael	Electrical measures of functional cortical connectivity in autism	$60,000
AS	Mosconi, Matthew	fMRI studies of cerebellar functioning in autism	$46,000
AS	Rojas, Donald	Gamma band dysfunction as a local neuronal connectivity endophenotype in autism	$78,797
AS	Thyagarajan, Amar	Imaging synaptic neurexin-neuroligin complexes by proximity biotinylation: Applications to the molecular pathogenesis of autism	$49,000
AS	Zaki, Jamil	Informational and neural bases of empathic accuracy in autism spectrum disorder	$0*
AS	Barnea-Goraly, Naama	Investigation of cortical folding complexity in children with autism, their autism-discordant siblings, and controls	$0*
AS	Mizuno, Akiko	Linguistic perspective-taking in adults with high-functioning autism: Investigation of the mirror neuron system	$28,000

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AS	Wilson, Lisa	MEG investigation of phonological processing in autism	$28,000
AS	Kenet, Tal	MEG investigation of the neural substrates underlying visual perception in autism	$127,081
AS	Fein, Deborah	Mimicry and imitation in ASDs	$31,685
AS	Colman, Roberta	Molecular basis of autism associated with human adenylosuccinate lyase gene defects	$30,000
AS	Essick, Gregory	Multisensory processing in autism	$104,607
AS	Bennetto, Loisa	Neural basis of audiovisual integration during language comprehension in autism	$30,000
AS	Greene, Deanna	Neural basis of socially driven attention in children with autism	$28,000
AS	Montague, P. Read	Neural correlates of social exchange and valuation in autism	$149,985
AS	Young, Larry	Neural mechanisms of social cognition and bonding	$31,387
AS	Foss-Feig, Jennifer	Neural mechanisms underlying an extended multisensory temporal binding window in ASD	$28,000
AS	D'cruz, Anna-Maria	Neurobiological mechanisms of insistence on sameness in autism	$28,000
AS	Comoletti, Davide	Neuroligins and neurexins as autism candidate genes: Study of their association in synaptic connectivity	$60,000
AS	Mostofsky, Stewart	Novel approaches for investigating the neurology of autism: Detailed morphometric analysis and correlation with motor impairment	$127,500
AS	Maness, Patricia	NrCAM, a candidate susceptibility gene for visual processing deficits in autism	$127,500
AS	Wang, Samuel	Optical analysis of circuit-level sensory processing in the cerebellum	$0*
AS	Bowler, Dermot	Past, present and future-oriented thinking about the self in children with ASD	$61,000
AS	Stewart, Mary	Phonological processing in the autism spectrum	$32,000
AS	Murias, Michael	Psychophysiological approaches to the study of autism	$26,000

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Funder	Principal Investigator	Project Title	Funding
AS	Robins, Diana	Psychophysiological mechanisms of emotion perception	$0*
AS	Rand, James	Role of neuroligin in synapse stability	$127,500
AS	Ramesh, Vijaya	Role of Pam in synaptic morphology and function	$127,497
AS	Okerlund, Nathan	Roles of Wnt signaling/scaffolding molecules in autism	$28,000
AS	Mooney, Sandra	Social behavior deficits in autism: Role of amygdala	$93,500
AS	Courchesne, Eric	Stereological analyses of neuron numbers in frontal cortex from age 3 years to adulthood in autism	$0*
AS	Greenberg, Michael	The effects of Npas4 and Sema4d on inhibitory synapse formation	$127,500
AS	Christ, Shawn	The neural correlates of transient and sustained executive control in children with autism spectrum disorder	$60,000
AS	Bastian, Amy	Understanding perception and action in autism	$32,000
AS	Wagner, Schlomo	Using genetically modified mice to explore the neuronal network involved in social recognition	$60,000
AS	Shield, Aaron	Visual perspective-taking and the acquisition of American sign language by deaf children with autism	$28,000
AS	Just, Marcel	Visuospatial processing in adults and children with autism	$30,000
CARD	Dixon, Dennis	Description and assessment of sensory abnormalities in ASD	$18,968
CARD	Dixon, Dennis	Evaluation of sleep disturbance in children with ASD	$27,456
CARD	Dixon, Dennis	Presence of clostridia in children with and without ASD	$12,054
DoD	Kushak, Rafail	Analysis of the small intestinal microbiome of children with autism	$132,750

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Funder	Principal Investigator	Project Title	Funding
DoD	Bear, Mark	Development of a high-content neuronal assay to screen therapeutics for the treatment of cognitive dysfunction in autism spectrum disorders	$606,335
DoD	Mong, Jessica	Etiology of sleep disorders in ASD: Role of inflammatory cytokines	$0*
DoD	Shoffner, John	Mechanisms of mitochondrial dysfunction in autism	$489,355
DoD	White, Stephanie	Role of autism-susceptibility gene, CNTNAP2, in neural circuitry for vocal communication	$577,500
NIH	Fan, Jin	Anterior cingulate and fronto-insular related brain networks in autism	$194,745
NIH	Lainhart, Janet	Atypical late neurodevelopment in autism: A longitudinal MRI and DTI study	$503,378
NIH	Vierck, Esther	Autistic endophenotypes and their associations to oxytocin and cholesterol	$84,055
NIH	Serna, Richard	Behavioral and sensory evaluation of auditory discrimination in autism	$150,220
NIH	Pruett, John	Behavioral pilot for an imaging study of social attention deficits in autism	$205,200
NIH	Allen, Greg	Cerebellar anatomic and functional connectivity in autism spectrum disorders	$251,419
NIH	Mittleman, Guy	Cerebellar modulation of frontal cortical function	$347,643
NIH	Meredith, Michael	Chemosensory processing in chemical communication	$287,963
NIH	Sweeney, John	Cognitive affective and neurochemical processes underlying IS in autism	$377,577
NIH	Solomon, Marjorie	Cognitive control in autism	$146,960
NIH	Kenet, Tal	Coherence and temporal dynamics in auditory cortex of children with autism	$88,292
NIH	Di Martino, Adriana	Connectivity of anterior cingulate cortex networks in autism	$265,044
NIH	Reiss, Allan	Cortical complexity in children with autism unaffected siblings and controls	$79,000

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Funder	Principal Investigator	Project Title	Funding
NIH	Strauss, Mark	Development of categorization, facial knowledge in low and high functioning autism (supplement)	$81,816
NIH	Strauss, Mark	Development of categorization, facial knowledge in low and high functioning autism	$386,379
NIH	Haist, Frank	Development of the functional neural systems for face expertise	$524,017
NIH	Conturo, Thomas	Diffusion tensor MRI and histopathology of brain microstructure and fiber pathways (supplement)	$2
NIH	Conturo, Thomas	Diffusion tensor MRI and histopathology of brain microstructure and fiber pathways	$12
NIH	Pelphrey, Kevin	Disturbances of affective contact: Development of brain mechanisms for emotion (supplement)	$32,703
NIH	Pelphrey, Kevin	Disturbances of affective contact: Development of brain mechanisms for emotion	$154,445
NIH	Blagburn, Jonathan	Engrailed and the control of synaptic circuitry in drosophila	$112,500
NIH	Joyner, Alexandra	Engrailed genes and cerebellum morphology, spatial gene expression and circuitry	$474,750
NIH	Courchesne, Eric	fMRI Studies of neural dysfunction in autistic toddlers	$614,468
NIH	Levitt, Pat	Function and structure adaptations in forebrain development	$568,834
NIH	Joseph, Jane	Functional neuroanatomy of developmental changes in face processing	$7,712
NIH	Fatemi, Sayyed	GABAergic dysfunction in autism (supplement)	$63,950
NIH	Fatemi, Seyyed	GABAergic dysfunction in autism	$294,344
NIH	Casanova, Manuel	Gross morphological correlates to the minicolumnopathy of autism	$287,554
NIH	Poptani, Harish	High-resolution diffusion tensor imaging in mouse models relevant to autism	$253,735

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NIH	Peterson, Bradley	Identifying brain-based biomarkers for ASD and their biological subtypes	$1,206,925
NIH	Townsend, Jeanne	Imaging brain and movement in ASD	$270,296
NIH	Yasuda, Ryohei	Imaging signal transduction in single dendritic spines	$390,000
NIH	Pierce, Karen	Imaging the autistic brain before it knows it has autism	$206,916
NIH	Hickok, Gregory	Integrative functions of the planum temporale	$452,524
NIH	Mueller, Ralph-Axel	Linking local activity and functional connectivity in autism	$388,825
NIH	Dubray, Molly	Longitudinal neurodevelopment of auditory and language cortex in autism	$27,318
NIH	Dapretto, Mirella	Mirror neuron and reward circuitry in autism (supplement)	$51,364
NIH	Dapretto, Mirella	Mirror neuron and reward circuitry in autism	$307,838
NIH	Diantonio, Aaron	Molecular mechanisms regulating synaptic strength (supplement)	$32,258
NIH	Diantonio, Aaron	Molecular mechanisms regulating synaptic strength	$299,250
NIH	Henderson, Heather	Motivation, self-monitoring, and family process in autism	$304,247
NIH	Mostofsky, Stewart	Motor skill learning in autism	$332,646
NIH	Peltier, Scott	MRI measures of neural connectivity in Asperger's disorder	$208,337
NIH	Kleinhans, Natalia	Multimodal brain imaging in autism spectrum disorders	$165,397
NIH	Smith, Elizabeth	Multisensory integration and temporal synchrony in autism	$34,176
NIH	Ghazanfar, Asif	Multisensory integration of faces and voices in the primate temporal lobe	$335,983
NIH	Veenstra-Vanderweele, Jeremy	Murine genetic models of autism	$172,390

