

# 2012 Portfolio Analysis Projects

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

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## QUESTION 4: WHICH TREATMENTS AND INTERVENTIONS WILL HELP?

### **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.*

Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Anxiety treatment for children with autism and intellectual disability</a>	Daniel, John	University of California, Los Angeles	\$26,040	Autism Speaks
<a href="#">Autism Intervention Research Network on Physical Health (AIR-P network)</a>	Perrin, James	Massachusetts General Hospital	\$2,079,996	Health Resources and Services Administration
<a href="#">Treatment of children with ASD and epileptiform EEG with divalproex sodium</a>	Spence, Sarah	Boston Children's Hospital	\$68,088	Simons Foundation

### **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.*

Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Effects of chronic intranasal oxytocin</a>	Bales, Karen	University of California, Davis	\$568,507	National Institutes of Health

<a href="#">Synaptic pathophysiology of 16p11.2 model mice</a>	Bear, Mark	Massachusetts Institute of Technology	\$125,000	National Institutes of Health
<a href="#">Development of a high-content neuronal assay to screen therapeutics for the treatment of cognitive dysfunction in autism spectrum disorders</a>	Bear, Mark	Massachusetts Institute of Technology	\$0.00	Department of Defense
<a href="#">Role of cadherin-8 in the assembly of prefrontal cortical circuits</a>	Benson, Deanna	Mount Sinai School of Medicine	\$155,940	Simons Foundation
<a href="#">Modeling the serotonin contribution to autism spectrum disorders</a>	Blakely, Randy	Vanderbilt University Medical Center	\$236,532	National Institutes of Health
<a href="#">The genetic control of social behavior in the mouse</a>	Blanchard, Robert	University of Hawai'i at Manoa	\$342,540	National Institutes of Health
<a href="#">Identifying high-impact therapeutic targets for autism spectrum disorders using rat models</a>	Buxbaum, Joseph	Mount Sinai School of Medicine	\$137,173	Autism Speaks
<a href="#">Identifying therapeutic targets for autism using Shank3-deficient mice (supplement)</a>	Buxbaum, Joseph	Mount Sinai School of Medicine	\$121,077	National Institutes of Health
<a href="#">Identifying therapeutic targets for autism using SHANK3-deficient mice</a>	Buxbaum, Joseph	Mount Sinai School of Medicine	\$484,667	National Institutes of Health

<a href="#">The role of SHANK3 in autism spectrum disorders</a>	Buxbaum, Joseph	Mount Sinai School of Medicine	\$0	Simons Foundation
<a href="#">Animal models of neuropsychiatric disorders</a>	Crawley, Jacqueline	National Institutes of Health	\$974,415	National Institutes of Health
<a href="#">16p11.2 deletion mice: autism-relevant phenotypes and treatment discovery</a>	Crawley, Jacqueline	University of California, Davis	\$200,000	Simons Foundation
<a href="#">Establishing next-generation tools for quantitative behavioral phenotyping</a>	Datta, Sandeep	Harvard Medical School	\$60,000	Simons Foundation
<a href="#">Using induced pluripotent stem cells to identify cellular phenotypes of autism</a>	Dolmetsch, Ricardo	Stanford University	\$792,000	National Institutes of Health
<a href="#">16p11.2 deletion mice: Autism-relevant phenotypes and treatment discovery</a>	Dolmetsch, Ricardo	Stanford University	\$200,000	Simons Foundation
<a href="#">Serotonin, autism, and investigating cell types for CNS disorders</a>	Dougherty, Joseph	Washington University in St. Louis	\$246,794	National Institutes of Health
<a href="#">Patient iPS cells with copy number variations to model neuropsychiatric disorders</a>	Ellis, James	The Hospital for Sick Children	\$336,050	National Institutes of Health
<a href="#">Dissecting the circuitry basis of autistic-like behaviors in mice</a>	Feng, Guoping	Massachusetts Institute of Technology	\$350,000	Simons Foundation

<a href="#">Synaptic and circuitry mechanisms of repetitive behaviors in autism</a>	Feng, Guoping	Massachusetts Institute of Technology	\$47,041	Simons Foundation
<a href="#">Characterization of synaptic and neural circuitry dysfunction underlying ASD-like behaviors using a novel genetic mouse model</a>	Fu, Zhanyan	Duke University	\$0	Brain & Behavior Research Foundation
<a href="#">Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells</a>	Gage, Fred	Salk Institute for Biological Studies	\$377,663	Department of Defense - Autism Research Program
<a href="#">Role of Caspr2 (CNTNAP2) in brain circuits - Project 2</a>	Geschwind, Daniel	University of California, Los Angeles	\$79,584	Simons Foundation
<a href="#">Genomic imbalances at the 22q11 locus and predisposition to autism</a>	Gogos, Joseph	Columbia University	\$0	Simons Foundation
<a href="#">OCT blockade to restore sociability in 5-HT transporter knock-out mice</a>	Gould, Georgianna	University of Texas Health Science Center at San Antonio	\$74,250	National Institutes of Health
<a href="#">Novel therapeutic targets to treat social behavior deficits in autism and related disorders</a>	Gould, Georgianna	University of Texas Health Science Center at San Antonio	\$0	Department of Defense - Autism Research Program
<a href="#">Exploring the neuronal phenotype of autism spectrum disorders using induced pluripotent stem cells</a>	Hallmayer, Joachim; Dolmetsch, Ricardo	Stanford University	\$366,529	National Institutes of Health

<a href="#">Role of astrocytic glutamate transporter GLT1 in fragile X</a>	Higashimori, Haruki	Tufts University	\$40,000	Autism Science Foundation
<a href="#">Functional analysis of rare variants in genes associated with autism</a>	Hoffman, Ellen	Yale University	\$146,625	National Institutes of Health
<a href="#">The role of glutamate receptor interacting proteins in autism</a>	Huganir, Richard	Johns Hopkins University School of Medicine	\$312,500	Simons Foundation
<a href="#">Cellular and molecular pathways of cortical afferentation in autism spectrum disorders</a>	Jabaudon, Denis	University of Geneva	\$0	Brain & Behavior Research Foundation
<a href="#">Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes</a>	Jarstfer, Michael	University of North Carolina at Chapel Hill	\$0	Department of Defense
<a href="#">Functional study of synaptic scaffold protein SHANK3 and autism mouse model</a>	Jiang, Yong-Hui	Duke University	\$150,000.00	Autism Speaks
<a href="#">Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X</a>	Jongens, Thomas	University of Pennsylvania	\$0	Department of Defense - Autism Research Program
<a href="#">Transgenic and knockout approaches to study protocadherin function</a>	Jontes, James	The Ohio State University	\$228,750	National Institutes of Health

