



Thompson Center
University of Missouri

Thompson Center

For Autism & Neurodevelopmental Disorders

2014 Annual Report



Extraordinary Care for Extraordinary Kids

In 2005, William and Nancy Thompson provided a generous gift to create the MU Thompson Center for Autism and Neurodevelopmental Disorders.

The Thompsons hoped to create a center to help improve the lives of individuals with autism and other neurodevelopmental conditions. Now nearly 10 years later, the Thompson Center's specialist team includes faculty and staff from many different disciplines, including developmental pediatrics, neuropsychology, genetics, psychiatry, nursing, occupational and speech language therapy, social work, and applied behavior analysis.

Our Vision

The Thompson Center will become a national leader in clinical care, professional training, research, and public policy related to autism and neurodevelopmental disorders.

Our Mission

To improve the lives of individuals and families affected by autism and neurodevelopmental disorders through world-class programs that integrate research, clinical service delivery, education, and public policy.

Financial Overview

The original generous donation of William and Nancy Thompson provided a framework for Thompson Center operations and endowed two faculty chairs. The Thompson Center now relies on several sources of income to fund the center’s mission to integrate research, clinical service delivery, and education.

Revenue Sources FY2014



In FY2014, the Thompson Center had four main sources of revenue. External funding in the form of grants and contracts from government agencies and private foundations make up the largest segment of the Center’s revenue stream at 59.6%. Gifts and endowment income comprised 13.9% of the revenue. The University provides the Thompson Center with operating income from the General Revenue Fund, supplying 15.4% of our revenue in FY2014, and other miscellaneous income comprised 11.2% of our revenue.

Grants & Contracts	59.6%
General Revenue	15.4%
Gifts & Endowment	13.9%
Miscellaneous Income	11.2%

We received major gift funds

from the Thompson Foundation for Autism, which was used to support programs and faculty expansion. Behavioral therapy services accounted for the majority of expenditures at 68% with the addition of faculty leadership for the division, additional staff, and behavior-related service scholarships for clients. Another 26% was invested in training for staff professionals, 5% in scholarships for medical services, and 2% toward upgrading our research database to support advanced data-oriented research projects.



Applied Behavioral Intervention Services

Formerly the Intervention Services Division, our services in applied behavior analysis include some of the most successful treatments available for children with autism and other neurodevelopmental disorders. Our providers offer individual and group therapy programs and workshops focused on improving positive behaviors and decreasing undesirable behaviors, particularly in school-age and younger children. Our former Intervention Services Division was renamed Applied Behavioral Intervention Services, or ABIS, to more accurately describe the type of services we provide.

In FY2014, ABIS recruited one of the field's top clinicians and researchers, Dr. SungWoo Kahng, to lead a new phase of expansion for this critical category of services for our patients. Kahng, who was previously faculty at the Johns Hopkins University and clinician at the Kennedy Krieger Institute in Baltimore, Md., is an expert in Applied Behavior Analysis with an emphasis on improving severe behaviors such as self-injury.

With Missouri's current dearth of qualified behavior analysts, one of Kahng's goals for the division is the development of new academic programs to train and recruit the field's top candidates. A certification program through the University of Missouri School of Health Professions will welcome its first cohort in fall 2015. Kahng is concurrently developing future master's and doctoral degree programs in Applied Behavior Analysis in coordination with MU's School of Health Professions.



Intervention Services

FY2014 Visits

470



Leaps Ahead Program (LAP)

The Leaps Ahead Program is a clinic-based Applied Behavior Analysis service that offers a controlled environment to assist children with participating in group activities, managing challenging social situations, building social competence, and directing language toward their peers. These skills help build confidence and preparedness in young children for entering educational and other group social settings.

1,386



Early Intensive Behavioral Intervention (EIBI)

EIBI is a long-term service for children with Autism Spectrum Disorder (ASD) or other neurodevelopmental disorders. EIBI consultants provide behavioral assessment, treatment planning, behavioral training, and ongoing follow up using a variety of methods from the field of Applied Behavior Analysis. The focus of treatment is on teaching skills across developmental domains and on reducing problem behavior. Services include an initial comprehensive skills assessment of the patients, initial training for EIBI teams who will be working with the patients, and ongoing monthly consultations to ensure patient progress.