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Funder	Principal Investigator	Project Title	Funding
NIH	Huffman, Kelly	Neocortical regionalization: Analysis of genetic and epigenetic influences	$75,000
NIH	Aziz-Zadeh, Lisa	Neural basis for the production and perception of prosody	$81,500
NIH	Lewine, Jeffrey	Neurobiological correlates of language dysfunction in autism spectrum disorders (supplement)	$8,688
NIH	Lewine, Jeffrey	Neurobiological correlates of language dysfunction in autism spectrum disorders	$404,389
NIH	Gusnard, Debra	Neurobiology of affective prosody perception in autism	$190,000
NIH	Vaidya, Chandan	Neuroimaging of top-down control and bottom-up processes in childhood ASD	$403,739
NIH	Staib, Lawrence	Neuroimaging studies of connectivity in ASD	$337,540
NIH	Mooney, Richard	Optogenetic analysis of circuits for vocal recognition	$156,000
NIH	Schaaf, Roseann	Physiological and behavioral characterization of sensory dysfunction in autism	$77,250
NIH	Rakison, David	Precursors of theory of mind in young children with autism	$79,227
NIH	Rowan, Magali	Regulation of activity-dependent ProSAp2 synaptic dynamics	$41,176
NIH	Young, Walter	Regulation of gene expression in the brain	$2,125,882
NIH	Cuccaro, Michael	Restricted and repetitive behaviors in young children with autism	$23,131
NIH	Goldberg, Melissa	Reward system in autism	$181,125
NIH	Kronengold, Jack	Slick and slack heteromers in neuronal excitability	$53,354
NIH	Bellugi, Ursula	Social and affective components of communication	$152,186
NIH	Just, Marcel	Systems connectivity and brain activation: Imaging studies of language and perception	$94,022
NIH	Just, Marcel	Systems connectivity and brain activation: Imaging studies of language and perception	$444,021
NIH	Bennetto, Loisa	Taste, smell, and feeding behavior in autism: A quantitative traits study	$151,884

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NIH	Martin, Alex	The cognitive neuroscience of autism spectrum disorders	$1,335,493
NIH	Samuel, Arthur	The development and redevelopment of lexical and sublexical representations	$380,273
NIH	Oakes, Lisa	The development of object representation in infancy	$248,095
NIH	Schultz, Robert	The fusiform and amygalda in the pathobiology of autism	$311,951
NIH	Bookheimer, Susan	The imaging core	$326,381
NIH	Lainhart, Janet	The microstructural basis of abnormal connectivity in autism	$348,980
NIH	Vanduffel, Wim	The mirror neuron system in the monkey and its role in action understanding	$184,470
NIH	Puce, Aina	The neural basis of social cognition	$325,651
NIH	Dominick, Kelli	The neural substrates of repetitive behaviors in autism	$54,436
NIH	Fogel, Brent	The role of fox-1 in neurodevelopment and autistic spectrum disorder	$139,471
NIH	Corbett, Blythe	The role of the amygdala in autism	$152,144
NIH	Allman, Melissa	Time perception and timed performance in autism	$89,871
NIH	Adolphs, Ralph	Towards an endophenotype for amygdala dysfunction	$384,145
NIH	Polleux, Franck	Wiring the brain: From genetic to neuronal networks	$13,000
SF	Shiffrar, Maggie	Autism spectrum disorders and the visual analysis of human motion	$250,000
SF	Petersen, Steven	Brain circuitry in simplex autism	$187,500
SF	Saxe, Rebecca	Neural mechanisms for social cognition in autism spectrum disorders	$229,730
SF	Adolphs, Ralph	Testing neurological models of autism	$315,526
SF	Krauzlis, Richard	Testing the effects of cortical disconnection in non-human primates	$150,000

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
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Question 3: What caused this to happen and can this be prevented? $103,486,661

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. $11,852,549

Funder	Principal Investigator	Project Title	Funding
NIH	Iakoucheva, Lilia	A systems biology approach to unravel the underlying functional modules of ASD	$663,063
NIH	Vaccarino, Flora	Biological correlates of altered brain growth in autism	$1,011,793
NIH	Kim, Soo-Jeong	Genetic study of restricted repetitive behavior in autism spectrum disorders	$72,856
NIH	State, Matthew	Genomic profiling and functional mutation analysis in autism spectrum disorders	$1,183,908
NIH	Bookheimer, Susan	Neural and phenotypic correlates of autism risk genes	$545,057
NIH	Dolmetsch, Ricardo	Using induced pluripotent stem cells to identify cellular phenotypes of autism	$400,000
NIH	Gibbs, Richard	1/5: Elucidating the genetic architecture of autism by deep genomic sequencing	$2,000,000
NIH	Daly, Mark	2/5: Elucidating the genetic architecture of autism by deep genomic sequencing	$2,442,659
NIH	Buxbaum, Joseph	3/5: Elucidating the genetic architecture of autism by deep genomic sequencing	$571,568
NIH	Schellenberg, Gerard	4/5: Elucidating the genetic architecture of autism by deep genomic sequencing	$482,846
NIH	Sutcliffe, James	5/5: Elucidating the genetic architecture of autism by deep genomic sequencing	$2,478,799

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Question 3: What caused this to happen and can it be prevented?

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.			$4,844,321
Funder	**Principal Investigator**	**Project Title**	**Funding**
NIH	Geschwind, Daniel	A comprehensive approach to identification of autism susceptibility genes	$2,895,517
NIH	Wigler, Michael	Deep sequencing of autism candidate genes in 2000 families from the Simons Simple	$1,384,503
NIH	Allman, John	RNA-Seq studies of gene expression in cells and networks in FI and ACC in autism	$564,301
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.			$11,867,708
NIH	Fallin, Margaret	Environment, the perinatal epigenome, and risk for autism and related disorders	$1,509,000
NIH	Warren, Stephen	Epigenetic marks as peripheral biomarkers of autism	$2,198,844
NIH	Fallin, Margaret	Genome-wide environment interaction study for autism: The SEED study	$723,953
NIH	Walsh, Christopher	Human autism genetics and activity dependent gene activation	$2,474,114
NIH	Pericak-Vance, Margaret	Molecular and genetic epidemiology of autism	$1,211,372
NIH	Brown, Alan	Prenatal factors and risk of autism in a Finnish national birth cohort	$840,697
NIH	Behen, Michael	Structural and functional neural correlates of early postnatal deprivation	$148,768
NIH	Hertz-Picciotto, Irva	The CHARGE study: Childhood autism risks from genetics and the environment	$1,015,021
NIH	Goldstein, David	Whole-genome sequencing for rare highly penetrant gene variants in schizophrenia	$1,671,247

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Question 3: What caused this to happen and can it be prevented?

Funder	Principal Investigator	Project Title	Funding
SF	Kim, Young Shin	Genetics and gene-environment interactions in a Korean epidemiological sample of autism	$74,692
3.S.D Enhance existing case-control studies to enroll racially and ethnically diverse populations affected by ASD by 2011. IACC Recommended Budget: $3,300,000 over 5 years.			$103,827
NIH	Martinez, Irene	A model for inclusion of minorities in genetic research	$30,000
NIH	Lajonchere, Clara	A model for inclusion of minorities in genetic research (supplement)	$32,846
NIH	Lajonchere, Clara	A model for inclusion of minorities in genetic research	$40,981
NEW! *3.S.E 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. IACC Recommended Budget: $8,000,000 over 2 years.*			$1,739,200
AS	Davis, Robert	Autistic regression	$16,258
AS	Van De Water, Judy	Etiology of autism risk involving MET gene and the environment	$219,700
AS	Van De Water, Judy	Evaluation of the immune and physiologic response in children with autism following immune challenge	$327,972
AS	Molloy, Cynthia	Genome-wide association study of autism characterized by developmental regression	$127,458
AS	Vandewater, Judy	Immunobiology in autism	$32,000
AS	Ponzio, Nicholas	Influence of maternal cytokines during pregnancy on effector and regulatory T helper cells as etiological factors in autism	$127,499

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Funder	Principal Investigator	Project Title	Funding
AS	Ponzio, Nicholas	Influence of maternal cytokines on activation of the innate immune system as a factor in the development of autism	$0*
AS	Ponzio, Nicholas	Influence of the maternal immune response on the development of autism	$127,499
AS	Lebelle, Janel	Interactions of environment and molecular pathways on brain overgrowth in autism: Maternal inflammation and the PI3/AKT pathway	$211,200
AS	Noble, Mark	Vulnerability phenotypes and susceptibility to environmental toxicants: From organism to mechanism	$0*
CDC	Kjaergaard, Soren	Aarhus University	$400,000
NIH	Anagnostou, Athanasius	Brain glutamate concentrations in autistic adolescents by MRS	$1,224
NIH	Eaton, William	Psychosis and autoimmune diseases in Denmark	$148,389
NEW!	*3.S.F 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. Estimated cost $56,000,000 over 2 years.*		$2,887,527
AS	Reichenberg, Avi	Assisted reproductive treatments and risk of autism	$60,000
AS	Ebstein, Richard	Effect of oxytocin receptor inhibitor (atosiban) during the perinatal period and prevalence of autism spectrum disorders	$131,871
AS	Rissman, Emile	Epigenetics, hormones and sex differences in autism incidence	$0*
AS	Carpenter, Ellen	Genetic and epigenetic interactions in a mouse model for autism	$60,000
AS	Kornblum, Harley	Molecular and environmental influences on autism pathophysiology	$127,500

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AS	Hammock, Bruce	Vitamin D status and autism spectrum disorder: Is there an association?	$85,961
CDC	Frank Destefano	Vaccine safety datalink thimerosol and autism study	$20,857
NIH	Davidson, Philip	Autism in a fish eating population	$172,491
NIH	Mcconnell, Rob	Investigating gene-environment interaction in autism: Air pollution x	$297,117
NIH	Croen, Lisa	Prenatal exposure to polyfluoroalkyl compounds in the EMA study	$272,062
NIH	Hertz-Picciotto, Irva	The CHARGE Study: Childhood autism risks from genetics and the environment (supplement)	$405,700
NIH	Hertz-Picciotto, Irva	The CHARGE Study: Childhood autism risks from genetics and the environment	$1,212,792
NIH	Dingfelder, Hilary	The impact of classroom climate on autism intervention fidelity and outcomes	$41,176
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.			$3,740,812
NIH	Newschaffer, Craig	Early Autism Risk Longitudinal Investigation (EARLI) network (supplement)	$1,111,301
NIH	Newschaffer, Craig	Early Autism Risk Longitudinal Investigation (EARLI) network	$2,629,511
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.			$44,705,496
AS	Lajonchere, Clara	Autism genetic resource exchange	$1,826,554
AS	Shih, Andy	Autism genome project	$4,894