<a href="#">Investigating the effects of chromosome 22q11.2 deletions</a>	Karayiorgou, Maria	Columbia University	\$300,000	Simons Foundation
<a href="#">Understanding copy number variants associated with autism</a>	Katsanis, Nicholas	Duke University Medical Center	\$125,000	Simons Foundation
<a href="#">Control of synaptic protein synthesis in the pathogenesis and therapy of autism</a>	Kelleher, Raymond	Massachusetts General Hospital	\$294,937	Simons Foundation
<a href="#">Animal model of speech sound processing in autism</a>	Kilgard, Michael	University of Texas at Dallas	\$283,249	National Institutes of Health
<a href="#">Impact of an autism associated mutation in DACT1 on brain development and behavior</a>	Kivimae, Saul	University of California, San Francisco	\$45,000	Brain & Behavior Research Foundation
<a href="#">Developing a new model system to study mechanisms of attention control</a>	Knudsen, Eric	Stanford University	\$0	Simons Foundation
<a href="#">Shank3 mutant characterization in vivo</a>	Kouser, Mehreen	University of Texas Southwestern Medical Center	\$0	Autism Speaks
<a href="#">Behavioral and physiological consequences of disrupted Met signaling</a>	Levitt, Pat	University of Southern California	\$400,000	Simons Foundation

<a href="#">Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism</a>	Li, Xiaohong	New York State Institute for Basic Research in Developmental Disabilities	\$0	Simons Foundation
<a href="#">Investigating the role of CNTNAP2 gene in vocal learning in mutant songbirds</a>	Lois, Carlos	University of Massachusetts Medical School	\$249,063	National Institutes of Health
<a href="#">Insight into MeCP2 function raises therapeutic possibilities for Rett syndrome</a>	Lomvardas, Stavros	University of California, San Francisco	\$290,087	National Institutes of Health
<a href="#">Autism iPSCs for studying function and dysfunction in human neural development</a>	Loring, Jeanne	The Scripps Research Institute	\$460,152	National Institutes of Health
<a href="#">Role of Caspr2 (CNTNAP2) in brain circuits - Project 1</a>	Marin, Oscar	Universidad Miguel Hernandez	\$79,525	Simons Foundation
<a href="#">A probiotic therapy for autism</a>	Mazmanian, Sarkis	California Institute of Technology	\$62,500	Simons Foundation
<a href="#">Perinatal choline supplementation as a treatment for autism</a>	Mellott, Tiffany	Boston University	\$62,500	Simons Foundation
<a href="#">16p11.2: defining the gene(s) responsible</a>	Mills, Alea	Cold Spring Harbor Laboratory	\$350,000	Simons Foundation
<a href="#">Deficits in tonic inhibition and the pathology of autism spectrum disorders</a>	Moss, Stephen	Tufts University	\$156,250	Simons Foundation



<a href="#">Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes</a>	Moy, Sheryl	University of North Carolina at Chapel Hill	\$0	Department of Defense
<a href="#">Evaluating hyperserotonemia as a biomarker of sensory dysfunction in autism spectrum disorder</a>	Muller, Christopher	Vanderbilt University	\$28,600	Autism Speaks
<a href="#">PsychoGenics Inc.</a>	No PI listed	PsychoGenics Inc.	\$147,925	Simons Foundation
<a href="#">A mouse model for human chromosome 7q11.23 duplication syndrome</a>	Osborne, Lucy	University of Toronto	\$0	Simons Foundation
<a href="#">Training in translational social neuroscience</a>	Parr, Lisa	Emory University	\$98,163	National Institutes of Health
<a href="#">Integrative system biology of iPSC-induced neurons for identifying novel drug targets</a>	Pati, Soumya	Baylor College of Medicine	\$55,200	Autism Speaks
<a href="#">Novel probiotic therapies for autism</a>	Patterson, Paul	California Institute of Technology	\$0	Department of Defense
<a href="#">Rat knockout models of ASD</a>	Paylor, Rich	Baylor College of Medicine	\$100,441	Autism Speaks
<a href="#">Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes</a>	Pedersen, Cort	University of North Carolina at Chapel Hill	\$0	Department of Defense

<a href="#">Role of Caspr2 (CNTNAP2) in brain circuits- Core</a>	Peles, Elior	Weizmann Institute of Science	\$89,999	Simons Foundation
<a href="#">Mechanism and treatment of ASD related behavior in the Cntnap2 knockout mouse model</a>	Penagarikano, Olga	University of California, Los Angeles	\$58,000	Autism Speaks
<a href="#">Small-molecule compounds for treating autism spectrum disorders</a>	Philpot, Ben	The University of North Carolina at Chapel Hill	\$350,000	Simons Foundation
<a href="#">Role of UBE3A in neocortical plasticity and function</a>	Philpot, Ben	University of North Carolina at Chapel Hill	\$77,686	Simons Foundation
<a href="#">Novel genetic models of autism (supplement)</a>	Powell, Craig	University of Texas Southwestern Medical Center	\$99,773	National Institutes of Health
<a href="#">Novel genetic animal models of autism</a>	Powell, Craig	University of Texas Southwestern Medical Center	\$337,875	National Institutes of Health
<a href="#">Neurexin function in vivo: Implications for autism and mental retardation</a>	Powell, Craig	University of Texas Southwestern Medical Center	\$388,575	National Institutes of Health
<a href="#">Striatal synaptic abnormalities in models of autism</a>	Powell, Craig	University of Texas Southwestern Medical Center	\$397,396	National Institutes of Health