210



Behavior Supports Clinic (BSC)

BSC is a short-term service designed to improve adaptive skills & reduce problem behavior. Possible targets for intervention include increasing compliance, improving communication and language, decreasing aggression and self-injurious behaviors, mastering daily living skills, and tolerating difficult experiences.

Intensive Toilet Training is a specific BSC service that incorporates the principals of Applied Behavior Analysis to teach children to independently use the toilet.

Clinical Services



The Thompson Center specializes in the assessment, diagnosis, and treatment of developmental conditions. New patients are referred by their primary care physician, pediatrician, school specialist, therapist, or other agencies. Our diagnostic services include comprehensive medical and autism-specific evaluations. We also offer services for children and adolescents with other psychological concerns or developmental delays such as anxiety or Down syndrome.

With the 400 percent increase in autism diagnoses in Missouri since our founding in 2005, the Thompson Center recognized the need to add additional providers to serve patients throughout the state and meet their medical and mental health needs.

Our medical services include comprehensive medical and behavioral diagnostic services using a multidisciplinary team of professionals for diagnosis, treatment, and long-term management of a range of neurodevelopmental concerns.

Our current services include:

- **Autism Diagnostic Clinics**
- **Neuropsychology Evaluations**
- **Multidisciplinary Assessments**
- **Autism Medical Clinics**
- **Developmental Clinic**
- **Special Needs Clinic**
- **NICU Follow-Up Care**
- **Cerebral Palsy Clinic**
- **Group Visits**
- **Applied Behavior Analysis**
- **Occupational Therapy**
- **Speech Therapy**
- **Severe Behavior Clinic**

Services

Care coordination activities include:

- Partnering with families to identify family social, educational, and health-care needs
- Assisting families in navigating systems of care to meet these needs
- Partnering with families to develop an individualized plan of care
- Following up to monitor progress toward family and patient goals

Individual and Family Therapy

Outpatient psychotherapy and consultation services for children, adolescents, adults, and families with autism spectrum disorders, other neurodevelopmental disorders, or chronic health conditions.

Services focus on addressing psychological or behavioral concerns, including:

- Emotional and behavioral functioning
- Social engagement and family functioning
- Adjustment to medical, developmental or health condition



Research

- **Thompson Center investigators submitted 16 proposals**
- **Of those, six proposals are pending, totaling \$5.45 million**
- **Six new projects were funded for a total of \$4.2 million**

Research is crucial to the mission of the Thompson Center. Our talented and diverse faculty investigators continue to garner funding for relevant research aimed at improving the lives of individuals and families affected by autism spectrum disorders and other neurodevelopmental concerns. Thompson Center research is founded on an interdisciplinary collaborative approach, drawing on the expertise of numerous disciplines including physicians, psychologists, educators, communication experts, occupational therapists, nurses, and other health professionals.

Research Highlights

In FY2014, the Thompson Center Research Core managed a significant expansion in the capabilities of our research database to integrate research participation and clinical data. By increasing our reporting accuracy and connecting outcomes with other data points, the upgrade also expands the center's potential for interdisciplinary and collaborative research at the heart of our mission.

Thirteen of our faculty and students presented research posters at the 13th annual International Meeting for Autism Research, or IMFAR, the world's premier showcase for cutting-edge autism research, where Dr. Micah Mazurek also presented a talk on her research on aggression in children with ASD.

Dr. Mazurek's \$3.8 million grant from the National Institutes of Health moved into its second year of data collection toward refining the Autism Impact Measure, developed by her and Dr. Stephen Kanne, to measure the success of autism treatments.