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Funder	Principal Investigator	Project Title	Funding
AS	Collins, Christin	Gene expression profiling of autism spectrum disorders	$52,000
AS	Kumar, Ravinesh	Genomic imbalances in autism	$0*
AS	Santangelo, Susan	Investigation of genes involved in synaptic plasticity in Iranian families with ASD	$0*
AS	Bucan, Maja	Pathway-based genetic studies of autism spectrum disorder	$60,000
AS	Nelson, Stan; Constantino, John; Law, Paul	Pilot project to assess web-based family recruitment for autism genetics studies	$500,000
AS	Talebizadeh, Zohreh	Potential role of noncoding RNAs in autism	$59,989
AS	Ullian, Erik	Role of micro-RNAs in ASD affected circuit formation and function	$0*
AS	Scherer, Stephen	The impact of autism specific genomic variations on microrna gene expression profile	$43,850
AS	Gusella, James	The role of the neurexin 1 gene in susceptibility to autism	$0*
AS	Kunkel, Louis	Uncovering genetic mechanisms of ASD	$150,000
AS	Wang, Tao	Understanding glutamate signaling defects in autism spectrum disorders	$60,000
NIH	Piven, Joseph	A molecular genetic study of autism and related phenotypes in extended pedigrees	$483,824
NIH	Buxbaum, Joseph	Autism genome project	$2,044,857
NIH	Yang, Xiangdong	Basal ganglia circuitry and molecules in pathogenesis of motor stereotypy	$419,799
NIH	Brzustowicz, Linda	Behavioral and genetic biomarker development for autism and related disorders	$499,543
NIH	Lajonchere, Clara	Center for genomic and phenomic studies in autism	$1,482,665
NIH	Pericak-Vance, Margaret	Clinical and bioinformatics core	$39,796
NIH	Downey, Thomas	Computational tools to analyze SNP data from patients with mental illness	$243,011

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Funder	Principal Investigator	Project Title	Funding
NIH	Gilliam, Thomas	Core-genomics /bioinformatics-Alzheimer's disease and autism	$22,307
NIH	Gilliam, Thomas	Core-genomics /bioinformatics-Alzheimer's disease and autism	$114,028
NIH	Gregersen, Peter	Dense mapping of candidate regions linked to autistic disorder	$5,028
NIH	Sebat, Jonathan	Determining the genetic basis of autism by hi-resolution analysis of copy number	$351,639
NIH	Lasalle, Janine	Epigenetic etiologies of autism-spectrum disorders	$344,947
NIH	Walsh, Christopher	Finding autism genes by genomic copy number analysis	$574,507
NIH	Breedlove, Stephen	Fraternal birth order effects on behavior	$171,000
NIH	Gusella, James	Genes disrupted by balanced genomic rearrangements in autism spectrum disorders	$309,604
NIH	Wijsman, Ellen	Genetic contributions to endophenotypes of autism	$576,375
NIH	Kim, Soo-Jeong	Genetic dissection of restricted repetitive behavior (RRB)	$8,291
NIH	Morrow, Eric	Genetic investigation of cognitive development in autistic spectrum disorders	$184,248
NIH	Pericak-Vance, Margaret	Genetic studies in autism on chromosome 7	$17,887
NIH	Coon, Hilary	Genetics of autism intermediate phenotypes	$448,943
NIH	Millonig, James	Identification and functional assessment of autism susceptibility genes	$198,704
NIH	Brzustowicz, Linda	Identification and functional assessment of autism susceptibility genes	$414,257
NIH	Vieland, Veronica	Identification and functional assessment of autism susceptibility genes	$422,498
NIH	Zwick, Michael	Identifying autism susceptibility genes by high-throughput chip resequencing	$383,043
NIH	Stefansson, Kari	Isolation of Autism susceptibility genes	$593,350
NIH	Pericak-Vance, Margaret	Molecular analysis core	$17,853

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Funder	Principal Investigator	Project Title	Funding
NIH	Haines, Jonathan	Neurogenetics of candidate systems in autism	$23,730
NIH	Raab, Jennifer	Research center for study of gene structure and function	$299,668
NIH	Kunkel, Louis	RNA expression patterns in autism	$739,224
NIH	Auger, Anthony	Steroid receptors and brain sex differences	$301,301
NIH	Beaudet, Arthur	The role of the Rett gene, chromosome 15Q11-Q13, other genes, and epigenetics	$18,368
NIH	Sutcliffe, James	Unraveling the Genetic Etiology of Autism	$491,266
SF	State, Matthew	A genome-wide search for autism genes in the Simons Simplex Collection	$3,862,333
SF	Gusella, James	A recurrent genetic cause of autism	$400,000
SF	Weiss, Lauren	A sex-specific dissection of autism genetics	$75,000
SF	Zoghbi, Huda	Analysis of candidate genes derived from a protein interaction network in SSC samples	$987,318
SF	Levine, Arnold	Autism and SNPs in the IGF pathway	$112,500
SF	Allman, John	Autism and the insula: Genomic and neural circuits	$368,570
SF	Daly, Mark	Comprehensive follow-up of novel autism genetic discoveries	$289,026
SF	Warren, Stephen	Comprehensive genetic variation detection to assess the role of the X chromosome in autism	$1,019,797
SF	Wigler, Michael	Genetic basis of autism	$6,380,872
SF	Chess, Andrew	Genome-wide analyses of DNA methylation in autism	$400,000
SF	Eichler, Evan	Genomic hotspots of autism	$232,692
SF	Gingrich, Jay	Identification of aberrantly methylated genes in autism: the role of advanced paternal age	$499,780
SF	Monaco, Anthony	Identifying and understanding the action of autism susceptibility genes	$204,810

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SF	No PI Identified	Illumina, Inc.	$1,578,591
SF	Arking, Dan	Integrative genetic analysis of autistic brains	$200,000
SF	Walsh, Christopher	Recessive genes for autism and mental retardation	$293,376
SF	Mcknight, Steven	Relevance of Npas1/3 balance to autism and schizophrenia	$356,840
SF	Ramesh, Vijaya	Role of TSC/mTOR signaling pathway in autism and autism spectrum disorders	$172,825
SF	No PI Identified	Rutgers, The State University of New Jersey	$4,729,271
SF	Lord, Catherine	Simons Simplex Collection Site	$30,000
SF	Klin, Ami	Simons Simplex Collection Site	$112,500
SF	Geschwind, Daniel	Simons Simplex Collection Site	$150,500
SF	Walsh, Christopher	Simons Simplex Collection Site	$332,923
SF	Fombonne, Eric	Simons Simplex Collection Site	$379,000
SF	Sutcliffe, James	Simons Simplex Collection Site	$437,339
SF	Ledbetter, David	Simons Simplex Collection Site	$445,176
SF	Bernier, Raphael	Simons Simplex Collection Site	$461,365
SF	Kochel, Robin	Simons Simplex Collection Site	$487,500
SF	Miles, Judith	Simons Simplex Collection Site	$516,952
SF	Cook, Edwin	Simons Simplex Collection Site	$550,246
SF	Peterson, Bradley	Simons Simplex Collection Site	$654,489
SF	Cicero, Theodore	Simons Simplex Collection Site	$815,728

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Funder	Principal Investigator	Project Title	Funding
SF	Deutsch, Curtis	Simons Simplex Collection Site	$1,300,730
SF	Beaudet, Arthur	Studies of postmortem brain searching for epigenetic defects causing autism	$400,000
SF	Chakravarti, Aravinda	The role of contactin-associated protein-like 2 (CNTNAP2) and other novel genes in autism	$464,601
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.			$1,992,228
AS	Keller, Flavio	Analysis of developmental interactions between reelin haploinsufficiency, male sex, and mercury exposure	$92,582
AS	Jiang, Yong-Hui	Maternal supplementation of folic acid and function of autism gene synaptic protein SHANK3 in animal model	$109,450
CDC	Vogt, Robert	Immune biomarkers in serum and newborn dried blood spots	$125,000
NIH	Sharp, Frank	Gene expression and immune cell function in mothers of children with autism	$267,750
NIH	McAllister, A.	Maternal immune activation, cytokines, and the pathogenesis of autism	$378,570
NIH	Hertz-Picciotto, Irva	Project 1: Environmental epidemiology of autism	$213,876
NIH	Bearman, Peter	Social determinants of the autism epidemic	$805,000

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3.L.D 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.	$9,534,522

Funder	Principal Investigator	Project Title	Funding
AS	Sourander, Andre	Early developmental risk factors for autism in a national birth cohort	$59,457
AS	Santangelo, Susan	Maternal dietary factors and risk of ASDs	$32,000
AS	Ascherio, Alberto	Maternal risk factors for autism in the nurses health study II – pilot study	$0*
CDC	Croen, Lisa	Centers for autism and developmental disabilities research and epidemiology - 1	$1,386,677
CDC	Daniels, Julie	Centers for autism and developmental disabilities research and epidemiology - 2	$1,209,900
CDC	Fallin, Dani	Centers for autism and developmental disabilities research and epidemiology - 3	$1,937,600
CDC	Miller, Lisa	Centers for autism and developmental disabilities research and epidemiology - 4	$1,192,664
CDC	Pinto-Martin, Jennifer	Centers for autism and developmental disabilities research and epidemiology - 5	$1,565,617
CDC	Schendel, Diana; Schieve, Laura	Centers for autism and developmental disabilities research and epidemiology - 6	$868,924
CDC	Reed, Phillip	Centers for autism and developmental disabilities research and epidemiology - data coordinating center	$736,170
NIH	Rahbar, Mohammad	Epidemiological research on autism in Jamaica	$146,500
NIH	Vaccarino, Flora	Morphogenesis and Function of the cerebral cortex	$399,013

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3.O Not specific to any objective			$10,218,471
Funder	**Principal Investigator**	**Project Title**	**Funding**
AS	Lajonchere, Clara	Bioinformatics support for AGRE	$225,936
AS	Beaudet, Arthur	DNA methylation and other epigenetic studies of autism brain	$0*
AS	Plomin, Robert	Identical twins discordant for autism: Epigenetic (DNA methylation) biomarkers of non-shared environmental influences	$108,503
AS	Persico, Antonio	Identification and functional characterization of gene variants	$60,000
AS	Millen, Kathleen	Linking autism and congenital cerebellar malformations	$60,000
AS	Vaccarino, Flora	Neurogenic growth factors in autism	$0*
AS	Chambers, Christina	Teratology	$10,000
DoD	Finnell, Richard	Autism and folate deficiency	$0*
DoD	Feinberg, Andrew	Discordant monozygotic twins as a model for genetic-environmental interaction in autism	$692,832
DoD	Kaufmann, Walter	Discordant monozygotic twins as a model for genetic-environmental interaction in autism	$692,832
DoD	Millonig, James	Epigenetic regulation of the autism suspectibility gene, engrailed 2 (EN2)	$0*
DoD	Dewitt, Jamie	Immunopathogenesis in autism: Regulatory T cells and autoimmunity in neurodevelopment	$106,610
DoD	Lipton, Stuart	Interaction between MEF2 and MECP2 in the pathogenesis of autism spectrum disorders - 1	$0*
DoD	Nakanishi, Nobuki	Interaction between MEF2 and MECP2 in the pathogenesis of autism spectrum disorders -2	$0*
DoD	Bressler, Joseph	MeHG stimulates antiapoptotic signaling in stem cells	$120,750
DoD	Carson, Monica	Microglia as biosensors and effectors of neurodysfunction	$0*
DoD	Mccarthy, Margaret	Prostaglandins and brain development: A link between inflammation and autism	$0*

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002.37)

Question 3: What caused this to happen and can it be prevented?

