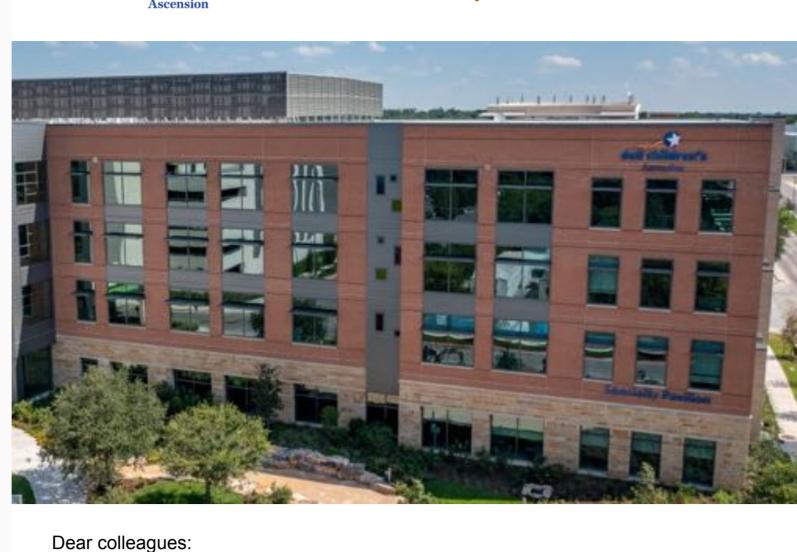
The Neurotransmitter UT Health Austin Pediatric Neurosciences at Dell Children's

Promoting Discovery and Innovation in the Pediatric Neurosciences dell children's Ascension

The University of Texas at Austin **UT Health Austin** 



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Welcome to UT Health Austin Pediatric Neurosciences at Dell Children's. This issue of

The Neurotransmitter provides a sense of the excitement surrounding our rapidly growing new program. We are committed to offering outstanding educational opportunities, promoting research and scholarly activity, and delivering exceptional multidisciplinary clinical care for all children with neurological disorders. We are always happy to hear from you. Elizabeth Tyler-Kabara, MD, PhD

Chief of Neurosurgery ECTK@utexas.edu

E. Steve Roach, MD Chief of Neurology

roache@austin.utexas.edu

BERMANS ISKANDAR, MD, PRESENTS THE INAUGURAL

TIMOTHY M. GEORGE MEMORIAL LECTURE IN PEDIATRIC



beloved pediatric neurosurgeon at Dell Children's Medical Center when he died unexpectedly at age 59 in 2019. Dr. George graduated from New York University Grossman School of Medicine before completing his neurosurgery residency at Yale University and his pediatric neurosurgery fellowship at Northwestern University. He joined the faculty of Duke University in 1996 and in 2006 moved to the then new Dell Children's Hospital. His research interests included Chiari malformation and the genetic mechanisms of neural tube defects. Tim was a superb pediatric neurosurgeon. His quiet confidence and unfailing empathy and compassion endeared him to colleagues and patients alike.

Timothy M. George, MD



## In a Frontiers in Neurology article, Duriel Hardy, MD, and colleagues take a critical look at the difficult topic of multiple sclerosis risk factors that might be modified in the pediatric population. Concern about exposure to Epstein-Barr virus, inhalation of

cow milk proteins and brain antigens). Other possible protective factors include sun

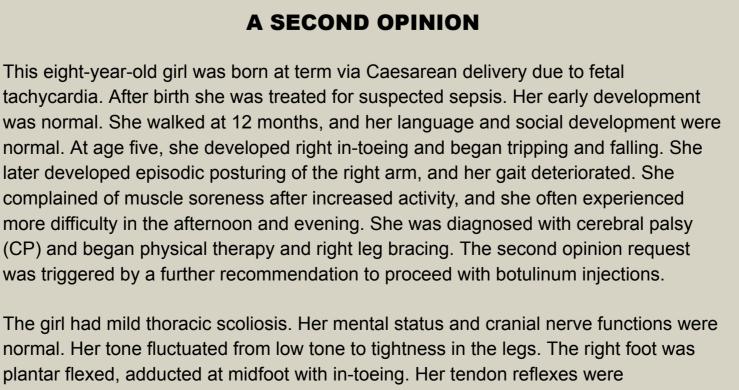
Hardy D, Chitnis T, Waubant E, Banwell B. Preventing multiple sclerosis: the pediatric

exposure and higher serum vitamin D levels. Although many of these factors are

modifiable, altering them would require extensive public health changes.