<a href="#"><u>Temporally controlled genetic rescue of Shank3 autism model</u></a>	Powell, Craig	University of Texas Southwestern Medical Center	\$60,000	Autism Speaks
<a href="#"><u>Mechanisms of stress-enhanced aversive conditioning</u></a>	Radulovic, Jelena	Northwestern University	\$381,250	National Institutes of Health
<a href="#"><u>Cerebellar signaling in mouse models of autism</u></a>	Raman, Indira	Northwestern University	\$125,000	Simons Foundation
<a href="#"><u>Role of a novel Wnt pathway in autism spectrum disorders</u></a>	Reichardt, Louis	University of California, San Francisco	\$300,000	Simons Foundation
<a href="#"><u>Tooth pulp as a source for neuronal precursor cells to study neurogenetic disorders</u></a>	Reiter, Lawrence	University of Tennessee Health Science Center	\$187,344	National Institutes of Health
<a href="#"><u>Studies of pediatrics patients with genetic and metabolic disorders</u></a>	Rennert, Owen	National Institutes of Health	\$1,667,480	National Institutes of Health
<a href="#"><u>Adverse prenatal environment and altered social and anxiety-related behaviors</u></a>	Reyes, Teresa	University of Pennsylvania	\$45,000	Brain & Behavior Research Foundation
<a href="#"><u>The genetic and neuroanatomical origin of social behavior</u></a>	Samaco, Rodney	Baylor College of Medicine	\$391,250	National Institutes of Health

<a href="#">Dissecting the neural control of social attachment</a>	Shah, Nirao	University of California, San Francisco	\$764,775	National Institutes of Health
<a href="#">Using induced-pluripotent stem cells to study Phelan McDermid Syndrome</a>	Shcheglovitov, Oleksandr	Stanford University School of Medicine	\$40,000	Autism Science Foundation
<a href="#">Cell type-specific profiling for autism spectrum disorders</a>	Sims, Peter	Columbia University	\$120,000	Simons Foundation
<a href="#">Using zebrafish and chemical screening to define function of autism genes</a>	Sive, Hazel	Whitehead Institute for Biomedical Research	\$0	Simons Foundation
<a href="#">Effect of abnormal calcium influx on social behavior in autism</a>	Sohal, Vikaas	University of California, San Francisco	\$156,250	Simons Foundation
<a href="#">Studying the neural development of patient-derived stem cells</a>	Song, Hongjun	Johns Hopkins University School of Medicine	\$156,250	Simons Foundation
<a href="#">Identifying impairments in synaptic connectivity in mouse models of ASD</a>	Speed, Haley	University of Texas Southwestern Medical Center	\$56,900	Autism Science Foundation
<a href="#">Neural and cognitive mechanisms of autism</a>	Sur, Mriganka	Massachusetts Institute of Technology	\$0	Simons Foundation

<a href="#">Quantitative analysis of effect of autism-related genes on behavioral regulation</a>	Tecott, Laurence	University of California, San Francisco	\$102,000	Simons Foundation
<a href="#">Effects of oxytocin receptor agonists in mouse models of autism spectrum disorder phenotypes</a>	Teng, Brian	University of North Carolina at Chapel Hill	\$48,500	Autism Speaks
<a href="#">Integrated approach to the neurobiology of autism spectrum disorders</a>	Vaccarino, Flora	Yale University	\$0	Simons Foundation
<a href="#">Cellular and genetic correlates of increased head size in autism spectrum disorder</a>	Vaccarino, Flora	Yale University	\$393,455	National Institutes of Health
<a href="#">Neurobiological signatures of social dysfunction and repetitive behavior</a>	Veenstra-Vanderweele, Jeremy	Vanderbilt University	\$395,672	Autism Speaks
<a href="#">Characterization of the schizophrenia-associated 3q29 deletion in mouse</a>	Warren, Stephen	Emory University	\$404,198	National Institutes of Health
<a href="#">Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells</a>	Wynshaw-Boris, Anthony	University of California, San Francisco	\$315,375	Department of Defense - Autism Research Program
<a href="#">Oxytocin receptors and social behavior</a>	Young, Larry	Emory University	\$440,363	National Institutes of Health

<a href="#">Novel approaches to enhance social cognition by stimulating central oxytocin release</a>	Young, Larry	Emory University	\$149,852	Autism Speaks
<a href="#">Roles of oxytocin and vasopressin in brain</a>	Young, Walter	National Institutes of Health	\$1,990,068	National Institutes of Health
<b><u>4.S.C</u></b>				
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. <i>IACC Recommended Budget: \$27,800,000 over 5 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Intranasal oxytocin for the treatment of children and adolescents with autism spectrum disorders (ASD)</a>	Anagnostou, Evdokia	Holland Bloorview Kids Rehabilitation Hospital	\$0	Department of Defense
<a href="#">Tuning anxiety out: Exploring the potential of noise cancellation in ASD sound sensitivity</a>	Atherton, Mark	Brunel University	\$100,000	Autism Speaks
<a href="#">Internet-based trial of omega-3 fatty acids for autism spectrum disorder</a>	Bent, Stephen	University of California, San Francisco	\$62,500	Simons Foundation
<a href="#">Efficacy of N-acetyl cysteine in autism</a>	Berk, Michael	Deakin University	\$146,553	Simons Foundation
<a href="#">Embodied rhythm interventions for children with autism spectrum disorders</a>	Bhat, Anjana	University of Connecticut	\$60,000	Autism Speaks

<a href="#">Metabolic factors affecting gamma synchrony</a>	Casanova, Manuel; Deth, Richard	University of Louisville; Northeastern University	\$25,000	Autism Research Institute
<a href="#">A randomized, controlled trial of intranasal oxytocin as an adjunct to behavioral therapy for autism spectrum disorder</a>	Gabrieli, John	Massachusetts General Hospital	\$0	Department of Defense - Autism Research Program
<a href="#">Effects of therapeutic horseback riding on children and adolescents with autism spectrum disorders</a>	Gabriels, Robin	University of Colorado Denver	\$298,618	National Institutes of Health
<a href="#">Double-blind placebo controlled trial of subcutaneous methyl B12 on behavioral and metabolic measures in children with autism</a>	Hendren, Robert	University of California, Davis	\$0	Autism Speaks
<a href="#">Auditory processing training: A novel treatment for sound hypersensitivities in autism</a>	Lewine, Jeffrey	Cognionics	\$181,154	National Institutes of Health
<a href="#">Training outpatient clinicians to deliver cognitive behavior therapy to children</a>	Reaven, Judy	University of Colorado Denver	\$238,101	National Institutes of Health
<a href="#">Effectiveness of sensory based strategies for improving adaptive behaviors in children with autism</a>	Schaaf, Roseann	Thomas Jefferson University	\$0	Autism Speaks
<a href="#">Electrophysiological and behavioral outcomes of Auditory Integration Training (AIT) in autism</a>	Sokhadze, Estate	University of Louisville	\$10,000	Autism Research Institute
<a href="#">Behavioral and psycho-physiological study of attentional, perceptual, and emotional processing after treatment with ambient prism lenses and</a>	Sokhadze, Estate	University of Louisville	\$0	Autism Research Institute