Funder	Principal Investigator	Project Title	Funding
DoD	Sant'Angelo, Derek	The transcription factor PLZF: A possible genetic link between immune dysfunction and autism	$142,113
DoD	Wlodarczyk, Bogdan	Toxicant-induced autism and mitochondrial modulation of nuclear gene expression	$109,875
NIH	Jarstfer, Michael	Allosteric potentiators of the oxytocin system for the control of social motivati	$25,000
NIH	Hansen, Robin	Core B: Outreach and translation	$84,728
NIH	Hammock, Bruce	Core C: Analytical core	$97,270
NIH	Sharp, Frank	Core D: Molecular genomics core	$57,649
NIH	Beckett, Laurel	Core E: Statistical analysis core	$15,567
NIH	Lasalle, Janine	Epigenetic interaction of MECP2 and organic pollutants in neurodevelopment (supplement)	$67,208
NIH	Lasalle, Janine	Epigenetic interaction of MECP2 and organic pollutants in neurodevelopment	$432,523
NIH	Joseph, Jane	Functional neuroanatomy of developmental changes in face processing	$302,360
NIH	Kim, Soo-Jeong	Genetic dissection of restricted repetitive behavior (RRB)	$180,254
NIH	Kim, Young Shin	Genetic epidemiology of autism spectrum disorders	$178,175
NIH	Geschwind, Daniel	Genetics of language and social communication: Connecting genes to brain and cognition (supplement)	$55,592
NIH	Geschwind, Daniel	Genetics of language and social communication: Connecting genes to brain and cognition	$333,180
NIH	Cook, Edwin	Genetics of serotonin in autism: Neurochemical and clinical	$377,577
NIH	Hagerman, Randi	Genotype-phenotype relationships in Fragile X families	$541,900
NIH	Glatt, Stephen	Imaging autism biomarkers and risk genes	$201,934
NIH	Sikela, James	Investigation of DUF1220 domains in human brain function and disease	$367,008

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Question 3: What caused this to happen and can it be prevented?

Funder	Principal Investigator	Project Title	Funding
NIH	Rzhetsky, Andrey	Large-scale discovery of scientific hypotheses; Computation over expert opinions	$603,044
NIH	Blatt, Gene	Olivocerebellar circuitry in autism	$756,843
NIH	Pessah, Isaac	Project 3: Neurodevelopmental toxicology of autism	$136,181
NIH	State, Matthew	Rare variant genetics, contactin-related proteins and autism	$334,236
NIH	Herkenham, Miles	Studies of central nervous system functional anatomy	$1,340,580
NIH	Perkel, David	Synaptic processing in the basal ganglia	$392,444
NIH	Wynshaw-Boris, Anthony	Targeting genetic pathways for brain overgrowth in autism spectrum disorders	$371,478
NIH	Levitt, Pat	The MET signaling system, autism and gastrointestinal dysfunction	$292,923
NIH	Lasalle, Janine	The role of MeCP2 in Rett syndrome (supplement)	$34,417
NIH	Lasalle, Janine	The role of MeCP2 in Rett syndrome	$308,949

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Question 4: Which treatments and interventions will help? $59,739,694

4.S.A Support at least three randomized controlled trials that address co-occurring medical conditions associated with ASD by 2010. IACC Recommended Budget: $13,400,000 over 3 years.			$4,733,841
Funder	**Principal Investigator**	**Project Title**	**Funding**
ARI	Balzola, Frederico	Autistic enterocolitis/Crohn's	$0*
AS	Reaven, Judy	Cognitive-behavioral group treatment for anxiety symptoms in adolescents with high-functioning autism spectrum disorders	$100,000
AS	Glaze, Daniel	Treatment of sleep problems in children with autism spectrum disorder with melatonin: A double-blind, placebo-controlled study	$150,000
HRSA	Perrin, James M.	Autism Intervention Research Network on Physical Health (AIR-P network)	$3,997,824
NIH	Malow, Beth	Melatonin for sleep in children with autism: safety, tolerability, and dosing (supplement)	$140,616
NIH	Malow, Beth	Melatonin for sleep in children with autism: safety, tolerability, and dosing	$345,401
4.S.B Standardize and validate at least 20 model systems (e.g. cellular and/or animal) that replicate features of ASD and will allow identification of specific molecular targets or neural circuits amenable to existing or new interventions by 2012. IACC Recommended Budget: $75,000,000 over 5 years.			$19,565,072
AS	Restifo, Linda	A novel cell-based assay for autism research and drug discovery	$60,000
AS	Zador, Anthony	Analysis of cortical circuits related to ASD gene candidates	$127,500
AS	Powell, Craig	Animal models of autism: Pathogenesis and treatment	$100,000
AS	Robbins, Elissa	Caspr2 dysfunction in autism spectrum disorders	$28,000

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
AS	Young, Larry	Genomic resources for identifying genes regulating social behavior	$0*
AS	Mcdonald, Thomas	Modeling and pharmacologic treatment of autism spectrum disorders in drosophila	$0*
AS	Veenstra-Vanderweele, Jeremy	Mouse genetic model of a dysregulated serotonin transporter variant associated with autism	$60,000
AS	Malanga, C.J.	Neuropharmacology of motivation and reinforcement in mouse models of autistic spectrum disorders	$0*
AS	Lewis, Mark	The genetics of restricted, repetitive behavior: An inbred mouse model	$60,000
AS	Bangash, M. Ali	The role of SHANK3 in the etiology of autism spectrum disorder	$28,000
ASF	Charles, Rhonda	A preclinical model for determining the role of AVPR1A in autism spectrum disorders	$30,000
NIH	Joseph, Jane	A comparative developmental connectivity study of face processing	$267,046
NIH	Millonig, James	A mouse knock-in model for ENGRAILED 2 autism susceptibility	$152,667
NIH	Patterson, Paul	A non-human primate autism model based on maternal immune activation	$106,670
NIH	Crawley, Jacqueline	Animal models of neuropsychiatric disorders	$1,835,912
NIH	Parr, Lisa	Behavioral and neural processing of faces and expressions in nonhuman primates	$432,400
NIH	Parr, Lisa	Behavioral, physiological and neuroanatomical consequences of maternal separation	$43,907
NIH	Young, Larry	Central vasopressin receptors and affiliation	$32,902
NIH	Young, Larry	Central vasopressin receptors and affiliation	$363,959
NIH	Moy, Sheryl	Characterization of a novel mouse model of restricted repetitive behaviors	$184,844
NIH	Thomas, James	Characterization of the transcriptome in an emerging model for social behavior	$426,250
NIH	White, Stephanie	CNTNAP2 in a behavioral model of autism	$265,450

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
NIH	Young, Larry	Development of genomic resources for prairie voles	$158,400
NIH	Shah, Nirao	Dissecting the neural control of social attachment	$772,500
NIH	Worley, Paul	Dynamic regulation of SHANK3 and ASD	$300,000
NIH	Colecraft, Henry	Molecular determinants of L-type calcium channel gating	$402,500
NIH	Young, Larry	Neural mechanisms of social cognition and bonding	$43,907
NIH	Anderson, Matthew	Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	$303,625
NIH	Brodkin, Edward	Neurobiology of sociability in a mouse model system relevant to autism	$175,927
NIH	Brodkin, Edward	Neurobiology of sociability in a mouse model system relevant to autism	$354,375
NIH	Platt, Michael	Neurogenetic model of social behavior heterogeneity in autism spectrum disorders	$821,227
NIH	Hilliard, Austin	Neurogenomics in a model for procedural learning	$31,848
NIH	Powell, Craig	Novel genetic animal models of autism	$274,750
NIH	Amaral, David	Primate models of autism	$106,671
NIH	Fagiolini, Michela	Probing disrupted cortico-thalamic interactions in autism spectrum disorders	$518,375
NIH	Owen, Scott	Role of L-type calcium channels in hippocampal neuronal network activity	$32,191
NIH	Dougherty, Joseph	Serotonin, autism, and investigating cell types for CNS disorders	$90,000
NIH	Lin, Rick	Serotonin, corpus callosum, and autism	$303,250
NIH	Smith, Carolyn	Studies on protein synthesis and long-term adaptive responses in the CNS	$1,659,897
NIH	Chevere-Torres, Itzamarie	Synaptic plasticity, memory and social behavior	$50,054
NIH	Blanchard, Robert	The genetic control of social behavior in the mouse	$346,000

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
NIH	Blakely, Randy	Transgenic mouse model to address heterogeneity in autism spectrum disorders	$454,745
NIH	Young, Larry	Vasopressin receptors and social attachment	$121,500
SF	Heintz, Nathaniel	A proposal to define cells and circuits impacted in autism spectrum disorders	$162,544
SF	Levitt, Pat	Behavioral and physiological consequences of disrupted MET signaling	$400,000
SF	Parada, Luis	Dysregulation of PI3K/AKT in social interaction deficits and autism spectrum disorders with macrocephaly	$81,630
SF	Sudhof, Thomas	Function and dysfunction of neuroligins	$498,885
SF	Zipursky, Larry	Functional analysis of neurexin IV in drosophila	$57,210
SF	Fisher, Simon	Functional genomic dissection of language-related disorders	$78,585
SF	Gogos, Joseph	Genomic imbalances at the 22q11 locus and predisposition to autism	$400,000
SF	Vaccarino, Flora	Integrated approach to the neurobiology of autism spectrum disorders	$115,446
SF	Dawson, Ted	Investigation of the role of MET kinase in autism	$488,411
SF	Sheng, Morgan	Mice lacking SHANK postsynaptic scaffolds as an animal model of autism	$253,848
SF	Sur, Mriganka	Neural and cognitive mechanisms of autism	$1,500,000
SF	Kandel, Eric	Neurexin-neuroligin trans-synaptic interaction in learning and memory	$200,000
SF	Mills, Alea	Novel models to define the genetic basis of autism	$545,463
SF	Sabatini, Bernardo	Perturbed activity-dependent plasticity mechanisms in autism	$301,444
SF	Tsai, Li-Huei	Regulation of synaptogenesis by cyclin-dependent kinase 5	$325,889
SF	Reichardt, Louis	Role of a novel Wnt-Dvl-Dact-p120catenin pathway in autism spectrum disorders	$150,000