perspective. Front Neurol 2022;13:802380. doi: 10.3389/fneur.2022.802380

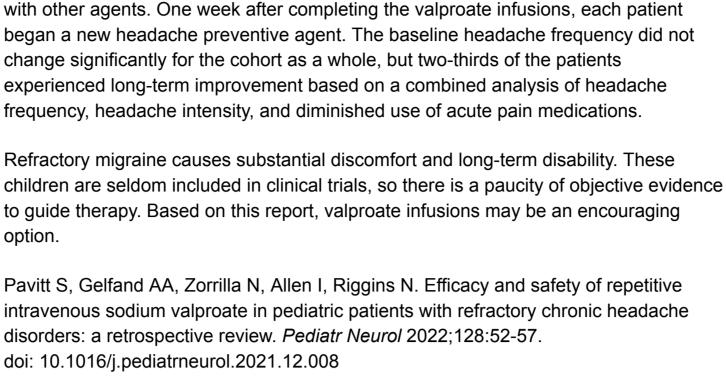
on secondary prevention with agents intended to prevent disease progression and limit the ultimate severity of neurological disability. Such disease-modifying treatments are particularly important for children, because children with multiple sclerosis have more



hyperactive in the right leg with a right Babinski sign. Her gait was unsteady and broad based, with right toe walking. She exhibited dystonia of both legs as well as intermittent

REPETITIVE VALPROATE INFUSION SHOWS PROMISE IN

REDUCING REFRACTORY CHRONIC HEADACHE PAIN



option.

**R**Annual

Patients with chronic migraine had undergone a median of seven previous migraine prevention trials, and 85% had completed one or more previous intravenous therapies

**DELL CHILDREN'S MEDICAL CENTER HOSTS THIRD ANNUAL** PEDIATRIC NEUROSCIENCE SYMPOSIUM

Pediatric practitioners care for children with a wide range of neurological disorders, but a lack of extensive training in these conditions can make managing and treating them challenging. The Practical Pediatric Neuroscience Symposium was created to enhance knowledge of common and uncommon pediatric neurological conditions, with the goal of helping providers improve care for children with these conditions. The third annual symposium, held on May 21, 2022, at Dell Children's Medical Center, featured presentations by 10 Dell Medical School faculty members within the Pediatric

Neurosciences Program. Topics ranged from primary care issues in neuromuscular

presentation provided specific techniques and evidence-based recommendations for diagnosis and management, including the roles of interprofessional teams in improving

disease to behavioral pain management for pediatric headache. Each interactive

May 21, 2022



quality of life and treatment outcomes.

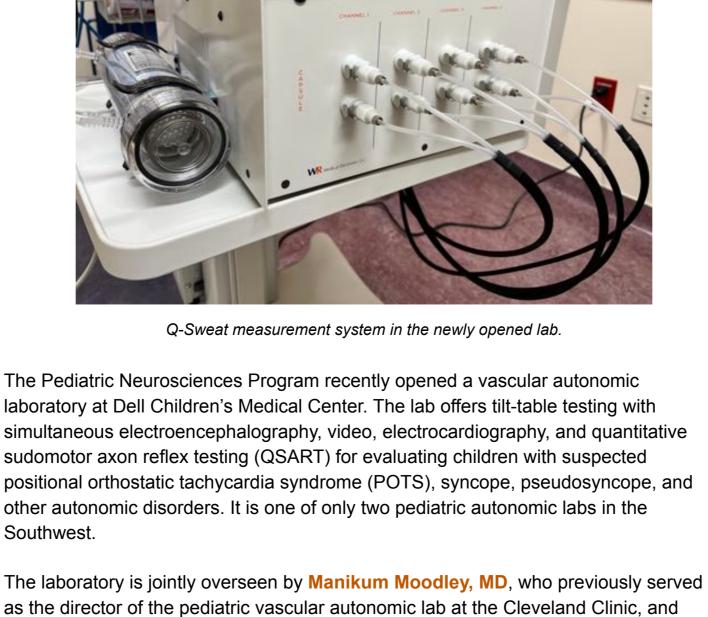


WiNterns Dignity Butts and Bella Thomas scrubbed in and ready to observe neurosurgery. Several members of our pediatric neurosciences team have embraced Women in Neuroscience (WiN), an Austin-based organization whose mission is to encourage young economically disadvantaged, first-generation, and underrepresented minority

Dave Clarke, MD, with Hepsiba Barar (left) and Whittney Barry (right), WiNterns who worked on his pediatric epilepsy project.

For additional information on WiN, see www.neurowomen.org or follow the

organization on Twitter at @helloneurowomen.