<a href="#">visuo-motor exercises in children with autism spectrum disorder</a>				
<a href="#">Double masked placebo controlled trial of cholesterol in hypocholesterolemic ASD</a>	Tierney, Elaine	Kennedy Krieger Institute	\$0	Autism Speaks
<a href="#">Daily ratings of ASD Symptoms with digital media devices: An initial validity study</a>	Wood, Jeffrey	University of California, Los Angeles	\$150,000	Autism Speaks
<b><u>4.S.D</u></b>				
Complete two multi-site randomized controlled trials of comprehensive early intervention that address core symptoms, family functioning and community involvement by 2013. <i>IACC Recommended Budget: \$16,700,000 over 5 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Advancing Social-Communication and Play (ASAP): An intervention program for preschoolers with autism</a>	Boyd, Brian; Watson, Linda	University of North Carolina at Chapel Hill	\$859,119	Department of Education
<a href="#">Strengthening the effects of parent-implemented early intervention to improve symptoms of ASD</a>	Estes, Annette	University of Washington	\$250,080	Autism Speaks
<a href="#">5/5-Randomized trial of parent training for young children with autism</a>	Johnson, Cynthia	University of Pittsburgh	\$236,220	National Institutes of Health
<a href="#">Autism Intervention Research Network on Behavioral Health (AIR-B network)</a>	Kasari, Connie	University of California, Los Angeles	\$1,405,365	Health Resources and Services Administration



<a href="#">2/5-Randomized trial of parent training for young children with autism</a>	Lecavalier, Luc	The Ohio State University	\$213,407	National Institutes of Health
<a href="#">Comprehensive parent-mediated intervention for children with autism in southern Taiwan</a>	Lee, Li-Ching	Johns Hopkins University	\$100,000	Autism Speaks
<a href="#">2/2-Effects of parent-implemented intervention for toddlers with autism spectrum disorder</a>	Lord, Catherine	Weill Cornell Medical College	\$284,658	National Institutes of Health
<a href="#">Efficacy and sustainability of the STAR program</a>	Mandell, David	University of Pennsylvania	\$0	Department of Education
<a href="#">Project DATA: A multisite evaluation of a school-based model for preschoolers with autism</a>	McBride, Bonnie; Schwartz, Ilene	University of Oklahoma Health Sciences Center; University of Washington	\$650,000	Department of Education
<a href="#">Evaluation of a comprehensive community-based intervention for toddlers with ASD</a>	McBride, Bonnie; Schwartz, Ilene	University of Oklahoma Health Sciences Center; University of Washington	\$707,793	Department of Education
<a href="#">PASS: Parent-mediated intervention for autism spectrum disorders (ASD) in South Asia</a>	Rahman, Atif	University of Liverpool	\$149,993	Autism Speaks
<a href="#">Strengthening the effects of parent-implemented early intervention to improve symptoms of ASD</a>	Rogers, Sally	University of California, Davis	\$0.00	Autism Speaks
<a href="#">1/5-Randomized trial of parent training for young children with autism</a>	Scahill, Lawrence	Yale University	\$415,097	National Institutes of Health

<a href="#">Joint attention mediated learning intervention for toddlers with autism spectrum disorders and their families</a>	Schertz, Hannah; Odom, Samuel; Baggett, Kathleen	Indiana University; University of North Carolina at Chapel Hill; University of Kansas	\$879,424	Department of Education
<a href="#">3/5-Randomized trial of parent training for young children with autism</a>	Smith, Tristram	University of Rochester	\$230,655	National Institutes of Health
<a href="#">Examining the efficacy of classroom pivotal response teaching in classroom environments</a>	Stahmer, Aubyn	Rady Children's Hospital Health Center	\$653,534	Department of Education
<a href="#">LEAP-USA follow-up project</a>	Strain, Phillip	University of Colorado Denver	\$399,864	Department of Education
<a href="#">4/5-Randomized trial of parent training for young children with autism</a>	Swiezy, Naomi	Indiana University-Purdue University Indianapolis	\$235,418	National Institutes of Health
<a href="#">1/2-Effects of parent-implemented intervention for toddlers with autism spectrum disorder</a>	Wetherby, Amy	Florida State University	\$427,655	National Institutes of Health
<a href="#">A randomized trial of the SCERTS curriculum for students with autism spectrum disorders in early elementary school classrooms</a>	Wetherby, Amy; Morgan, Lindee	Florida State University	\$749,849	Department of Education
<a href="#">Comprehensive autism program using Strategies for Teaching based on Autism Research</a>	Young, Helen; Falco, Ruth	Portland State University	\$0	Department of Education

## 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.*

Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">2/3-Atomoxetine placebo and parent training in autism</a>	Aman, Michael	Ohio State University	\$350,730	National Institutes of Health
<a href="#">Predictors of effects of propranolol on language &amp; connectivity in autism</a>	Beversdorf, David	University of Missouri	\$192,150	Health Resources and Services Administration
<a href="#">ACE Network: Early pharmacotherapy guided by biomarkers in autism</a>	Chugani, Diane	Wayne State University	\$1,996,122	National Institutes of Health
<a href="#">Early pharmacotherapy guided by biomarkers in autism (supplement)</a>	Chugani, Diane	Wayne State University	\$260,000	National Institutes of Health
<a href="#">Biomarkers in Autism of Aripiprazole and Risperidone Treatment (BAART)</a>	Devane, C. Lindsay	Medical University of South Carolina	\$634,243	National Institutes of Health
<a href="#">The use of non-invasive brain stimulation to improve social relating in autism spectrum disorders</a>	Enticott, Peter G.	Monash University	\$0	Brain & Behavior Research Foundation