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
SF	Ehlers, Michael	Role of UBE3A in neocortical plasticity and function	$490,000
SF	Reichardt, Louis	Role of Wnt signaling in forebrain development, synaptic physiology, and mouse behavior	$70,041
SF	Feng, Guoping	Synaptic and circuitry mechanisms of repetitive behaviors in autism	$400,000
SF	Osten, Pavel	Systematic analysis of neural circuitry in mouse models of autism	$75,432
SF	Fishell, Gordon	The integration of interneurons into cortical microcircuits	$37,500
SF	Gaiano, Nicholas	The role of CNTNAP2 in embryonic neural stem cell regulation	$75,000
SF	Buxbaum, Joseph	The role of SHANK3 in autism spectrum disorders	$360,000
SF	Littleton, J. Troy	Using drosophila to model the synaptic function of the autism-linked NHE9	$75,000
SF	Dolmetsch, Ricardo	Using iPS cells to study genetically defined forms with autism	$100,000
SF	Sive, Hazel	Using zebrafish and chemical screening to define function of autism genes	$395,497
4.S.C Test safety and efficacy of at least five widely used interventions (e.g., nutrition, medications, assisted technologies, sensory integration, medical procedures) that have not been rigorously studied for use in ASD by 2012. IACC Recommended Budget: $27,800,000 over 5 years.			$2,939,350
ARI	Geier, Mark	A double-blind, randomized clinical trial of levocarnitine to treat autism spectrum disorders	$11,882
ARI	Mcclamroch, Margie	Double-blind, placebo-controlled, crossover study of gluthathione, vitamin C and cysteine in children with autism and behavior problems	$25,000
ARI	Adams, Jim	National randomized double-blind placebo controlled vitamin/mineral study	$30,000
ARI	Stubbs, Gene	Probiotics and vitamin D in ASD	$40,000

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Funder	Principal Investigator	Project Title	Funding
ARI	Stubbs, Gene	Probiotics and vitamin D in ASD	$40,000
AS	Carpenter, Laura	A randomized, double blind, placebo controlled study of fatty acid supplementation in autism	$116,071
AS	Warren, Lana	Acupressure and acupuncture as an intervention with children with autism	$90,826
AS	Tierney, Elaine	Double masked placebo controlled trial of cholesterol in hypocholesterolemic ASD	$100,000
AS	Hendren, Robert	Double-blind placebo controlled trial of subcutaneous methyl B12 on behavioral and metabolic measures in children with autism	$150,000
AS	Schaaf, Roseann	Effectiveness of sensory based strategies for improving adaptive behaviors in children with autism	$149,901
AS	Weiss, Patrice	Enhancing social communication for children with HFA	$37,829
AS	Le Couteur, Ann	Parents and professionals attitudes to dietary interventions in ASD (PADIA)	$109,658
AS	Narayanan, Shrikanth	Robotics and speech processing technology for the facilitation of social communication training in children with autism	$0*
AS	Bent, Stephen	Safety and efficacy of complementary and alternative medicine for autism spectrum disorders	$100,000
CARD	Granpeesheh, Doreen	Double blind placebo controlled evaluation of fluconazole	$15,134
DoD	Anagnostou, Evdokia	Intranasal oxytocin for the treatment of children and adolescents with autism spectrum disorders (ASD)	$805,791
NIH	Brady, Nancy	Communication success and AAC: A model of symbol acquisition	$174,060
NIH	Camarata, Stephen	Evaluation of sensory integration treatment in ASD	$336,344
NIH	Beaudet, Arthur	Folate rechallenge: A pilot study	$10,961
NIH	Reaven, Judy	Training outpatient clinicians to deliver cognitive behavior therapy to children	$212,376

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Funder	Principal Investigator	Project Title	Funding
NIH	Swedo, Susan	Treatment of autism spectrum disorders with a glutamate antagonist	$203,517
OAR	Weiss, Mary	Builiding tacting and joint attention skills with the use of ACS	$10,000
OAR	Sharp, William	Feeding problems in children with ASD: Impact of parent education in modifying aberrant eating habits	$10,000
OAR	Openden, Daniel	Measuring the effects of training parents to provide intervention via the Arizona telemedicine program	$20,000
OAR	Blakeley-Smith, Audrey	Peer-mediated intervention for elementary school students with ASD	$20,000
OAR	Blakeley-Smith, Audrey	Peer-mediated interventions for elementary school students with autism spectrum disorders	$30,000
OAR	Whalon, Kelly	The effects of a reciprocal questioning intervention on the reading comprehension and social communication of students with autism spectrum disorder	$30,000
OAR	Wood, Jeffrey	Transporting evidence-based practices from the academy to the community: School-based CBT for children with ASD	$30,000
OAR	Asaro-Saddler, Kristie	Writing instruction for children with autism spectrum disorders: A study of self-regulation and strategy use	$30,000
4.S.D Complete two multi-site randomized controlled trials of comprehensive early intervention that address core symptoms, family functioning and community involvement by 2013. IACC Recommended Budget: $16,700,000 over 5 years.			$7,286,371
CARD	Granpeesheh, Doreen	Comparison of high to low intensity behavioral intervention	$121,029
HRSA	Kasari, Connie	Autism Intervention Research Network on Behavioral Health (AIR-B network)	$2,000,000
HRSA	Landa, Rebecca	Parent-mediated vs. center-based intervention for toddlers with ASD: An RCT	$393,024

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
NIH	Rogers, Sally	A multi-site randomized study of intensive treatment for toddlers with autism	$2,968,118
NIH	Wetherby, Amy	1/2-Effects of parent-implemented intervention for toddlers with autism spectrum (supplement)	$175,000
NIH	Wetherby, Amy	1/2-Effects of parent-implemented intervention for toddlers with autism spectrum	$535,179
NIH	Lord, Catherine	2/2-Effects of parent-implemented intervention for toddlers with autism spectrum (supplement)	$175,000
NIH	Lord, Catherine	2/2-Effects of parent-implemented intervention for toddlers with autism spectrum	$919,021
NEW!	*4.S.E Convene a workshop to advance the understanding of clinical subtypes and treatment personalization (i.e. what are the core symptoms to target for treatment studies) by 2011. IACC Recommended Budget: $50,000.*		$0
No projects funded under this objective			–

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NEW!

4.S.F Launch five randomized controlled trials of interventions including biological signatures and other measures to predict response, and monitor quality of life and functional outcomes, in each of the following groups:

- *Five trials in infants and toddlers by 2013. IACC Recommended Budget: $30,000,000 over 5 years.*
- *Three randomized controlled trials of interventions for school-aged children and/or adolescents by 2013. IACC Recommended Budget: $18,000,000 over 5 years.*
- *Three trials for adults by 2014. IACC Recommended Budget: $18,000,000 over 5 years.*

$10,045,511

Funder	Principal Investigator	Project Title	Funding
AS	Carter, Alice	A multi-site clinical randomized trial of the hanen more than words intervention	$340,001
AS	Wong, Connie	A randomized controlled trial of two treatments for verbal communication	$0*
AS	Paul, Rhea	A sibling mediated imitation intervention for young children with autism	$28,000
AS	Kasari, Connie; Kaiser, Ann; Landa, Rebecca; Murphy, Susan	Developmental and augmented intervention for facilitating expressive language	$529,577
AS	Baranek, Grace	Early intervention for children screened positive for autism by the first year inventory	$199,984
AS	Wetherby, Amy	Effects of parent-implemented intervention for toddlers with autism spectrum	$254,242
AS	Bryson, Susan	Enhancing inter-subjectivity in infants at high-risk for autism	$0*
AS	Beidel, Deborah	Enhancing social functioning among adolescents with Asperger's syndrome and high functioning autism	$59,981

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002)

Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
AS	Wang, Ting; Soorya, Latha	Evaluating behavioral and neural effects of social skills intervention for school-age children with autism spectrum disorders	$60,000
AS	Wolfberg, Pamela	Integrated play groups: Promoting social communication and symbolic play with peers across settings in children with autism	$123,103
AS	Rogers, Sally	Intervention for infants at risk for autism	$127,500
AS	Estes, Annette	Intervention for infants at risk for autism	$0*
AS	Kasari, Connie	Joint attention intervention for caregivers and their children with autism	$0*
AS	Kasari, Connie	Promoting communication skills in toddlers at risk for autism	$0*
AS	Schertz, Hannah	Promoting early social-communicative competency in toddlers with autism	$314,114
AS	Penn, David	Social cognition and interaction training for adolescents with high functioning autism	$0*
ASF	Austin, Sarita	Altering motivational variables to treat stereotyped behavior	$30,000
Ed	No PI Identified	Comprehensive autism program using strategies for teaching based on autism research	$725,029
Ed	Mandell, David	Efficacy and sustainability of the star program	$758,928
Ed	No PI Identified	Improving social-communication, literacy, and adaptive behaviors for young children with autism spectrum disorders	$734,999
Ed	Strain, Philip	Leap - USA (using science-based approaches)	$459,425
NIH	Chugani, Diane	Early pharmacotherapy guided by biomarkers in autism	$100,000
NIH	Wang, A. Ting	Neural and behavioral outcomes of social skills groups in children with ASD	$287,798
NIH	Mcdougle, Christopher	Novel pharmacological strategies in autism	$305,254
NIH	Kasari, Connie	Optimizing social and communication outcomes for toddlers with autism (supplement)	$49,704

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Funder	Principal Investigator	Project Title	Funding
NIH	Kasari, Connie	Optimizing social and communication outcomes for toddlers with autism	$297,894
NIH	Mahoney, Gerald	Randomized control study relationship focused intervention young children ASD	$274,750
NIH	Estes, Annette	Risk and protective factors in the development of associated symptoms in autism	$171,867
NIH	Reiersen, Angela	The intersection of autism and ADHD	$155,319
NIH	Orlich, Felice	Treatment as usual and peer engagement in teens with high functioning autism	$397,852
NIH	Wood, Jeffrey	1/3 CBT for anxiety disorders in autism: Adapting treatment for adolescents	$221,667
NIH	Handen, Benjamin	1/3-Atomoxetine placebo and parent training in autism	$272,698
NIH	Kasari, Connie	1/3-Multisite RCT of early intervention for spoken communication in autism	$545,574
NIH	Storch, Eric	2/3 CBT for anxiety disorders in autism: Adapting treatment for adolescents	$186,823
NIH	Aman, Michael	2/3-Atomoxetine placebo and parent training in autism	$358,106
NIH	Smith, Tristram	2/3-Multisite RCT of early intervention for spoken communication in autism	$374,423
NIH	Ehrenreich, Jill	3/3 CBT for anxiety disorders in autism: Adapting treatment for adolescents	$31,331
NIH	Smith, Tristram	3/3-Atomoxetine placebo and parent training in autism	$277,20
NIH	Landa, Rebecca	3/3-Multisite RCT of early intervention for spoken communication in autism (supplement)	$387,624
NIH	Landa, Rebecca	3/3-Multisite RCT of early intervention for spoken communication in autism	$426,589
OAR	Hughes, Carolyn	High school inclusion program for students with autism spectrum disorders	$30,000
OAR	Gantman, Alexander	Social skills training for young adults with autism spectrum disorders	$30,000
SF	Bernier, Raphael	The mirror neuron system in children with autism	$118,156

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Question 4: Which treatments and interventions will help?

