Synaptopathies Clinic at Kennedy Krieger Institute

Synaptopathies are neurodevelopmental disorders that result from changes in genes that function at the synapses, the points where brain cells, also called neurons, meet and "talk" with each other. These genes and their corresponding proteins play important roles in brain development and functioning. Changes, also called mutations, in these genes can cause a spectrum of neurodevelopmental disorders, including childhood-onset epilepsy, developmental delays, cognitive difficulties, repetitive and challenging behaviors, and social and communication difficulties. The symptoms a child experiences and the severity of the disorder can vary widely.

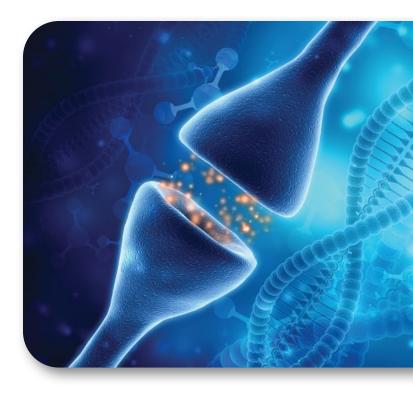
Who We Are

At Kennedy Krieger Institute's Synaptopathies Clinic, an interdisciplinary team provides comprehensive evaluations and clinical care. It is our goal to help each of our patients, and their family members, gain a better understanding of their condition and access appropriate medical and therapeutic interventions to improve their overall health and quality of life.

Who We Serve

Kennedy Krieger provides expert care for children with developmental challenges related to changes in several synaptic genes (SYNGAP1, SHANK 3, GABRB, STXBP1, GRIN, GRIA, KCN, SCN and the SLC family of genes). Symptoms may include global developmental delays, intellectual disability, autism spectrum disorder, sensory processing difficulties, disruptive behaviors and epilepsy. The severity and onset of symptoms can vary among individuals, but symptoms appear by a child's second birthday.

Symptoms alone cannot be used to diagnose synaptopathies. Genetic testing, which can be done at Kennedy Krieger, is required for diagnosis.



Our Team

Kennedy Krieger is home to a unique interdisciplinary collaboration of experts in synaptopathies. Our clinicians, research scientists and rehabilitation professionals work together to provide optimal interdisciplinary care for patients. Because synaptic dysfunction can affect many different systems in the body, treating a patient with one of these disorders often requires the collaboration of a wide range of medical specialists. Key specialists who see our patients include those working in the following fields:

- Genetics
- Epilepsy
- Neurology

- Neuropsychology
- Behavioral psychology
- Social work



Treatment Approach

Treatment is individualized and can include:

- Management of epilepsy, sleep, and gastrointestinal and feeding issues
- Support from a neuropsychologist or behavioral psychologist to manage cognitive delays and behavioral challenges
- Physical, occupational and speech therapies to manage developmental delays

Resources for Families

SynGAP Research Fund

syngapresearchfund.org/families/support/welcome-pack

SYNGAP1 Foundation

syngap1foundation.org

Phelan-McDermid Syndrome Foundation

pmsf.org/resource-library/

SCN Portal

scn-portal.broadinstitute.org

Contact Information

Synaptopathies Clinic at Kennedy Krieger Institute

For more information, contact the clinic at CFSD@KennedyKrieger.org or 443-923-2778. To schedule an appointment, please call 443-923-9400, or call toll-free at 888-554-2080. TTY users, please contact us at 443-923-2645, or dial 711 to make a Maryland Relay call.

KennedyKrieger.org

Physicians and Healthcare Professionals To make a referral, email us at CFSD@KennedyKrieger.org or call our Physician Referral Line at 443-923-9403.

Clinic Location 801 North Broadway

Baltimore, MD 21205

Mailing Address 707 North Broadway Baltimore, MD 21205

Kennedy Krieger Institute recognizes and respects the rights of employees, trainies, and patients and students, and their families. At Kennedy Krieger, we ground our care, services, training and research in treating others with respect and civility. We respect the cultural identity of every person. Kennedy Krieger does not discriminate against people based on, but not limited to, perceived or actual race, color, culture, ethnicity, national origin, age, language spoken, accent, marital status, veteran or military status, immigration status, socioeconomic status (i.e., access to resources), physical or mental disability, religion, pregnancy status, sex, sexual orientation, or gender identity or expression. We strive for equitable care for all individuals for whom we provide services, training, education and research participation. We encourage employees, trainees, and patients and students, and their families, to become active partners in the services provided by asking questions, seeking resources and advocating for their needs. Our culture of care is extended to our patients, the patients' family members and other persons served. Here, "family" refers to parents, other family members, guardians, surrogate decision-makers and healthcare agents. © 2022 Kennedy Krieger Institute 7/2022