Veda Vedanarayanan, MD, who oversaw the Electromyography and Autonomic

autonomic testing or consultation, call 512-628-1855 or email program coordinator

Laboratory at the University of Mississippi Medical Center. To refer patients for

PEDIATRIC NEUROSCIENCES PROGRAM WELCOMES

UT Health Austin Pediatric Neurosciences at Dell Children's has grown

James Johnson, BSN, RN, CPN, at jejohnson@ascension.org.

SEVERAL NEW COLLEAGUES

University. **Yingchao Yuan** is senior biostatistician in the Pediatric Neurosciences Program. Yuan received his Master of Arts in statistics at the University at Albany, SUNY. Before coming to Austin, he was a researcher for the New York State Department of Health and in data analytics for the New York State Office of Alcoholism and Substance Abuse Services. Stephen Deputy, MD, Professor of Neurology at Dell

Medical School, focuses on Tourette syndrome, tics, and

degree from Northwestern University Feinberg School of Medicine in Chicago and completed residency training in

pediatric neurology at the University of California, San

Francisco. Deputy joins the Dell Medical School faculty after several years at Louisiana State University Health

Jane C. Edmond, MD, Professor and Chair of the

Medal from the American Association for Pediatric

Department of Ophthalmology at Dell Medical School and

a neuro-ophthalmologist in the Pediatric Neurosciences Program, recently received the Marshall M. Parks Bronze

Ophthalmology and Strabismus (AAPOS). Marshall M.

to children's eye care. Edmond completed her two-year term as AAPOS president in 2020. Congratulations, Dr.

Parks medals are awarded to past AAPOS presidents and other individuals who have made noteworthy contributions

student and resident teaching awards.

**OUR COLLEAGUES IN THE NEWS** 

**Edmond Receives Parks Medal From AAPOS** 

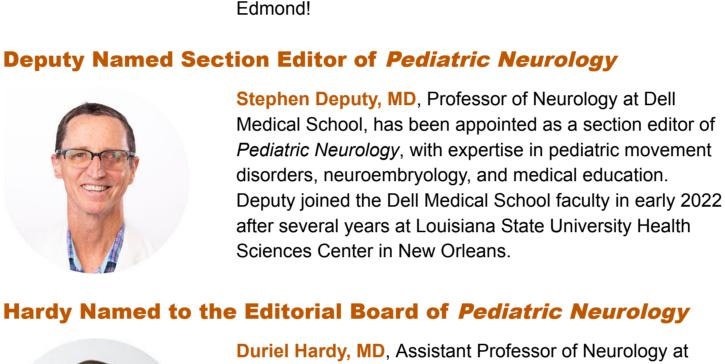
board."

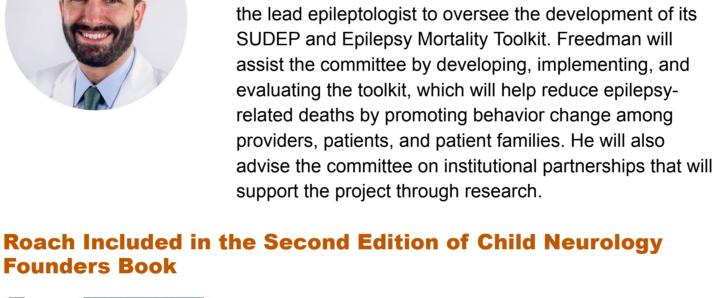
of Pennsylvania.

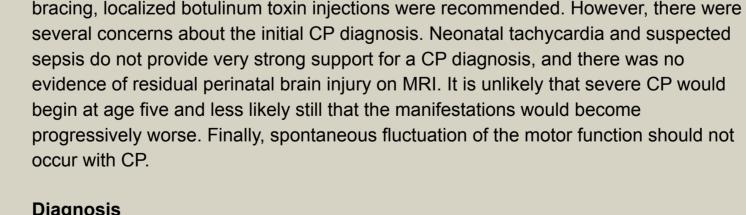
Freedman Selected to Oversee SUDEP Toolkit Development

Sciences Center in New Orleans, where he won numerous

other movement disorders. He received his medical







misdiagnosed with CP. When she failed to improve with physical therapy and leg

Based on her motor dysfunction and perinatal history, this girl was initially

A SECOND OPINION: EPILOGUE

dominant mutations tend to have milder manifestations and more variable expression. Some adults have symptom onset in the fourth decade or even later. **Additional Reading** Segawa M, Hosaka A, Miyagawa F, Nomura Y, Imai H. Hereditary progressive dystonia with marked diurnal fluctuation. Adv Neurol 1976;14:215-233.

the Dell Medical School at The University of Texas at Austin.