4.L.A Complete at least three randomized controlled trials on medications targeting core symptoms in people with ASD of all ages by 2014. IACC Recommended Budget: $22,200,000 over 5 years.			$1,198,146
Funder	**Principal Investigator**	**Project Title**	**Funding**
AS	Jones, Nancy	Clinical trials network	$121,843
ASF	Sidorov, Michael	Investigation of postnatal drug intervention's potential in rescuing the symptoms of Fragile X syndrome in adult mice	$30,000
NIH	Anagnostou, Athanasius	Intransal oxytocin in the treatment of autism	$2,202
NIH	Anagnostou, Athanasius	Oxytocin vs. placebo on response inhibition and face processing in autism	$1,712
NIH	Bartz, Jennifer	The effects of oxytocin on complex social cognition in autism spectrum disorders	$279,520
NIH	Owley, Thomas	The pharmacogenetics of treatment for insistence sameness in autism	$377,577
NIH	Mccracken, James	Understanding repetitive behavior in autism (supplement)	$55,094
NIH	Mccracken, James	Understanding repetitive behavior in autism	$330,198
4.L.B Develop interventions for siblings of people with ASD with the goal of reducing risk recurrence by at least 30% by 2014. IACC Recommended Budget: $6,700,000 over 5 years.			$132,263
CARD	Tarbox, Jonathan	Preventing autism via very early detection and intervention	$14,256
SF	Warren, Zachary	Executive functioning, theory of mind, and neurodevelopmental outcomes	$118,007

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NEW!

4.L.C Conduct at least one study to evaluate the safety and effectiveness of medications commonly used in the treatment of co-occurring conditions or specific behavioral issues in people with ASD by 2015. IACC Recommended Budget: $10,000,000 over 5 years.			$1,072,453
Funder	**Principal Investigator**	**Project Title**	**Funding**
AS	Arnold, L. Eugene	Neuronal nicotinic receptor modulation in the treatment of autism: A pilot trial of mecamylamine	$44,917
CARD	Olive, Melissa	Effects of follow-through during DTT on verbalizations	$11,231
NIH	Pearson, Deborah	ADHD symptoms in autism: Cognition, behavior, treatment	$271,086
NIH	Kolevzon, Alexander	Open label risperidone in children and adolescents with autistic disorder	$244
NIH	Hendren, Robert	Pharmacogenomics in autism treatment	$205,200
NIH	Stigler, Kimberly	Pharmacotherapy of pervasive developmental disorders	$184,259
NIH	Posey, David	Targeted pharmacologic interventions for autism	$355,516
4.O Not specific to any objective			$12,766,688
AS	Rapp, John	Altering motivational variables to treat stereotyped behavior	$79,475
AS	Truong, Khai	Autism and technology	$10,000
AS	Goodwin, Matthew	Autism theory and technology	$10,000
AS	Jones, Nancy	Autism treatment network	$2,938,394
AS	Laffey, James	Evaluating a 3D VLE for developing social competence	$84,997

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Funder	Principal Investigator	Project Title	Funding
AS	Keating, Thomas	Self-management of daily living skills: Development of cognitively accessible software for individuals with autism	$44,176
AS	Solomon, Olga	Technology and autism	$10,000
AS	Hayes, Gillian	Technology support for interactive and collaborative visual schedules	$36,032
AS	Sporn, Alexandra	Transcranial magnetic stimulation (RTMS) for evaluation and treatment of repetitive behavior in subjects with autism spectrum disorders	$17,161
AS	Schreibman, Laura	Translation of evidenced based treatment to classrooms	$12,500
AS	Hailpern, Joshua	Visualizing voice	$28,000
CARD	Granpeesheh, Doreen	Age and treatment intensity in behavioral intervention	$34,879
CARD	Kenzer, Amy	Assessing preference for reinforcers in children with autism	$29,684
CARD	Jonathan Tarbox	Behavioral Intervention for working memory in children with autism	$30,000
CARD	Granpeesheh, Doreen	Chart review of 38 cases of recovery from autism	$35,117
CARD	Evelyn Gould	Designing a test to detect the emergence of derived symmetry	$28,000
CARD	Tarbox, Jonathan	Establishing liquid medication administration compliance	$27,985
CARD	Tarbox, Jonathan	Identifying factors that predict response to intervention	$21,965
CARD	Granpeesheh, Doreen	Long-term follow-up of children with autism who recovered	$33,965
CARD	Tarbox, Jonathan	Teaching children to comprehend rules containing "if/then"	$38,994
CARD	Tarbox, Jonathan	Teaching children to identify causes of others' emotions	$20,687
CARD	Najdowski, Adel	Teaching children to identify others' preferences	$22,058

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Funder	Principal Investigator	Project Title	Funding
CARD	Bergstrom, Ryan	Teaching children with autism to seek help when lost	$25,000
CARD	Bergstrom, Ryan	Teaching stranger safety skills to children with autism	$25,000
CARD	Tarbox, Jonathan	Teaching theory of mind skills to children with ASD	$24,025
CARD	Olive, Melissa	Telemedicine approach to teaching pill-swallowing skills	$14,168
CARD	Michele Bishop	Training staff to conduct preference assessments during discrete trial training	$18,000
DoD	Pineda, Jaime	Improving synchronization and functional connectivity in autism spectrum disorders through plasticity-Induced rehabilitation training	$490,233
DoD	Allen, John	Novel strategies to manipulate UBE3A expression for the treatment of autism and Angelman syndrome	$111,000
HRSA	Hagner, David	Family centered transition planning for students with autism spectrum disorders	$393,024
HRSA	Feinberg, Emily	Supporting the well-being of families of young children with autism spectrum disorders	$393,019
HRSA	Hepburn, Susan	Tele-health delivery of a family-focused intervention to reduce anxiety in youth with autism spectrum disorders in rural Colorado	$393,024
HRSA	Foster, Edward	The effectiveness of special education services for children with autism: A national longitudinal study	$93,533
NIH	White, Susan	A cognitive-behavioral intervention for children with autism spectrum disorders	$134,668
NIH	Minshew, Nancy	Adapting cognitive enhancement therapy for ASD	$194,096
NIH	Diamond, Adele	Autism and the development of relational awareness	$618,557
NIH	Casanova, Manuel	Building a selective inhibitory control tone in autism: An rTMS study	$222,000
NIH	Schreibman, Laura	Clinical phenotype treatment response core	$205,498

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Question 4: Which treatments and interventions will help?

Funder	Principal Investigator	Project Title	Funding
NIH	Brady, Nancy	Communication success and AAC: A model of symbol acquisition	$347,412
NIH	Roberts, Edward	Design and synthesis of novel CNS-active oxytocin and vasopressin receptor ligands	$584,206
NIH	Carpenter, Randall	Development of mGluR5 antagonists to treat Fragile X syndrome and autism	$1,048,100
NIH	Carlin, Michael	Guiding visual attention to enhance discrimination learning	$145,437
NIH	Rogers, Sally	Initial investigation of prevention of ASD in Infants at risk	$263,510
NIH	Mandell, David	Interstate variation in healthcare utilization among children with ASD	$547,471
NIH	Kobak, Kenneth	Parenting your young child with autism: A web-based tutorial	$248,373
NIH	Solomon, Richard	Randomized controlled trial of the P.L.A.Y. project intervention for autism	$553,924
NIH	Bhat, Anjana	Robot child interactions as an intervention tool for children with autism	$204,403
NIH	Bartlett, Marian	Sensorimotor learning of facial expressions: A novel intervention for autism	$497,336
NIH	Tsao, Ling-Ling	Sibling-mediated social communicative intervention for children with autism spect	$71,700
NIH	Wilkinson, Krista	Stimulus structure enhancement of visual symbol detection in AAC	$150,714
NIH	Wilson, Mary	Theory of mind software for autism and other communication disorders	$949,376
NIH	Mundy, Peter	Virtual reality and augmented social training for autism	$205,812

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Question 5: Where can I turn for services? $8,412,258

	5.S.A Support two studies that assess how variations and access to services affect family functioning in diverse populations, including underserved populations, by 2012. IACC Recommended Budget: $1,000,000 over 3 years.			$671,946
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	NIH	Mandell, David	Interstate variation in healthcare utilization among children with ASD	$171,947
	NIH	Ruble, Lisa	Randomized study of training in autism	$499,999
New!	*5.S.B Conduct one study to examine how self-directed community-based services and supports impact children, youth, and adults with ASD across the spectrum by 2014. IACC Recommended Budget: $6,000,000 over 3 years.*			$446,339,340
	AS	Marshall, Pamela	AFFCMH therapeutic recreation in parks (TRIP) program	$25,000
	AS	Feeley, Kathleen	Support and recreation for children with autism and their siblings	$17,512
	AS	Wolf, Alisa	The autism education project	$24,770
	AS	Ferreyra, Katrina	TRIP for young adults with ASD	$23,306
	AS	Brown, Mary	YMCA of greater Kansas City challenger athletic program	$25,000
	NIH	Baker, Cynthia	Caring for caregivers: Supporting caregivers of people with autism spectrum disorder	$330,752

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Question 5: Where can I turn to for services?