To further opportunities for research recruitment, tracking, and data dissemination, the Thompson Center is also a partner in three major national research networks:

- **Simons Simplex Collection**
- **Autism Treatment Network**
- **Interactive Autism Network**

Thompson Center researcher Nancy Cheak-Zamora also received a \$500,000 Department of Defense Idea Development Award to study health care transition to adulthood for youth with ASD. The center's research collaboration also expanded in FY2014 to include more interdisciplinary projects, particularly with engineering faculty.

Dr. Judith Miles continued her work with Dr. Gang Yao in bioengineering to develop a pupillary light reflex (PLR) device that will hopefully be used as a biomarker for identifying neurodevelopmental concerns in young children. Dr. Miles also collaborated with Dr. Ye Duan in computer science to explore distinct facial features in children with autism as they relate to groups of symptoms.



Training

In FY2014, Thompson Center trainings reached:



3,807 Professionals



3,145 Students

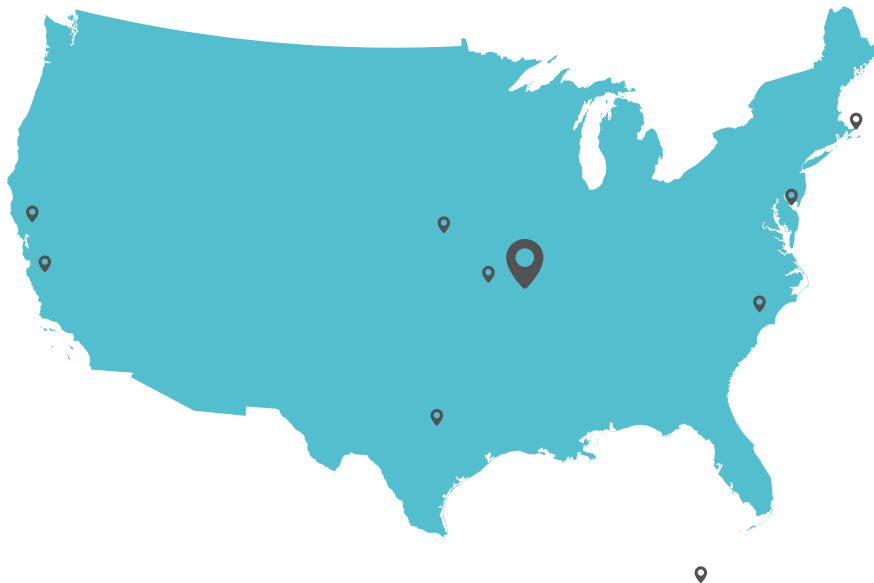


1,225 Online



242 Family Members

As part of our mission and vision, the Thompson Center is dedicated to providing relevant, accessible training for professionals, students, communities, and families. In FY2014, the Thompson Center provided 91 community-based presentations and 126 presentations for pre-professional students related to autism spectrum disorders and other neurodevelopmental conditions.



Missouri

Alma
Adrian
Columbia
Fenton
Harrisonville
Hermann
Jefferson City
Kirbyville
Lee's Summit
Liberty
Monett
Mokane
Rockwood
Rolla
St. Louis
Union Star
Wright City
Webster Groves

