

Karen Horton Harum, M.D.

Neurodevelopmental Pediatrician

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Birthplace: Nashville, TN
DOB: January 26, 1960
Children: James Davidson Harum (10/31/91)
Christian Michael Harum (12/15/93)

2006- present CEO, Clinic for Special Children

Previous Appointments

2001-2006 Clinical Assistant Professor
Department of Pediatrics
Eastern Carolina School of Medicine
Brody Medical Sciences Building
600 Moye Boulevard
Greenville, NC 27858-4354

1999-2001 Instructor
Neurology and Developmental Medicine
Kennedy Krieger Institute
Department of Pediatrics
The Johns Hopkins University School of Medicine
707 N. Broadway
Baltimore, MD 21205
410-502-9000

Professional Training

1998-1999 Post Doctoral Fellow
National Research Service Award in Neuroscience
Neurology and Developmental Medicine
Kennedy Krieger Research Institute
The Johns Hopkins University School of Medicine
707 N. Broadway, Baltimore, MD 21205

1995-1998 Fellow
 Neurodevelopmental Pediatrics
 Kennedy Krieger Institute
 Department of Pediatrics
 The Johns Hopkins University School of Medicine
 707 N. Broadway, Baltimore, MD 21205

1988-1991 Resident
 Department of Pediatrics
 University of Miami School of Medicine
 Jackson Memorial Hospital
 1611 NW 12 Ave., R131
 Miami, FL 33136

1988. Intern
 Department of Pediatrics
 University of Florida School of Medicine
 Shands Teaching Hospital
 Box #100296
 Gainesville, FL 32610

1987 Doctor of Medicine
 University of Miami School of Medicine
 P.O. Box 016960 (R128)
 Miami, FL 33136

1983 Bachelor of Science in Chemistry
 Stetson University
 Deland, FL 32720-3781

Certifications

2023 Certificate in Neurodevelopmental Disabilities, American Board
 of Psychiatry and Neurology

2001, 2018 Certificate in Neurodevelopmental Disabilities, American Board of
 Pediatrics

1991, 1998, 2005, 2016 Certificate in General Pediatrics, American Board of Pediatrics

1988 National Board of Medical Examinations

2007 National Board of Diving and Hyperbaric Medical
 Technology

1999, 2001,
 2022 Cardiopulmonary Resuscitation

1992, 2001

Neonatal Advanced Life Support

1991, 2001

Pediatric Advanced Life Support

Medical Licensure

1990 Florida (ME 57878) (inactive)
1991 North Carolina (34344)
1999. Maryland (D0054368) (inactive)

Previous Employment

1993-1995 Pediatrician
Developmental Evaluation Center
1405 S. Glenburnie Road, New Bern, NC 28562

1991-1993 Pediatrician
Onslow Pediatric Associates
51 Office Park Dr., Jacksonville, NC 28546

1984-1986 Research Assistant
Bascom Palmer Eye Institute
PO Box 016880, Miami, FL 33101

Awards

1999. National Research Service Award in Neuroscience
1978 College scholarship in oboe performance at Stetson University
1982 Beta Beta Beta Biological Honor Society
1983. Chemistry Honor Society

Professional Organizations

1999 American Association on Mental Retardation
1998 American Academy of Cerebral Palsy and Developmental Medicine
1995 Kennedy Fellows Association

Publications

Peer-Reviewed Articles

Johnston MV, Alemi L, **Harum KH**. Cognitive Function, Memory and Transcription Factors. *Pediatric Research*, 2002, 53(3):369-374.

Harum KH, Alemi L, Johnston MV. Cognitive impairment in Coffin-Lowry Syndrome correlates with reduced RSK2 activation. *Neurology*, 2001, 56:207-14.

Harum KH, Hoon AH, Casella JF. Factor V Leiden: a risk factor for cerebral palsy. *Developmental Medicine and Child Neurology*, 1999, 41:781-785.

Harum KH, Hoon AH, Kato GJ, Casella JF, Breiter SN, Johnston MV. Homozygous factor V mutation as a genetic cause of perinatal thrombosis and cerebral palsy. *Developmental Medicine and Child Neurology*, 1999, 41:777-780.

Johnston MV, **Harum KH**. Recent Progress in the Neurology of Learning: Memory molecules in the developing brain. *Journal of Developmental and Behavioral Pediatrics*, 1999, 21(1):50-56.

Harum K, Johnston MV. Developmental Neurobiology: New Concepts in Learning, Memory and Neuronal Development. *Mental Retardation and Developmental Disabilities Research Reviews*, 1998, 4:20-25.

Goodman BK, Shaffer LG, Rutberg J, Leppert M, **Harum K**, Gagos J, et al. Inherited Duplication Xq27-qter at Xp22.3 in Severely Affected Males: Molecular Cytogenetic Evaluation and Clinical Description in 3 Unrelated Families. *American Journal of Medical Genetics*, 1998, 80:377-384.

Doheny K, McDermid H, **Harum KH**, Thomas G, Raymond G. Cryptic Terminal Rearrangement of Chromosome 22q13.32 Detected by FISH in Two Unrelated Patients. *Journal of Medical Genetics*. 1997, 34:640-644.

Chapters

Harum, KH. Coffin-Lowry Syndrome Synopsis. National Organization for Rare Disorders and Lippincott publishers. April 16, 2001.

Johnston MV, Nishimura A, **Harum KH**, Pekar J, Blue ME. Sculpting the Developing Brain. In: *Advances in Pediatrics*, 2001, Mosby, Inc. 48:1-38 .

Harum, KH. Mental Retardation. In: Lorenzo NY, Lutsep H, eds. *Neurology*. www.emedicine.com/neurology/mental retardation, 2006.

Abstracts

Harum, KH. CK-BB: A Novel biomarker in Autism Spectrum Disorders. Poster presentation to the *International Society for Autism Research*, Spring, 2019, Montreal Canada.

Harum, KH. ADHD: Where's the Science? Platform presentation to Pediatrics Day of the *Eastern Carolina University School of Medicine*, Greenville, NC, March 30, 2001.

Harum, KH. Pathways to Memory. Platform presentation to the *American Association on Mental Retardation*, Eastern regional meeting, Annapolis, MD, November 8, 1999 and at the national meeting in Washington, DC, June 1, 2000.

Harum, KH. Defective Growth Factor to Transcription Factor Signaling in Coffin Lowry Syndrome. Platform presentation to the *Society for the Study of Behavioral Phenotypes*, November 1998.

Harum, KH, Hoon AH, Reinhardt EM, Kato GJ, Johnston MV. Factor V Leiden Mutation, Thrombophilia and Cerebral Palsy: A Case Report. (Abstract presentation to the *American Academy of Cerebral Palsy and Developmental Medicine*, September 1998.)

Harum KH, Johnston MV, Ginty D. Kinase Activity: Phenotype Correlation in Coffin-Lowry Syndrome. (Abstract presentation to the *Eastern Society for Pediatric Research*, February, 1998.)

Goodman BK, Leppert M, **Harum K**, Rutberg J, Thomas GH, Geraghty MT. Duplication Xq27-qter at Xp22.3 in a Severely Affected Child and his Phenotypically Normal Mother. (Poster presentation at the *American Society of Human Genetics*, October, 1997.)

Tucker GS, **Horton (Harum) K**. Bruch's Membrane and Its Collagen Elements. (Poster presentation at the *Eastern Student Research Forum*, March, 1985 and to the *Association for Research in Vision and Ophthalmology*, April, 1985.)