<a href="#">1/3-Atomoxetine placebo and parent training in autism</a>	Handen, Benjamin	University of Pittsburgh	\$269,976	National Institutes of Health
<a href="#">Behavioral and neural underpinnings of learning in autism predict response to intervention</a>	Jones, Rebecca	Weill Cornell Medical College	\$48,000	Autism Speaks
<a href="#">1/3-Multisite RCT of early intervention for spoken communication in autism</a>	Kasari, Connie	University of California, Los Angeles	\$540,947	National Institutes of Health
<a href="#">3/3-Multisite RCT of early Intervention for spoken communication in autism</a>	Landa, Rebecca	Kennedy Krieger Institute	\$813,835	National Institutes of Health
<a href="#">Effects of self-generated experiences on social cognitive development in young children with autism</a>	Landa, Rebecca	Kennedy Krieger Institute	\$149,967	Autism Speaks
<a href="#">A randomized clinical trial of cognitive enhancement therapy for adults with autism spectrum disorders</a>	Minshew, Nancy	University of Pittsburgh	\$0	Department of Defense
<a href="#">Evidence-based cognitive rehabilitation to improve functional outcomes for young adults with autism spectrum disorders</a>	Minshew, Nancy	University of Pittsburgh	\$100,000.00	Autism Speaks
<a href="#">Improving synchronization and functional connectivity in autism spectrum disorders through plasticity-induced rehabilitation training</a>	Pineda, Jaime	University of California, San Diego	\$0	Department of Defense - Autism Research Program
<a href="#">Identifying markers for treatment response to cognitive training in autism spectrum disorders</a>	Schweitzer, Julie	University of California, Davis	\$153,999	Department of Defense - Autism Research Program

<a href="#">3/3-Atomoxetine placebo and parent training in autism</a>	Smith, Tristram	University of Rochester	\$263,639	National Institutes of Health
<a href="#">2/3-Multisite RCT of early intervention for spoken communication in autism</a>	Smith, Tristram	University of Rochester	\$391,019	National Institutes of Health
<a href="#">The effects of behavioral intervention on neurological measures of working memory</a>	Tarbox, Jonathan	Center for Autism and Related Disorders (CARD)	\$40,811	Center for Autism and Related Disorders
<a href="#">Randomized clinical trial of mind reading and in vivo rehearsal for children with HFASDs</a>	Thomeer, Marcus	Canisius College	\$20,000	Organization for Autism Research
<a href="#">2/3-Multisite RCT of early intervention for spoken communication in autism</a>	Smith, Tristram	University of Rochester	\$392,336	National Institutes of Health
<a href="#">Integrated play groups: Promoting social communication and symbolic play with peers across settings in children with autism</a>	Wolfberg, Pamela	San Francisco State University	\$0	Autism Speaks

#### **4.S.G**

Support at least five studies on interventions for nonverbal individuals with ASD by 2012. Such studies may include:

- Projects examining service-provision models that enhance access to augmentative and alternative communication (AAC) supports in both classroom and adult service-provision settings, such as residential service-provision and the impact of such access on quality of life, communication, and behavior;
- Studies of novel treatment approaches that facilitate communication skills in individuals who are nonverbal, including the components of effective AAC approaches for specific subpopulations of people with ASD; and
- Studies assessing access and use of AAC for children and adults with ASD who have limited or partially limited speech and the impact on

functional outcomes and quality of life.

*IACC Recommended Budget: \$3,000,000 over 2 years.*

Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Transitions from augmentative or alternative communication (AAC) to speech: A pilot investigation</a>	Brady, Nancy	University of Kansas	\$0	Autism Speaks
<a href="#">Making words meet: Using computerized feedback to facilitate word combinations in children with ASD</a>	DeThorne, Laura	University of Illinois at Urbana-Champaign	\$0	Autism Speaks
<a href="#">Contingency analyses of observing and attending in intellectual disabilities</a>	Dube, William	University of Massachusetts Medical School	\$276,181	National Institutes of Health
<a href="#">Emergent communication skills of nonverbal children with autism facilitated by relational responding</a>	Dymond, Simon	Swansea University	\$58,094	Autism Speaks
<a href="#">ACE Center: Inter-regional connectivity in the speech network of minimally verbal children</a>	Guenther, Frank	Boston University	\$365,407	National Institutes of Health

<a href="#">Visualizing voice</a>	Hailpern, Joshua	University of Illinois at Urbana Champaign	\$0	Autism Speaks
<a href="#">ACE Network: Adaptive interventions for minimally verbal children with ASD in the community</a>	Kasari, Connie	University of California, Los Angeles	\$2,755,427	National Institutes of Health
<a href="#">Developmental and augmented intervention for facilitating expressive language</a>	Kasari, Connie; Kaiser, Ann; Landa, Rebecca; Murphy, Susan	University of California, Los Angeles; Vanderbilt University; Kennedy Krieger Institute; University of Michigan	\$0	Autism Speaks
<a href="#">PEAT communication scheduler for autism</a>	Levinson, Richard	Attention Control Systems, Inc.	\$150,000	Department of Education
<a href="#">Optimizing initial communication for children with autism</a>	Mcllvane, William	University of Massachusetts Medical School	\$348,461	National Institutes of Health
<a href="#">Customized representations promote language learning for older learners with ASD</a>	Mineo, Beth	University of Delaware	\$76,500	National Institutes of Health
<a href="#">Phase II. Digital Interactive Scene Program for Language in Autism (DISPL-A)</a>	Murphy, Terence	Monarch Teaching Technology, Inc.	\$236,912	National Institutes of Health
<a href="#">A novel parent directed intervention to enhance language development in nonverbal children with ASD</a>	Patterson, Stephanie	University of California, Los Angeles	\$0	Autism Speaks

<a href="#">ACE Center: Testing the efficacy of a novel intervention for minimally verbal children with ASD</a>	Schlaug, Gottfried	Boston University	\$377,590	Autism Speaks
<a href="#">Comparing AMMT vs. Control Therapy in facilitating speech output in nonverbal children with autism</a>	Schlaug, Gottfried	Beth Israel Deaconess Medical Center	\$0	Autism Speaks
<a href="#">Do animations facilitate symbol understanding in children with autism?</a>	Schlosser, Ralf	Northeastern University	\$197,259	Department of Education
<b><u>4.S.H</u></b>				
Support at least two studies that focus on research on health promotion and prevention of secondary conditions in people with ASD by 2012. Secondary conditions of interest include weight issues and obesity, injury, and co-occurring psychiatric and medical conditions. <i>IACC Recommended Budget: \$5,000,000 over 3 years.</i>				
Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Growing Up Aware: A parent-based sexuality intervention for children with autism spectrum disorders</a>	Ballan, Michelle	Columbia University	\$20,000	Organization for Autism Research
<a href="#">Treatment of sleep disturbances in young children with autism</a>	Johnson, Cynthia	University of Pittsburgh	\$214,889	National Institutes of Health
<a href="#">Electronic location reporting for individuals with cognitive disabilities</a>	Saripalli, Suman	Intellispeak, LLC	\$561,963	National Institutes of Health
<a href="#">Tailored behavioral intervention for insomnia in children with autism spectrum disorders</a>	Souders, Margaret	University of Pennsylvania	\$159,975	Department of Defense - Autism Research