National

Boston, MA
San Francisco, CA
Houston, TX
Greenville, SC
Irvine, CA
Omaha, NE

International

Kingston, Jamaica

TEAM Initiative

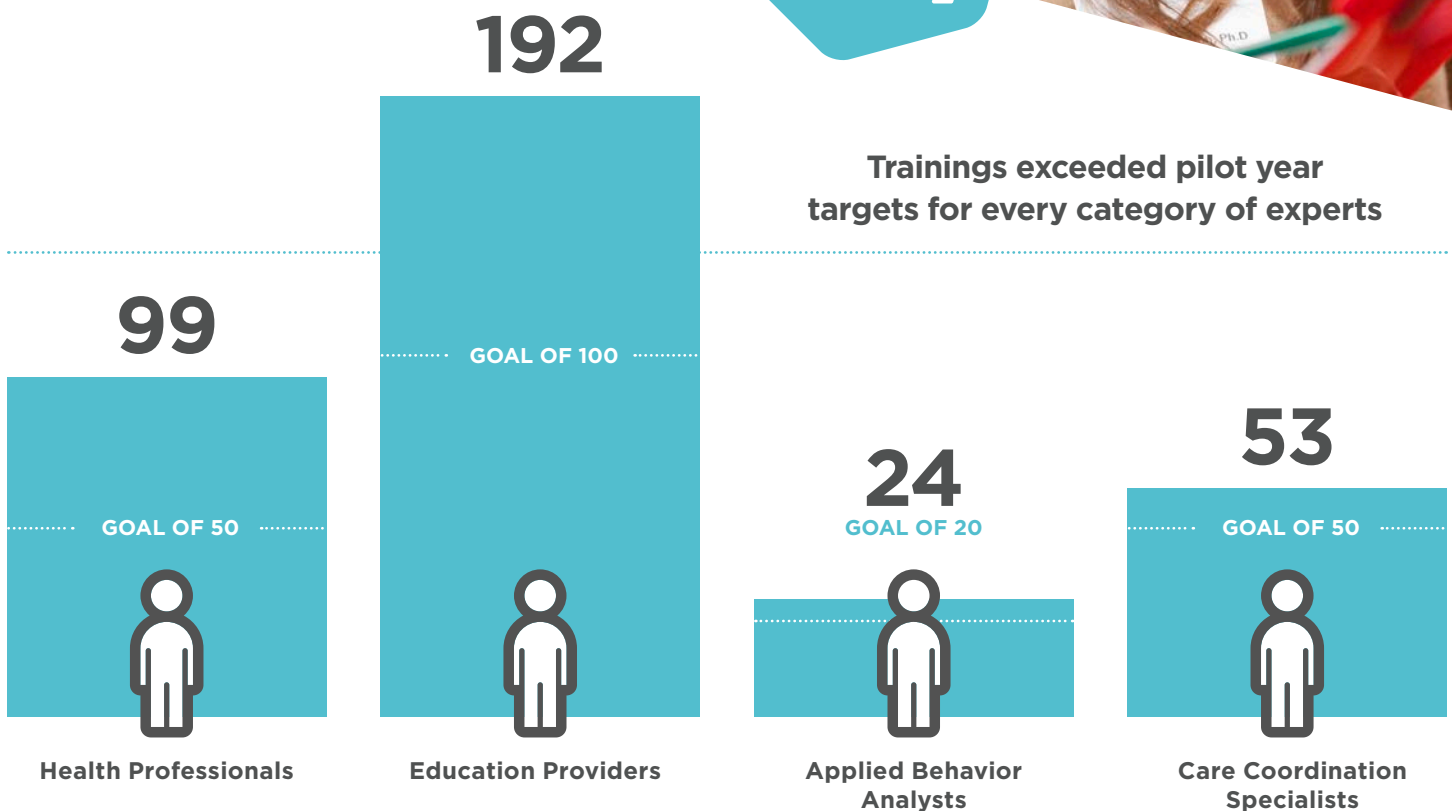
The Training Experts in Autism for Missouri (TEAM) project initiated in FY2013 provided high-quality training and ongoing support to four specific groups across the state: Health Professionals, Applied Behavioral Analysts, Educational Providers, and Care Coordination Specialists.

This program, which is free for participants, targets professionals who already work with individuals with autism as well as those who are not already working with children with autism or might not feel equipped to treat them without additional training, thereby increasing capacity by growing the number of on-the-ground professionals.

TEAM provided trainings in 7 of Missouri's 11 regions in FY2014, including 368 professionals.



Trainings exceeded pilot year targets for every category of experts



Training Highlights

- Developed an Applied Behavior Analysis certification program for master's level candidates in the University of Missouri School of Health Professions to begin its first cohort in fall 2015
- TEAM trainings for educators in autism best practices expanded into St. Louis, Kansas City, Jefferson City and more than a dozen other Missouri school districts
- Developed Summer Institute professional development program for educators to launch in July 2015
- Trained 228 professionals in the Autism Diagnostic Observation Schedule (ADOS-2) and Autism Diagnostic Interview-Revised (ADI-R)
- Developed monthly parent trainings for topics including autism overview, common medical concerns, therapies and services, navigating schools, and parent tips and insights.