For additional program information: UT Health Austin Pediatric Neurosciences at Dell Children's Comprehensive Pediatric Epilepsy Program Pediatric Neurosciences Blog

**NEUROSURGERY** 

Timothy M. George, MD, was a professor of neurosurgery at Dell Medical School and a

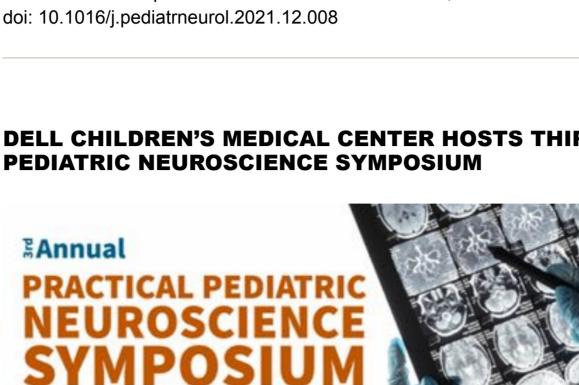
HARDY DISCUSSES PROTECTIVE FACTORS IN PREVENTING PEDIATRIC-ONSET MULTIPLE SCLEROSIS



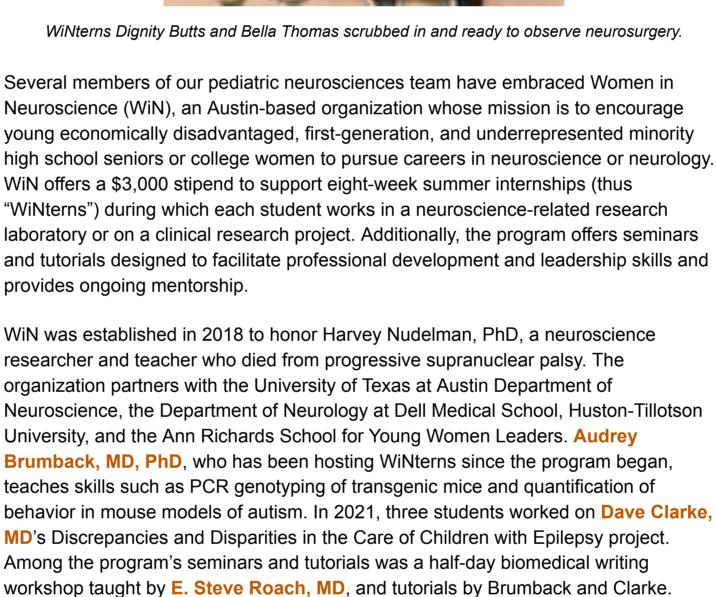
## years to accumulate lesions. What is not often discussed, however, is primary prevention strategies for multiple sclerosis. passive cigarette smoke, and exposure to other environmental toxins is bolstered by considerable statistical evidence. An increased body mass index also seems to increase the multiple sclerosis risk, albeit at a lower level. Although the studies are inconsistent, preliminary evidence suggests that breastfeeding protects against development of multiple sclerosis (possibly by avoiding molecular mimicry between

posturing of the right arm (adduction of the shoulder, flexion at the elbow, and clenching of the fist). Serum CK and thyroid function were normal. A 3T brain MRI was normal. Nerve conduction studies were normal, and electromyography showed no evidence of neuronal hyperexcitability. See below for additional discussion.

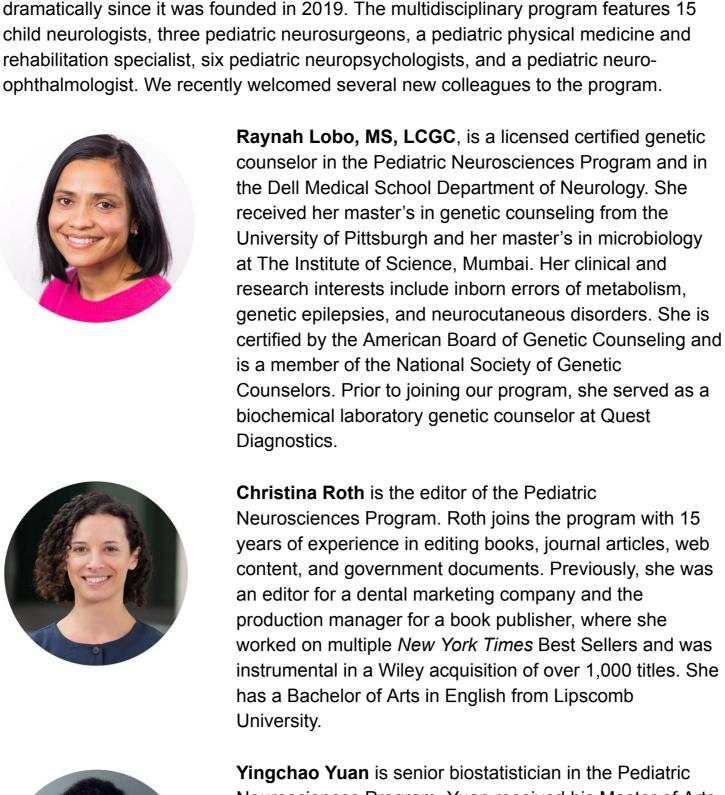
Sara Pavitt, MD, Assistant Professor of Neurology at Dell Medical School and Chief of the Pediatric Headache Center at Dell Children's, recently described the use of intravenous valproate in significantly reducing pain for children with chronic headache. Pavitt and her colleagues summarized 45 children with refractory headache disorders who completed a standardized four-day inpatient repetitive valproate infusion protocol.