**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.*

Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">A multi-site double-blind placebo-controlled trial of memantine vs. placebo in children with autism</a>	Anagnostou, Evdokia	Holland Bloorview Kids Rehabilitation Hospital	\$0	Autism Speaks
<a href="#">Randomized controlled trial of oxytocin treatment for social deficits in children with autism</a>	Carson, Dean	Stanford University	\$50,600	Autism Speaks
<a href="#">Evaluation of a melanocortin agonist to improve social cognition in ASD.</a>	Guastella, Adam	University of Sydney	\$74,675	Simons Foundation
<a href="#">Controlled trial of sertraline in young children with Fragile X Syndrome</a>	Hagerman, Randi	University of California, Davis	\$285,970	Health Resources and Services Administration
<a href="#">Testing the use of helminth worm ova in treating autism spectrum disorders</a>	Hollander, Eric	Montefiore Medical Center	\$124,802	Simons Foundation

<a href="#">Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial</a>	Johnson, William	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School	\$0.00	Department of Defense
<a href="#">ACE Center: Understanding repetitive behavior in autism</a>	McCracken, James	University of California, Los Angeles	\$281,072	National Institutes of Health
<a href="#">New experimental medicine studies: Fast-Fail Trials in autism spectrum disorders</a>	No PI Identified	University of California, Los Angeles	\$115,889	National Institutes of Health
<a href="#">Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial</a>	Novotny, Sherie	University of Medicine & Dentistry of New Jersey - Robert Wood Johnson Medical School	\$0.00	Department of Defense
<a href="#">Association of cholinergic system dysfunction with autistic behavior in fragile X syndrome: Pharmacologic and imaging probes</a>	Reiss, Allan	Stanford University	\$92,469	Autism Speaks
<a href="#">Randomized phase 2 trial of RAD001 (an mTOR inhibitor) in patients with tuberous sclerosis complex</a>	Sahin, Mustafa	Childrens Hospital Boston	\$65,000.00	Autism Speaks
<a href="#">ACE Network: Study of Oxytocin in Autism to Improve Reciprocal Social Behaviors (SOARS-B)</a>	Sikich, Linmarie	University of North Carolina at Chapel Hill	\$2,589,347	National Institutes of Health
<a href="#">Developing treatment, treatment validation, and treatment scope in the setting of an autism clinical trial</a>	Stein, Peter	University of Medicine & Dentistry of New Jersey	\$0.00	Department of Defense
<a href="#">Trial of a glutamate antagonist in the treatment of OCD and autistic disorders</a>	Swedo, Susan	National Institutes of Health	\$33,959	National Institutes of Health

#### **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.*

<b>Project Title</b>	<b>Principal Investigator</b>	<b>Institution</b>	<b>Funding</b>	<b>Funder</b>
<a href="#">Pivotal response treatment for infants at risk for ASD: A pilot intervention</a>	Chawarska, Katarzyna	Yale University	\$83,000	National Institutes of Health
<a href="#">ACE Center: Targeting joint engagement in infants at risk for ASD: Integrating treatment with biomarkers</a>	Kasari, Connie	University of California, Los Angeles	\$279,987	National Institutes of Health

#### **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.*

<b>Project Title</b>	<b>Principal Investigator</b>	<b>Institution</b>	<b>Funding</b>	<b>Funder</b>
<a href="#">Metabolic signature of antipsychotics used in the treatment of autism</a>	Ben-Jonathan, Nira	University of Cincinnati	\$0	Department of Defense - Autism Research Program
<a href="#">Mirtazapine treatment of anxiety in children and adolescents with pervasive developmental disorders</a>	McDougle, Christopher	Indiana University	\$94,242	Autism Speaks

<a href="#">Pharmacotherapy of pervasive developmental disorders</a>	Stigler, Kimberly	Indiana University-Purdue University Indianapolis	\$182,830	National Institutes of Health
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#### **4.L.D**

Support at least five community-based studies that assess the effectiveness of interventions and services in broader community settings by 2015. Such studies may include comparative effectiveness research studies that assess the relative effectiveness of:

- Different and/or combined medical, pharmacological, nutritional, behavioral, service-provision, and parent- or caregiver-implemented treatments;
- Scalable early intervention programs for implementation in underserved, low-resource, and low-literacy populations; and
- Studies of widely used community intervention models for which extensive published data are not available. Outcome measures should include assessment of potential harm as a result of autism treatments, as well as positive outcomes.

*IACC Recommended Budget: \$37,500,000 over 5 years.*

<b>Project Title</b>	<b>Principal Investigator</b>	<b>Institution</b>	<b>Funding</b>	<b>Funder</b>
<a href="#">Parent-implemented social-pragmatic communication intervention for young children with developmental disabilities</a>	Angell, Maureen	Illinois State University	\$0	Department of Education
<a href="#">iSKILLS : The audio/video guidance repository for life skills</a>	Ayres, Kevin; Rieber, Lloyd; Cihak, David	University of Georgia; University of Tennessee	\$398,120	Department of Education
<a href="#">Animal-assisted intervention for children with autism spectrum disorder</a>	Beck, Alan	Purdue University	\$75,007	National Institutes of Health