Faculty and Network Expansion

Since our founding in 2005, the Thompson Center faculty has grown tenfold, from three to more than 30. Our FY2014 faculty additions include:

Connie Brooks

Assistant Professor, Department of Health Psychology

John Hall

Assistant Professor, Department of Psychiatry

SungWoo Kahng

Associate Professor, School of Health Professions

Dean Lasseter

Assistant Professor, Department of Child Health

Karen O'Connor

Assistant Research Professor, Training Core

Jena Randolph

Assistant Research Professor, Training Core

In addition to faculty growth, the Thompson Center has expanded its network of provider affiliations as well. In FY2014, we established an agreement to partner with Mercy Autism Center, a specialized autism center within the Mercy Children's network in St. Louis, by sharing their respective strengths in order to expand opportunities for clinical care, professional education, and research.

This partnership benefits both organizations, allowing the Thompson Center to expand its capacity for research projects and education programs, extend the reach of our clinical impact, and promote best practices in the field. Mercy will also enhance its clinical and family-centered services, expand its educational and research opportunities, and promote the consistent use of evidence-based practices.

The affiliation process includes universal use of the Thompson Center's best practices for ASD, the collaborative use of the guidelines described in the Missouri Autism Guidelines Initiative (MAGI) publications, and the incorporation of new evidence-based approaches to care.



Thank You to Our Donors

We thank our generous donors, who share a commitment to increasing understanding of autism and neurodevelopmental disorders. Your vision and financial support allow us to provide excellent clinical services, develop innovative treatments, and prepare the next generation of health-care professionals.

We are especially grateful to Bill and Nancy Thompson and the Thompson Foundation for Autism. Their transformational gift and ongoing support have made the Thompson Center a reality.

Mark Adams
Advantage Capital Partners
Aetna, Inc.
Catherine Allen
Dick Allen
Ameren Missouri
Arch Coal
Tamera Arnold
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AT&T Corporate
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Gary Drewing
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Eldercare Management Systems, Inc.
Ella's Hope for Autism
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John Gaberino
Gamma Rho Chapter of Alpha Tau
Omega
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Steve Gleason
Boyd Goetzman
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Robert Graham
J. Grosko
Kelly Gross
Bill Gross
José & Diane Gutiérrez
Hal Lowenstein
Pasi Hamalainen

Hammond Associates
Brian Hansen
Mike & Annie Harman
Brandon & Lisa Harp
Carol Harp
Ray Hayes
Diane Hefelee
Myles & Lora Hinkel
Douglas Hodge
Sandra Hodge
Doug Hodge
David Hoffman
Hogan Family Fund
Holden Family Foundation
Holiday Inn Executive Center
Guy Hollingshad
Ed Holthaus
Howard Park Early Childhood Center
Huntleigh McGehee
Inside Columbia Magazine
Janet Jacobs
Jay & Kelly Jacobs
Darlene Johnson
Everett Johnson
Scott Johnson
Jeff Johnston
Margaret Jones
Steve & Christine Kanne
James Keller
Joe Kelley
Kelley Real Estate
Alois Kertz
Margaret Key
Ronald Key
Vicki Kiehl
Kirwan Family Trust
Knights of Columbus
Ronald Koder
Chris & Linda Koenemann
KOMU-TV
Carrie Kremer
Jeremy & Emily Krout
Ruth LaHue
Landmark Bank
Thomas Larkin
Tony LaRussa