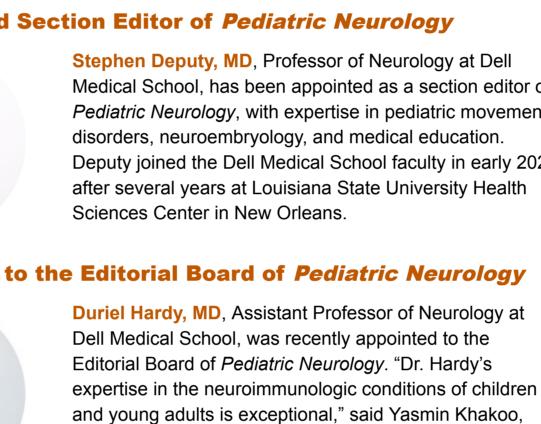


**WOMEN IN NEUROSCIENCE (WIN) PROGRAM ENCOURAGES** YOUNG WOMEN TO PURSUE NEUROSCIENCE CAREERS



**VASCULAR AUTONOMIC LAB OPENS** 





MD, Editor-in-Chief of *Pediatric Neurology*. "I look forward

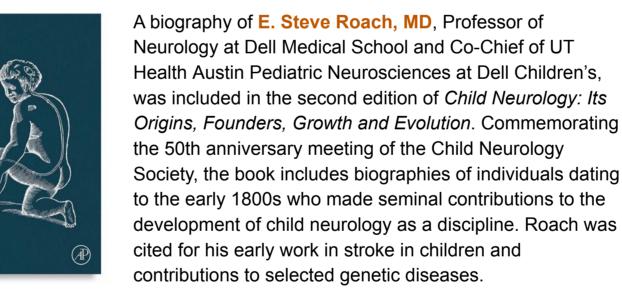
to working with him as the newest member of our editorial

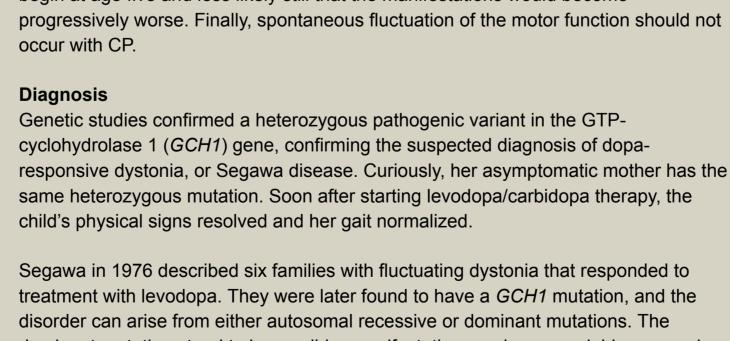
Hardy joined the Pediatric Neurosciences Program in 2021 after completing his pediatric neurology residency and a

fellowship in pediatric neuro-immunology at the Children's Hospital of Philadelphia and the Hospital of the University

Daniel Freedman, DO, Assistant Professor of Neurology

at Dell Medical School, has been selected by the Child Neurology Foundation's Project Advisory Committee as





The Neurotransmitter, 2022, Issue 2 To subscribe to *The Neurotransmitter*, email <a href="mailto:pedineurosciences@austin.utexas.edu">pedineurosciences@austin.utexas.edu</a>. Missed an issue? Access previous newsletters here. UT Health Austin Pediatric Neurosciences at Dell Children's is a clinical partnership between Dell Children's Medical Center and UT Health Austin, the clinical practice of

Wijemanne S, Jankovic J. Dopa-responsive dystonia—clinical and genetic

heterogeneity. Nat Rev Neurol 2015;11:414-424.

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