<a href="#">Teaching children with autism to identify others' knowledge</a>	Bergstrom, Ryan	Center for Autism and Related Disorders (CARD)	\$11,660	Center for Autism and Related Disorders
<a href="#">Teaching children with autism to deal with jealousy constructively</a>	Bergstrom, Ryan	Center for Autism and Related Disorders (CARD)	\$5,830	Center for Autism and Related Disorders
<a href="#">Peer-mediated interventions for elementary school students with autism spectrum disorders</a>	Blakeley-Smith, Audrey; Hepburn, Susan	University of Colorado Denver	\$8,194	Organization for Autism Research
<a href="#">Related services intervention for expressive and receptive language skills in autism spectrum disorder and in cognitive impairment</a>	Camarata, Steven	Vanderbilt University	\$0	Department of Education
<a href="#">Peer support and peer network interventions to improve peer relationships and school engagement</a>	Carter, Erik; Asmus, Jennifer	Vanderbilt University; University of Wisconsin-Madison	\$641,771	Department of Education
<a href="#">Evaluation of synchronous online parent skill training</a>	Desrochers, Marcie	The Research Foundation of the State University of New York	\$10,000	Organization for Autism Research
<a href="#">Efficacy of a qigong massage methodology for children with ASD aged 3-11 years</a>	Gabrielsen, Kristen	Western Oregon University	\$242,590	Health Resources and Services Administration
<a href="#">Pivotal response group treatment for parents of young children with autism</a>	Hardan, Antonio	Stanford University	\$0	Autism Speaks

<a href="#">Preschool reading and language interventions for children with autism</a>	Hudson, Roxanne	University of Washington	\$299,795	National Institutes of Health
<a href="#">Effectiveness of reciprocal imitation training for adolescents with low-functioning autism</a>	Ingersoll, Brooke	Michigan State University	\$0	Autism Speaks
<a href="#">Improving social-communication, literacy, and adaptive behaviors for young children with autism spectrum disorders</a>	Kamps, Debra; Schwartz, Ilene	University of Kansas; University of Washington	\$745,000	Department of Education
<a href="#">Deployment focused model of JASPER for preschoolers with autism spectrum disorders</a>	Kasari, Connie	University of California, Los Angeles	\$0	Autism Speaks
<a href="#">Developing a 3D-based virtual learning environment for use in schools to enhance the social competence of youth with autism spectrum disorder</a>	Laffey, James; Stichter, Janine	University of Missouri	\$0	Department of Education
<a href="#">Development of a social and communication intervention for preschoolers with autism</a>	Landa, Rebecca	Kennedy Krieger Institute	\$499,966	Department of Education
<a href="#">Using lag schedules of reinforcement to teach play skills to children with autism spectrum disorders</a>	Lang, Russell	Texas State University	\$20,000	Organization for Autism Research
<a href="#">Early intervention in an underserved population</a>	Lord, Catherine	University of Michigan	\$73,219	Autism Speaks
<a href="#">A computer-based social intervention for students with high functioning ASD: Using technology to improve special education</a>	McMillan, Janey	3-C Institute for Social Development	\$899,994	Department of Education

<a href="#">Tactile Awareness Prompting (TAP) System</a>	Mortimer, Bruce	Engineering Acoustics, Inc.	\$74,839	Department of Education
<a href="#">Virtual reality applications for the study of attention and learning in children with autism and ADHD</a>	Mundy, Peter	University of California, Davis	\$369,546	Department of Education
<a href="#">Center on Secondary Education for Students with Autism Spectrum Disorders (CSESA)</a>	Odom, Samuel	University of North Carolina at Chapel Hill	\$2,000,903	Department of Education
<a href="#">Comparison of two comprehensive treatment models for preschool-aged children with autism spectrum disorders and their families</a>	Odom, Samuel; Boyd, Brian	University of North Carolina at Chapel Hill; University of Miami; University of Colorado at Denver	\$0	Department of Education
<a href="#">Teaching children with autism to identify social saliency: Shifting attention</a>	Persicke, Angela	Center for Autism and Related Disorders (CARD)	\$29,150	Center for Autism and Related Disorders
<a href="#">Teaching children with autism to respond to subtle social cues: Desires</a>	Persicke, Angela	Center for Autism and Related Disorders (CARD)	\$29,151	Center for Autism and Related Disorders
<a href="#">Increasing flexibility in children with autism</a>	Ranick, Jennifer	Center for Autism and Related Disorders (CARD)	\$40,811	Center for Autism and Related Disorders
<a href="#">Teaching children with autism self-monitoring skills</a>	Ranick, Jennifer	Center for Autism and Related Disorders (CARD)	\$40,811	Center for Autism and Related Disorders

<a href="#">Teaching children with autism to detect deception</a>	Ranick, Jennifer	Center for Autism and Related Disorders (CARD)	\$24,904	Center for Autism and Related Disorders
<a href="#">The effectiveness of an evidence-based parent training intervention in a community service setting</a>	Stadnick, Nicole	University of California, San Diego	\$0	Autism Speaks
<a href="#">Translating pivotal response training into classroom environments</a>	Stahmer, Aubyn; Schreibman, Laura	Rady Children's Hospital Health Center	\$0	Department of Education
<a href="#">Developing a school-based social competence intervention (SCI)</a>	Stichter, Janine	University of Missouri	\$0	Department of Education
<a href="#">Evaluating the efficacy of the school-based Social Competence Intervention for Adolescents (SCI-A) with high functioning autism</a>	Stichter, Janine	University of Missouri	\$797,258	Department of Education
Design and evaluation of a motion-sensing computer program for teaching children with autism	Tarbox, Jonathan	Center for Autism and Related Disorders (CARD)	\$58,301	Center for Autism and Related Disorders
<a href="#">iPrompt to improve teaching students with ASD</a>	Tedesco, Robert	HandHold Adaptive, LLC	\$305,814	Department of Education



<a href="#">Efficacy of the home TEACCHing program for toddlers with autism</a>	Turner-Brown, Lauren	University of North Carolina at Chapel Hill	\$299,995	Health Resources and Services Administration
<a href="#">Expanding the reach of toddler treatment in autism</a>	Vismara, Laurie	University of California, Davis	\$0	Organization for Autism Research
<a href="#">Development of an intervention to enhance the social competencies of children with Asperger's/high functioning autism spectrum disorders</a>	Volker, Martin; Lopata, Christopher; University of Rochester	University at Buffalo, The State University of New York	\$0	Department of Education
<a href="#">Efficacy of a parent-mediated intervention for one-year-olds at risk for autism</a>	Watson, Linda	University of North Carolina at Chapel Hill	\$685,483	Department of Education
<a href="#">Social communication and symbolic play intervention for preschoolers with autism</a>	Watson, Linda; Boyd, Brian	University of North Carolina at Chapel Hill	\$0	Department of Education
<a href="#">ACE Center: Changing developmental trajectories through early treatment</a>	Wetherby, Amy	Emory University	\$390,669	National Institutes of Health
<a href="#">Software to enrich the noun lexicons and lexical learning of children with autism</a>	Wilson, Mary	Laureate Learning Systems, Inc.	\$756,189	National Institutes of Health
<a href="#">Outcomes of a community center-based program for toddlers with autism spectrum disorders</a>	Wong, Connie; Odom, Samuel	University of North Carolina at Chapel Hill	\$9,120	Organization for Autism Research