Nancy Laurie	Jack Newsom	Sinquefield Charitable Foundation
Linda Legg	Tim & Mary Ney	Smith Barney
Lions Club of Webster Groves	Northwestern Mutual	John Sondag
Rebecca Llorens	Jeffrey Offutt	Donn Sorensen
Lockton Companies	Orange County Community Foundation	St. Louis Cardinals
Lowenbaum Partnership	Tom Otterbein	St. Louis Rams
David & Leslie Lown	Outfront Communications	Karen Stern
Lucky's Farmers Market	Oxenhandler for Judge	Ralph & Sue Stern
Ginger Luetkemeyer	Pacific Life	Tom & Bonnie Strauss
Lumiere Place	Paric Corporation	Charles Stribling
Philip Mackey	Melody Parry	Stribling Foundation
James & Heather Madden	Paternity Testing Corporation	Nelson Strom
Sudesh Mariappa	Sheri Paulo	Summit Strategies Group
Ruth Marrion	Peabody Energy Corporation	Bob & Ellen Sunness
Mike Matheny	Peabody Holding Corporation	The Business Times Company
Scott & Nicole Mather	People's Bank	The Ceramic Café
Dave Mayo	Jennifer Perlow	The Cupps Family
Jim Mazzo	Perlow-Stevens Gallery	The Koepfgen Foundation
MBS Textbook Exchange, Inc.	PIMCO Foundation	The Weil Family
McEagle Fund, LLC	Gary Pinkel	Brad Thompson
William McGinnis	William Podlich	Sara Thompson
Mark McGwire	Jim & Ann Poehling	William & Nancy Thompson
Bill McIntosh	Bill Powers	Bill & Claire Thompson
Larry McMullen	Project Change, Inc.	Donald Thompson
William McPheeters	Pulaski Bank	Thompson Coburn, LLD
Mercy Autism Center	Donald Putnam	Thompson Family Fund
Mercy Health Foundation	Pyramid Home Health Services	Thompson Foundation for Autism
Mercy Hospital	John & Kathy Qualy	Tom Atkins Maintenance Management, LLC
Doug & Courtney Mertens	Aidan Raney	Rick & Gay Tompkins
Michael Mesner	Shelley Ravipudi	J. Trice
Andy Metzger	Steven Rayman	Tulsa Community Foundation
Mark Meyerdirk	Bob & Judi Reeves	Dan Twardowski
MFA Inc. Charitable Foundation	Jack & Jan Reis	Craig Unruh
Orville Middendorf	Renaissance Financial Corporation	Susan Venn
Dan Middleton	Richard G. Jacobus Family Foundation Inc.	Ron & Pam Verrilli
Mid-Missouri Limestone, Inc.	Roger Riney	Kathy Vescovi
Karen Migneron	Chip & Renee Robertson	Jill Waldrop
Richard Miller	Rockbridge Rockets 4-H Clover Kids	Robert Wallace
John Miller	Rockwood Asset Management	Don & Audrey Walsworth
Miller's Professional Imaging/Mpix	Ray Romano	Walsworth Publishing Corporation
Missouri Fast Incentive Fund	Cynthia Sandberg	Audrey Walton
Missouri Foundation for Health	John Sandberg	Wasinger Daming, LLC
Missouri Orthopaedic Institute	George Sarantakis	Henry Waters
Mizzou Alumni Association	Glenn Schafer	Whelan Security
MO-FEAT	Steve Schankman	Jim & Leslie Whitaker
Jim & Sue Moody	Fred Schmidt	Richard Whiting
Geoff Moorehead	Steve & Mary Schoolman	Donna Wilkinson
Laura Morgan	Mark Schuchardt	Bill Willhite
Morgan Restaurants, Inc.	Dan Schuppan	William S. Anheuser Charitable Fund
John & Sue Murphy	Mr. & Mrs. Ken Schutte	William Woods University
Mike Murray	Scottrade Inc.	Susan Wilson
Muzzy Family Fund	SFS Architecture	Doug Wilton
My Secret Garden	Michael Shanahan, Jr.	George & Susie Wood
Natoli Engineering Company Inc.	Shanahan Family Foundation	Scott & Jan Zajac
Nestle Purina Petcare	Shelter Insurance	Tom & Carol Zychinski
Katharyn Neuner	Show Me Institute	

This alphabetic list reflects individuals who have given a gift of \$1,000 or more since 2005. Every effort has been made to provide a complete and accurate listing. We sincerely regret any omissions or errors. Please contact us if a correction of our records is needed.



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