



## Randi J. Hagerman, M.D.

### Research/Academic Interests

Dr. Hagerman is medical director of the UC Davis MIND Institute and director of the Fragile X Research and Treatment Center. She has more than 20 years of experience in the field of neurodevelopmental disorders and is an internationally respected leader in fragile X research including fragile X syndrome, a genetic condition that is the leading cause of inherited intellectual disability and the leading single-gene cause of autism.

Dr. Hagerman, her husband, Dr. Paul Hagerman, and their research team are the discoverers of Fragile X-associated Tremor/Ataxia Syndrome (FXTAS), a late-onset neurodegenerative disorder. Randi Hagerman conducts clinical research on individuals with fragile X-associated disorders, including children and adults with fragile X syndrome, adult males with FXTAS, and women with fragile-X related conditions, such as fragile X-associated primary ovarian insufficiency (FXPOI).

Dr. Hagerman also conducts research that bridges the association between autism and fragile X syndrome. Her main area of research is on targeted treatments for neurodevelopmental disorders, including fragile X syndrome, autism, premutation disorders and Angelman syndrome.

Dr. Hagerman has written more than 200 peer-reviewed articles and numerous book chapters on neurodevelopmental disorders, and has written several books on fragile X. They include a 3rd Edition of *Fragile X Syndrome: Diagnosis, Treatment, and Research* which was published in 2002 by Johns Hopkins University Press, and *Neurodevelopmental Disorders: Diagnosis and Treatment*, published by Oxford University Press in 1999.

She serves on the editorial boards of the publications *Journal of Developmental and Behavioral Pediatrics* and *Molecular Autism*, and has worked to establish fragile X clinical programs and research programs throughout the world.

The National Fragile X Association in 2004 honored Randi and Paul Hagerman for their work on FXTAS, by establishing the Hagerman Award. It honored Randi Hagerman in 2008 with a Lifetime Achievement Award.

**Title** Medical Director, UC Davis MIND Institute

Professor and Endowed Chair in Fragile X Research

**Specialty** Pediatric Child Development & Behavior, Autism, Neurodevelopmental Disorders

**Department** [Pediatrics](#)

**Division** Child Development and Behavior

**Center/Program Affiliation** [UC Davis Children's Hospital](#)



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### [UC Davis MIND Institute](#)

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<b>Email</b>	<a href="mailto:Julie.morcillo@ucdmc.ucdavis.edu">Julie.morcillo@ucdmc.ucdavis.edu</a>
<b>Languages</b>	Spanish
<b>Education</b>	M.D., F.A.A.P., Stanford University School of Medicine, Palo Alto, California, 1975 B.S., UC Davis, Davis, California, 1971
<b>Internships</b>	Stanford University School of Medicine, Palo Alto, California, 1975-76
<b>Residency</b>	Stanford University School of Medicine, Palo Alto, California, 1976-77 University of California, San Diego, La Jolla, California, 1979-80
<b>Fellowships</b>	University of California, San Diego, La Jolla, California, 1978-80
<b>Board Certifications</b>	American Board of Pediatrics, 1981
<b>Professional Memberships</b>	American Academy of Pediatrics American Society of Human Genetics International Association for the Scientific Study of Intellectual Disabilities National Fragile X Foundation Scientific Council of L'Association Mosaiques (Paris) Society for the Scientific Study of Behavioral Phenotypes Society of Developmental and Behavioral Pediatrics Western Society of Pediatric Research
<b>Honors and Awards</b>	Fellow, International Association for the Scientific Study of Intellectual Disabilities UC Davis Endowed Chair in Fragile X Research, 2005 to present Distinguished Professor, UC Davis, 2013 Distinguished Alumni Award, UC Davis College of Biological Sciences, 2011 Princeton Lecture Series Fellowship, 2010 Lifetime Achievement Award, National Fragile X Foundation, 2008 UC Davis Distinguished Scholarly Public Service Award, 2005 UC Davis Dean's Excellence in Mentoring Award, 2005



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Namesake (with Paul Hagerman), Hagerman Award for Research in FXTAS, International Association for the Study of Intellectual Disability, 2004

IASSID Distinguished Achievement Award for Scientific Literature, 2004

Bonfils-Stanton Foundation Award for Science including Medicine, 1993

Jerrett Cole Award, National Fragile X Foundation, 1992

### Select Recent Publications

Yang J-C, Simon C, Niu Y-Q, Bogost M, Schneider A, Tassone F, Seritan A, Grigsby J, Hagerman PJ, Hagerman RJ, Olichney JM. (2013) Phenotypes of hypofrontality in older female fragile X premutation carriers. *ANN NEUROL* 74:275-283.

Basuta K, Lozano R, Schneider A, Yrigollen C, Hessler D, Hagerman R, Tassone F. (2013) A family with two female siblings with compound heterozygous FMR1 premutation alleles. *Clin Genet Jun 20* doi: 10.1111/cge.12218. [Epub ahead of print].

Wang JY, Hessler D, Schneider A, Tassone F, Hagerman RJ, Rivera SM. (2013) Fragile X-associated tremor/ataxia syndrome (FXTAS): influence of the FMR1 gene on motor fiber tracts in males with normal and premutation alleles. *JAMA Neurol Aug 1; 70(8):1022-9.*

Hagerman R, Hagerman P. (2013) Advances in clinical and molecular understanding of the FMR1 premutation and fragile X-associated tremor/ataxia syndrome (FXTAS). *Lancet Neurol* 12(8):786-98.

Dziembowska M, Pretto DI, Janusz A, Kaczmarek L, Leigh MJ, Gabriel N, Durbin-Johnson B, Hagerman RJ, Tassone F. (2013) High MMP-9 activity levels in fragile X syndrome are lowered by minocycline. *Am J Med Genet A* 161A(8):1897-903.

Schneider A, Ligsay A, Hagerman RJ. (2013) Fragile X syndrome: An aging perspective. *Dev Disabil Res Rev* 18(1):68-74.



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Schneider A, Leigh MJ, Adams P, Nanakul R, Chechi T, Olichney J, Hagerman R, Hessler D. (2013) Electrocortical changes associated with minocycline treatment in fragile X syndrome. *J Psychopharm* 27(10):956-963. doi: 10.1177/0269881113494105.

Au J, Akins R, Berkoqitz-Sutherland L, Tang HT, Chen Y, Boyd A, Tassone F, Nguyen D, Hagerman R. (2013) Prevalence and risk of migraine headaches in adult fragile X premutation carriers. *Clin Genet*. Feb 1. doi: 10.1111/cge.12109 [Epub ahead of print].

Wang JY, Hagerman RJ, Rivera SM. (2013) A multimodal imaging analysis of subcortical gray matter in fragile X premutation carriers. *Mov Disord*. May 6 doi: 10.1002/mds.25473. [Epub ahead of print].

Leigh MJ, Nguyen DV, Mu Y, Winarni TI, Schneider A, Chechi T, Polussa J, Doucet P, Tassone F, Rivera SM, Hessler D, Hagerman RJ. (2013) A randomized double-blind, placebo-controlled trial of minocycline in children and adolescents with fragile X syndrome. *J Dev Behav Pediatr*. 34(3):147-155.

Kover ST, McDuffie AS, Hagerman RJ, Abbeduto L. (2013) Receptive Vocabulary in Boys with Autism Spectrum Disorder: Cross-sectional Developmental Trajectories. *J Autism Dev Disord*. Apr 16. [Epub ahead of print].

Hagerman R, Lauterborn J, Au J, Berry-Kravis E. (2012) Fragile X syndrome and targeted treatment trials. *Results Probl Cell Differ*. 54:297-335.

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