



Research

NJCTS/Rutgers Center for Research

NJ Center for Tourette Syndrome and Associated Disorders (NJCTS), in partnership with Rutgers University's RUCDR Infinite Biologics, established the NJCTS Cell & DNA Sharing Repository in 2007 as a sharing resource of clinical and genetic data. A collaboration with Yale University and other partners helped to develop a set of uniform methods and collection tools. Four successful years into the pilot, the National Institute of Mental Health recognized the repository as a federal asset and funded its expansion. Through the establishment of the Tourette International Collaborative Genetics (TIC Genetics) study, the initiative now includes 25 collection sites around the world. The goal of the genetics study is to identify genetic factors that play a role in causing TS and associated disorders. Clinical researchers worldwide with experience in autism and TS utilize the uniform tools to collect samples and questionnaires from families and deliver them to Rutgers to be processed, stored, and shared. The study aims to identify better treatments and a cure for TS.

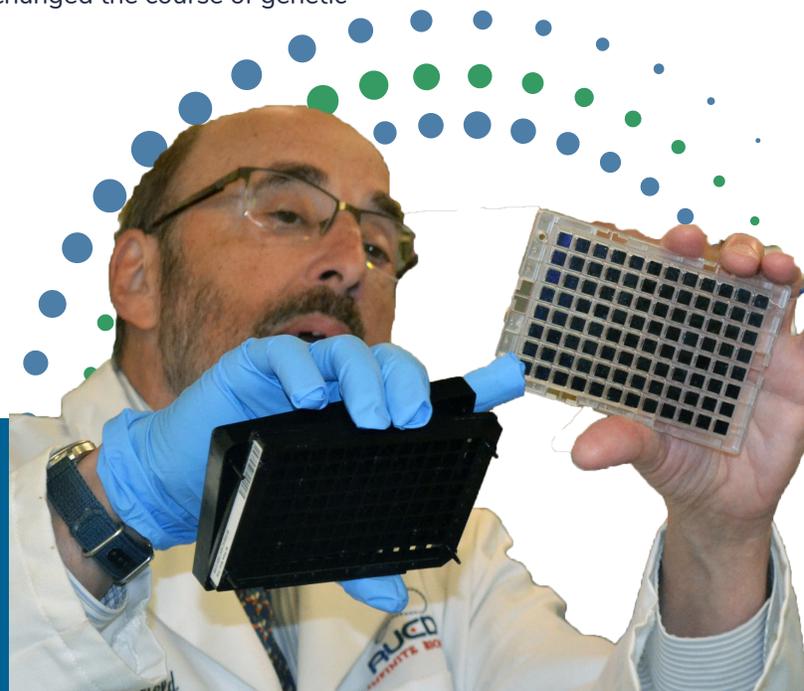
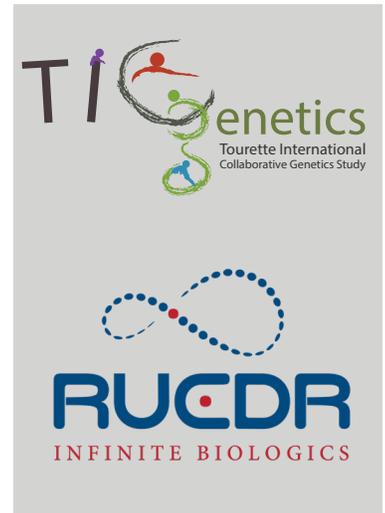
In 2017 NJCTS research partners were responsible for first-ever breakthrough research findings into the genetics of Tourette Syndrome. Less than a year later the team's second breakthrough occurred which indicated that TS is indeed an inherited disorder and, like Autism, potentially 300 – 400 genes contribute to having the disorder. These breakthroughs changed the course of genetic research into Tourette Syndrome.

Research Programs Include:

- TS gene discovery
- Study of TS disease mechanisms
- Using human data to inform the development of mouse models for TS and TS drug development
- Studying the brains of these mouse models to understand how TS manifests in the brain

All of this was made possible because individuals and families living with TS answered the call! More research needs to be done to find answers, treatments and eventually a cure for TS. Your participation is critical to making that happen. Email familystudy@biology.rutgers.edu to become part of this breakthrough research.

Learn more: www.njcts.org/research



Education. Advocacy. Research.

The NJ Center for Tourette Syndrome & Associated Disorders, Inc. (NJCTS) is the nation's first Center of Excellence for Tourette Syndrome (TS). Through partnerships and collaborations, NJCTS provides a continuum of services, support and education for families; outreach and training for medical and educational professionals; and advocacy for collaborative research for better treatments and a cure for TS.

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