<a href="#">Cognitive behavioral therapy for core autism symptoms in school-age children</a>	Wood, Jeffrey	University of California, Los Angeles	\$0	Autism Speaks
<b><u>4. Other</u></b> Not specific to any objective				
Project Title	Principal Investigator	Institution	Funding	Funder
<a href="#">Development of an executive function-based intervention for autism spectrum disorder</a>	Anthony, Laura	Children's Research Institute	\$255,420	National Institutes of Health
<a href="#">A non-interactive method for teaching noun and verb meanings to young children with ASD</a>	Arunachalam, Sudha	Boston University	\$59,986	Autism Speaks
<a href="#">Teaching children with ASD to tell socially appropriate "white lies"</a>	Bergstrom, Ryan	Center for Autism and Related Disorders (CARD)	\$18,078	Center for Autism and Related Disorders
<a href="#">Robot child interactions as an intervention tool for children with autism</a>	Bhat, Anjana	University of Connecticut	\$341,773	National Institutes of Health
<a href="#">Leadership Education in Neurodevelopmental Disabilities</a>	Blum, Nathan	University of Pennsylvania	\$26,000	Health Resources and Services Administration
<a href="#">Assessing interactive avatars for use with children with autism</a>	Carter, Elizabeth	Carnegie Mellon University	\$76,800	National Institutes of Health

<a href="#">Building a selective inhibitory control tone in autism: An rTMS study</a>	Casanova, Manuel	University of Louisville	\$219,780	National Institutes of Health
<a href="#">Virtual Environment for Social Information Processing (VESIP) Phase II</a>	Crossman, Jacob	Soar Technology, Inc.	\$163,841	Department of Education
<a href="#">Guiding visual attention to enhance discrimination learning</a>	Carlin, Michael	University of Massachusetts Medical School	\$172,842	National Institutes of Health
<a href="#">Delayed motor learning in autism</a>	Dizio, Paul	Brandeis University	\$356,598	National Institutes of Health
<a href="#">Hybrid social communication intervention for children with ASD: Sibling mediation and video modeling</a>	Donaldson, Amy	Portland State University	\$59,998	Autism Speaks
<a href="#">Utility of social robots for promoting joint attention in infants and toddlers with disabilities</a>	Dunst, Carl	Orelena Hawks Puckett Institute	\$0	Department of Education
<a href="#">Exploration of resting-state network dynamics in autism spectrum disorders</a>	Eldaief, Mark Christian	Harvard University	\$0	Brain & Behavior Research Foundation
<a href="#">Identifying socially-based reinforcers for young children with ASD</a>	Gutierrez, Anibal	University of Miami	\$10,000	Organization for Autism Research
<a href="#">Sensory over responsivity &amp; anxiety in youth with autism</a>	Green, Shulamite	University of California, Los Angeles	\$33,337	National Institutes of Health

<a href="#">Using robotics to promote social cognitive skills in the inclusive classroom</a>	Lathan, Corinna	Anthrotronix, Inc.	\$0	Department of Education
<a href="#">Developing a novel treatment for restricted inflexible behavior</a>	Lewis, Mark	University of Florida	\$178,061	National Institutes of Health
<a href="#">Effects of active motor &amp; social training on developmental trajectories in infants at high risk for ASD</a>	Libertus, Klaus	Kennedy Krieger Institute	\$40,000	Autism Science Foundation
<a href="#">Parent-based sleep education program for children with autism spectrum disorders</a>	Malow, Beth	Vanderbilt University	\$0	Health Resources and Services Administration
<a href="#">HCC-Medium: Personalized socially-assistive human-robot interaction: Applications to autism spectrum disorder</a>	Mataric, Maja	University of Southern California	\$19,420	National Science Foundation
<a href="#">Adapting cognitive enhancement therapy for ASD</a>	Minshew, Nancy	University of Pittsburgh	\$213,586	National Institutes of Health
<a href="#">Desensitization techniques for difficult behaviors</a>	Openden, Daniel	Southwestern Autism Research & Resource Center (SARRC)	\$50,000	Southwest Autism Research & Resource Center
<a href="#">SBIR Phase I: A consumer robot designed to help children with autism spectrum disorders practice critical social skills</a>	Patel, Seema	Interbots LLC	\$146,639	National Science Foundation
<a href="#">Increasing variability of verbal initiations through the responses of conversation patterns</a>	Petursdottir, Anna	Texas Christian University	\$20,000	Organization for Autism Research

<a href="#"><u>Adaptive response technology for autism spectrum disorders intervention</u></a>	Sarkar, Nilanjan	Vanderbilt University	\$371,470	National Institutes of Health
<a href="#"><u>A novel adaptive transactional virtual reality-based assistive technology for autism intervention</u></a>	Sarkar, Nilanjan	Vanderbilt University	\$104,814	National Science Foundation
<a href="#"><u>Phase 2: Animated Visual Support for Social Support (AViSSS); An interactive virtual experience for social skill development</u></a>	Smith, Sean	University Of Kansas Center For Research, Inc.	\$299,411	Department of Education
<a href="#"><u>Prosodic and pragmatic training in highly verbal children with autism</u></a>	Snedeker, Jesse	Harvard University	\$100,000	Simons Foundation
<a href="#"><u>Wireless EEG system for training attention and eye movement in ASD</u></a>	Townsend, Jeanne	University of California, San Diego	\$271,250	National Institutes of Health
<a href="#"><u>Pocket Potty Program - Toilet training for children with developmental disabilities</u></a>	Truong, Amy	The Sandbox Learning Company	\$74,730	Department of Education
<a href="#"><u>Treatment of Autism Symptoms in Children (TASC): Initial RCT with active control</u></a>	Wood, Jeffrey	University of California, Los Angeles	\$385,000	National Institutes of Health