NEW!	5.S.C *Implement and evaluate two models of policy and practice-level coordination among state and local agencies to provide integrated and comprehensive community-based supports and services that enhance access to services and supports, self-determination, economic self-sufficiency, and quality of life for people with ASD across the spectrum and their families, with at least one project aimed at the needs of transitioning youth by 2015. IACC Recommended Budget: $10,000,000 over 5 years.*	$0
	No projects funded under this objective	–
	5.L.A *Test four methods to improve dissemination, implementation, and sustainability of evidence-based interventions, services, and supports in diverse community settings by 2013. IACC Recommended Budget: $7,000,000 over 5 years.*	$5,772,488

Funder	Principal Investigator	Project Title	Funding
AS	Newschaffer, Craig	Ethics of communicating scientific findings on autism risk	$305,663
AS	Magyar, Caroline	Training rural providers in the assessment and treatment of emotional and behavior disorders in autism	$24,002
CARD	Granpeesheh, Doreen	Evaluation of e-learning for training behavioral therapists	$74,835
CARD	Granpeesheh, Doreen	Evaluation of web-based curriculum assessment and program design	$51,003
CDC	Wolf, Rebecca	Learn the signs. Act early. - Improving early detection and diagnosis through improving parental awareness of developmental milestones	$2,401,470
DoD	Ingersoll, Brooke	Development of an internet-based parent training intervention for children with ASD	$558,546
NIH	Mandell, David	A randomized trial of the STAR program for children with autism spectrum disorder	$651,214
NIH	Solomon, Olga	Autism in urban context: linking heterogeneity with health and service disparitie	$634,898

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Funder	Principal Investigator	Project Title	Funding
NIH	Hamad, Charles	Behavioral intervention in autism: Practitioner skills	$527,107
NIH	Lindgren, Scott	Behavioral treatment for autism in community settings using a telehealth network	$374,649
NIH	Brookman-Frazee, Lauren	Translating autism intervention for mental health services via knowledge exchange	$169,101
5.L.B Test the efficacy and cost-effectiveness of at least four evidence-based services and supports for people with ASD across the spectrum and of all ages living in community settings by 2015. IACC Recommended Budget: $16,700,000 over 5 years.			$103,722
AS	Solomon, Marjorie	A comprehensive orientation, integration, and socialization program for college students with ASD	$20,000
AS	Vining, Vickie	Day program transformation to foster employment for people with autism spectrum disorders	$25,000
AS	Huang, Ann	Improving quality of life through person-centered planning: A university-based transition program for young adults with ASDs	$25,000
AS	Murray-Johnson, Lisa	Safe signals: Teaching high functioning young adults with autism spectrum disorders about community safety behaviors	$24,978
AS	Grassle, Constance	The NSSA green team	$8,744
NEW! *5.L.C Evaluate new and existing pre-service and in-service training to increase skill levels in service providers, including direct support workers, parents and legal guardians, education staff, and public service workers to benefit the spectrum of people with ASD and promote interdisciplinary practice by 2015. IACC Recommended Budget: $8,000,000 over 5 years.*			$132,494
AS	Moroney, Covita	Autism training and education	$25,000

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Question 5: Where can I turn to for services?

Funder	Principal Investigator	Project Title	Funding
AS	Gould, Kathy	Illinois autism coaching network (IACN)	$24,856
AS	Levey, Rob	Peer-mediated social skills training	$8,940
AS	Yoo, J. Helen	Targeting the big three: Challenging behaviors, mealtime behaviors, and toileting	$23,732
AS	Brigham, Nicolette	TRIAD social skills program	$25,000
AS	Gaskell, Sheila	Year-round inclusion program	$24,966
5.O Not specific to any objective			$1,285,269
AS	Lorence, Debbie	Eastern Kentucky autism training project	$24,866
AS	Vanderbilt, Leo	Family services community grant	$6,950
AS	Kuhlthau, Karen	Quality of life for children with autism spectrum disorders and their parents	$150,000
HRSA	Erickson Warfield, Marji	Assessing a participant directed service system for low income children with ASD	$334,359
NIH	Carper, Ruth	Autism in the second half of the lifespan: Behavior, daily living, service needs	$270,312
NIH	Dykens, Elisabeth	Conventional vs. mindfulness intervention in parents of children with disabilities	$498,782

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2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002)

Question 6: What does the future hold, particularly for adults? $1,407,699

NEW!	6.S.A 🟡 *Launch at least two studies to assess and characterize variation in the quality of life for adults on the ASD spectrum as it relates to characteristics of the service delivery system (e.g., safety, integrated employment, post-secondary educational opportunities, community inclusion, self-determination, relationships, and access to health services and community-based services) and determine best practices by 2012. IACC Recommended Budget: $5,000,000 over 3 years.*	$20,000

Funder	Principal Investigator	Project Title	Funding
OAR	Shattuck, Paul	Transition to adulthood: Service utilization and determinants of functional outcomes	$20,000

NEW!	6.S.B 🔴 *Evaluate at least one model, at the state and local level, in which existing programs to assist people with disabilities (e.g., Social Security Administration, Rehabilitation Services Administration) meet the needs of transitioning youth and adults with ASD by 2013. IACC Recommended Budget: $5,000,000 over 3 years.*	$0
	No projects funded under this objective	–
NEW!	6.S.C 🔴 *Develop one method to identify adults across the ASD spectrum who may not be diagnosed, or are misdiagnosed, to support service linkage, better understand prevalence, track outcomes, with consideration of ethical issues (insurance, employment, stigma) by 2015. IACC Recommended Budget: $8,400,000 over 5 years.*	$0
	No projects funded under this objective	–

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Question 6: What does the future hold, particularly for adults?

NEW!	*6.S.D Conduct at least one study to measure and improve the quality of life-long supports being delivered in community settings to adults across the spectrum with ASD through provision of specialized training for direct care staff, parents, and legal guardians, including assessment and development of ASD-specific training, if necessary, by 2015. IACC Recommended Budget: $7,500,000 over 5 years.*			$0
	No projects funded under this objective			–
NEW!	*6.L.A Develop at least two individualized community-based interventions that improve quality of life or health outcomes for the spectrum of adults with ASD by 2015. IACC Recommended Budget: $12,900,000 over 5 years.*			$509,965
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	NIH	Strickland, Dorothy	JobTips: An Employment Preparation Program for Adolescents and Young Adults with	$499,965
	OAR	Wehman, Paul	Efficacy of community-based instruction and supported employment on the competitive employment outcomes on transition-age youth with autism	$10,000
NEW!	*6.L.B Conduct one study that builds on carefully characterized cohorts of children and youth with ASD to determine how interventions, services, and supports delivered during childhood impact adult health and quality of life outcomes by 2015. IACC Recommended Budget: $5,000,000 over 5 years.*			$718,290
	NIH	Lord, Catherine	Longitudinal studies of autism spectrum disorders: 2 to 23	$492,935
	NIH	Shattuck, Paul	Service transitions among youth with autism spectrum disorders	$225,355

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Question 6: What does the future hold, particularly for adults?

NEW!	*6.L.C Conduct comparative effectiveness research that includes a cost-effectiveness component to examine community-based interventions, services and supports to improve health outcomes and quality of life for adults on the ASD spectrum over age 21 by 2018. IACC Recommended Budget: $6,000,000 over 5 years.*	$0
	No projects funded under this objective	–
NEW!	*6.L.D Conduct implementation research to test the results from comparative effectiveness research in real-world settings including a cost-effectiveness component to improve health outcomes and quality of life for adults on the ASD spectrum over age 21 by 2023. IACC Recommended Budget: $4,000,000 over 5 years.*	$0
	No projects funded under this objective	–
	6.O Not specific to any objective	$159,444

Funder	Principal Investigator	Project Title	Funding
HRSA	Butterworth, John	Services and outcomes for transition age young adults with autism spectrum disorders: Secondary Analysis of the NLTS2 and RSA 911	$100,000
AS	Kelley, Elizabeth	Victimization, pragmatic language, and social and emotional competence in adolescents with ASD	$59,444

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Question 7: What other infrastructure and surveillance needs must be met? $15,134,092

7.A Conduct a needs assessment to determine how to merge or link administrative and/or surveillance databases that allow for tracking the involvement of people living with ASD in healthcare, education and social services by 2009 . IACC Recommended Budget: $520,000 over 1 year.			$0
No projects funded under this objective			–
7.B Conduct an annual "State of the States" assessment of existing state programs and supports for people and families living with ASD by 2009. IACC Recommended Budget: $300,000 each year.			$7,061
Funder	**Principal Investigator**	**Project Title**	**Funding**
CMS	No PI Identified	State of the States	$7,061
7.C Develop and have available to the research community means by which to merge or link databases that allow for tracking the involvement of people in ASD research by 2010. IACC Recommended Budget: $1,300,000 over 2 years.			$2,156,176
AS	Law, Paul	IAN	$1,320,000
NIH	Das, Amarendra	CRCNS: Ontology-based multi-scale integration of the autism phenome	$345,180
NIH	Lajonchere, Clara	Linking data sources from the Autism Genetic Resource Exchange (AGRE) with NDAR	$490,996

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Question 7: What other infrastructure and surveillance needs must be met?

	7.D Establish and maintain an international network of biobanks for the collection of brain, fibroblasts for pluripotent stem cells, and other tissue or biological material, by acquisition sites that use standardized protocols for phenotyping, collection, and regulated distribution of limited samples by 2011. This includes developing fibroblast repositories to produce pluripotent stem cells. Protocols should be put into place to expand the capacities of ongoing large-scale children's studies to collect and store additional biomaterials, promoting detection of biological signatures. IACC Recommended Budget for establishing biobanks by 2011: $10,500,000 over 2 years. IACC Recommended Budget for maintaining biobanks: $22,200,000 over 5 years.			$436,815
	AS	Lightfoot, Daniel	Autism tissue program	$428,223
	NIH	Treadwell-Deering, Diane	Simons Simplex Collection	$8,592
NEW!	*7.E Begin development of a web-based toolbox to assist researchers in effectively and responsibly disseminating their finding to the community, including people with ASD, their families, and health practitioners by 2011. IACC Recommended Budget: $400,000 over 2 years.*			$25,000
	NIH	Newschaffer, Craig	Ethics of communicating scientific findings on autism risk	$25,000
NEW!	*7.F Create funding mechanisms that encourage rapid replication studies of novel or critical findings by 2011.*			$0
	No projects funded under this objective			–

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Question 7: What other infrastructure and surveillance needs must be met?

NEW!	*7.G Develop a web-based tool which provides population estimates of ASD prevalence for states based on the most recent prevalence range and average identified by the ADDM Network by 2012. IACC Budget Recommendations: $200,000 over 2 years.*			$0
	No projects funded under this objective			–
NEW!	*7.H Create mechanisms to specifically support the contribution of data from 90 percent of newly initiated projects to the National Database for Autism Research (NDAR) and link NDAR with other existing data resources by 2012. IACC Recommended Budget: $6,800,000 over 2 years.*			$1,442,000
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	NIH	No PI Identified	National Database on Autism Research (NDAR)	$1,442,000
NEW!	*7.I Supplement existing ADDM Network sites to use population-based surveillance data to conduct at least 5 hypothesis-driven analyses evaluating factors that may contribute to changes in ASD prevalence by 2012. IACC Recommended Budget: $660,000 over 2 years.*			$6,415,815
	ASF	Maenner, Matthew	Phenotypic heterogeneity and early identification of ASD in the United States	$30,000
	CDC	Daniels, Julie	Autism and developmental disabilities monitoring network - 01	$349,926
	CDC	Giarelli, Ellen	Autism and developmental disabilities monitoring network - 02	$340,000
	CDC	Mulvihill, Beverly	Autism and developmental disabilities monitoring network - 03	$350,001
	CDC	Durkin, Maureen	Autism and developmental disabilities monitoring network - 04	$350,000

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CDC	Lee, Li-Ching	Autism and developmental disabilities monitoring network - 05	$390,000
CDC	Miller, Lisa	Autism and developmental disabilities monitoring network - 06	$380,000
CDC	Cunniff, Chris	Autism and developmental disabilities monitoring network - 07	$350,000
CDC	Charles, Jane	Autism and developmental disabilities monitoring network - 08	$350,000
CDC	Constantino, John	Autism and developmental disabilities monitoring network - 09	$340,001
CDC	Yale Kaiser, Marygrace	Autism and developmental disabilities monitoring network - 10	$350,000
CDC	Zaharodny, Walter	Autism and developmental disabilities monitoring network - 11	$400,000
CDC	Shultz, Eldon	Autism and developmental disabilities monitoring network - 12	$400,000
CDC	Zimmerman, Judith	Autism and developmental disabilities monitoring network - 13	$400,000
CDC	Van Naarden Braun, Kim; Rice, Cathy; Baio, Jon	Metropolitan Atlanta developmental disabilities surveillance program/autism and developmental disabilities monitoring network	$1,635,887
NEW!	*7.J Develop the personnel and technical infrastructure to assist states, territories, and other countries who request assistance describing and investigating potential changes in the prevalence of ASD and other developmental disabilities by 2013. IACC Recommended Budget: $1,650,000 over 3 years.*		$494,449
AS	Mukerji, Shaneel	A large scale, two phase study to estimate prevalence, and raise awareness, about autism spectrum conditions in India	$60,000
AS	Patel, Vikram	ARTI: The autism research and training initiative in India	$60,100
AS	Kauchali, Shuaib	KZN autism study	$0*

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AS	Bresnahan, Michaeline	Multi-registry analyses - data management core	$50,360
AS	Thorsen, Poul	Multi-registry analyses - Denmark	$113,607
AS	Sourander, Andre	Multi-registry analyses - Finland	$29,700
AS	Gross, Raz	Multi-registry analyses - Israel	$29,700
AS	Stoltenberg, Camilla	Multi-registry analyses - Norway	$31,583
AS	Hultman, Christina	Multi-registry analyses - Sweden	$29,700
AS	Leonard, Helen	Multi-registry analyses - West Australia	$29,700
AS	Kim, Young Shin	Prospective examination of 6-year cumulative incidence of ASDs: A total population study	$59,999
NEW!	*7.K Encourage Programs And Funding Mechanisms That Expand The Research Workforce, Enhance Interdisciplinary Research Training, And Recruit Early Career Scientists Into The ASD Field By 2013. IACC Recommended Budget: $5,000,000 over 3 Years.*		$2,457,472
NIH	Levitt, Pat	Autism research program	$688,500
NIH	Zador, Anthony	Cold spring harbor laboratory faculty recruitment in developmental neurobiology	$719,000
NIH	Rogers, Sally	Interdisciplinary training for autism researchers	$342,831
NIH	Rogers, Sally	International Meeting for Autism Research (IMFAR)	$48,550
NIH	Geschwind, Daniel	Providing core support for junior faculty for translational research in ASD	$658,591

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NEW!	*7.L Expand the number of ADDM sites in order to conduct ASD surveillance in younger and older age groups; conduct complementary direct screening to inform completeness of ongoing surveillance; and expand efforts to include autism subtypes by 2015. IACC Recommended Budget: $16,200,000 over 5 years.*			$699,304
	Funder	**Principal Investigator**	**Project Title**	**Funding**
	CDC	Windham, Gayle	Early ASD surveillance - 1	$349,567
	CDC	Weatherby, Amy	Early ASD surveillance - 2	$349,737
NEW!	*7.M Support 10 "Promising Practices" papers that describe innovative and successful services and supports being implemented in communities that benefit the full spectrum of people with ASD, which can be replicated in other communities by 2015. IACC Recommended Budget: $75,000 over 5 years.*			$0
	No projects funded under this objective			–
	7.O Not specific to any objective			$1,000,000
	NIH	Doehring, Peter	Developing a community-based ASD research registry	$500,000
	NIH	Lajonchere, Clara	Disseminating scientific information on autism to the Latino community	$500,000

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Other –Not specific to Strategic Plan questions

O. Not specific to objectives			$20,835,397
Funder	**Principal Investigator**	**Project Title**	**Funding**
AS	Colamarino, Sophia	Innovative technology for autism	$7,616
Ed	Odom, Samual	Comparison of two comprehensive treatment models for preschool-aged children with autism spectrum disorders and their families	$967,343
Ed	No PI Identified	Developing a 3D-based virtual learning environment for use in schools to enhance the social competence of youth with autism spectrum disorder	$492,790
Ed	No PI Identified	Developing a school-based social competence intervention (SCI)	$375,878
Ed	Volker, Martin	Development of an intervention to enhance the social competencies of children with Asperger's/high functioning autism spectrum disorders	$430,225
Ed	Camarata, Steven	Related services intervention for expressive and receptive language skills in autism spectrum disorder and in cognitive impairment	$301,995
Ed	Watson, Linda	Social communication and symbolic play intervention for preschoolers with autism	$574,966
Ed	Stahmer, Aubyn	Translating pivotal response training into classroom environments	$495,451
NIH	Piven, Joseph	Administrative core	$512,062
NIH	Reznick, James	Behavioral measurement core	$512,058
NIH	Terrace, Herbert	Cognitive mechanisms of serially organized behavior	$306,785
NIH	Levine, Minna	Comprehensive collection, charting, and communication system	$249,940
NIH	Dykens, Elisabeth	CORE A: Administrative services (supplement)	$22,897
NIH	Dykens, Elisabeth	CORE A: Administrative services	$248,162
NIH	Dykens, Elisabeth	CORE E: Participant recruitment and assessment services (supplement)	$25,956

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NIH	Dykens, Elisabeth	CORE E: Participant recruitment and assessment services	$281,311
NIH	Dukes, Kimberly	CPEA data coordinating center	$82,081
NIH	Gibbons, Robert	Data and statistics core	$377,577
NIH	Abbott, Robert	Data management/statistical core	$28
NIH	Jenkins, Andrew	GABA(A) receptor modulation via the beta subunit	$228,787
NIH	Mcneilly, Lemmietta	Global solutions in research and clinical practice in communication sciences and	$30,000
NIH	Abbeduto, Leonard	Interdisciplinary training conference in developmental disabilities	$20,000
NIH	Munir, Kerim	International mental health/developmental disabilities research training program	$188,000
NIH	Loftus, Geoffrey	Memory for visual material	$208,711
NIH	Schulte, Marvin	Novel, subtype selective potentiators of nicotinic acetycholine receptors	$335,231
NIH	Nakamura, Richard	Office of the scientific director	$4,040,811
NIH	Lieh-Lai, Mary	Pediatric pharmacology research unit	$243,183
NIH	Cicchetti, Domenick	Statistics and research design core	$286,888
NIH	Minshew, Nancy	Subject assessment and recruitment core	$192,177
NIH	Minshew, Nancy	Subject assessment and recruitment core	$907,560
NIH	Fleming, Richard	Using CBPR to design and pilot a physical activity program for youth with ASB	$213,706
NIH	Tarr, Michael	Using functional physiology to uncover the fundamental principles of visual corte	$323,000
SARRC	Openden, Daniel	Desensitization techniques for difficult behaviors	$0*
SARRC	Openden, Daniel	Remote parent training project	$30,000

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Other –Not specific to Strategic Plan questions

Funder	Principal Investigator	Project Title	Funding
SF	International Society For Autism Research	IMFAR09	$50,000
SF	Sur, Mriganka	Infrastructure support for autism research at MIT	$1,500,000
SF	Atwood, Christopher	Keystone symposia on molecular and cellular biology	$25,000
SF	Desimone, Robert	MEG scanner at Martinos Imaging Center, McGovern institute	$250,000
SF	No PI Identified	Mindspec, Inc.	$619,200
SF	No PI Identified	Prometheus Research LLC	$4,878,022

Data Includes 2009 funding from Federal and private funders of ASD research (light blue) and 2009 NIH ARRA funding (yellow). Items marked “supplement” are funding supplements to existing NIH grants.

Current project and funding status for each question objective is indicated within the table by colored “dots” next to the objective. Any objective colored green has greater than or equal to the number of recommended projects and greater than or equal to the recommended funding; any objective colored yellow has some degree of funding or some amount of projects, but not equal to the amount recommended; while any objective colored red has no funding and no current projects.

Objectives labeled "New!" are either entirely new additions to the 2010 Strategic Plan or significantly modified objectives from the 2009 Strategic Plan. Objectives from the 2009 Strategic Plan that did not change or that have been slightly modified for clarification purposes in the 2010 Strategic Plan are unmarked.

*Projects with zero dollars assigned include those that received all of their funding in the first year while continuing performance in subsequent year(s). This includes one-year projects that received their funding in one fiscal year while continuing performance into a second fiscal year.

A table with the acronyms and titles of the funding organizations can be found at the end of the document. Some project titles were automatically truncated during submission.

2009 IACC Strategic Plan for Autism Spectrum Disorder Research
Autism Research Funding 2009
(Total $316,106,002.37)

Abbreviation Key for Agencies and Organizations Funding ASD Research in 2009

ARI	Autism Research Institute
AS	Autism Speaks
ASF	Autism Science Foundation
CARD	Center for Autism and Related Disorders
CDC	Centers for Disease Control and Prevention
CMS	Centers for Medicare and Medicaid Services
DoD	Department of Defense
Ed	Department of Education
HRSA	Health Resource and Services Administration
NIH	National Institutes of Health
OAR	Organization of Autism Research
SARRC	Southwest Autism Research and Resource Center
SF	The Simons Foundation