
BIOGRAPHICAL SKETCH

NAME: Malow, Beth Ann

eRA COMMONS USER NAME: BMALOW

POSITION TITLE: Professor of Neurology and Pediatrics; Burry Chair in Cognitive Childhood Development

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Northwestern University, Evanston, IL	BS	06/1984	Medical Science
Northwestern University, Chicago, IL	MD	06/1986	Medicine
School of Public Health, University of Michigan, Ann Arbor, MI	MS	04/1997	Clinical Research

A. Personal Statement

For this proposal, I will provide expertise on the interrelationship between sleep and pediatric gastrointestinal disease. I am uniquely qualified for this role given my directorship of Vanderbilt's Sleep Division and Sleep Research Core. I also serve as the Associate Director of Vanderbilt's Clinical Research Center, and as Principal Investigator (PI) for two networks related to neuropsychiatric disease, Vanderbilt's Autism Speaks Autism Treatment Network (AS ATN) and Vanderbilt's Network for Excellence in Neuroscience Clinical Trials (NeuroNEXT). I have a Master's Degree in Clinical Research Design and Statistical Analysis from the University of Michigan.

B. Positions and Honors

1986-1987 Research Associate, Burke Rehabilitation Center, Cornell University, White Plains, New York
1987-1988 Intern, Beth Israel Medical Center, New York, New York
1988-1991 Resident, Harvard-Longwood Neurological Training Program, Boston, Massachusetts
1991-1994 Postdoctoral Fellow, Clinical Neurophysiology, National Institutes of Health, Bethesda, Maryland
1994-2001 Assistant Professor of Neurology, Department of Neurology, University of Michigan
2001-2003 Associate Professor of Neurology, Department of Neurology, University of Michigan, Ann Arbor, Michigan (with tenure)
2003-2008 Associate Professor of Neurology and Division Chief, Sleep Disorders, Department of Neurology, Vanderbilt University, Nashville, Tennessee (with tenure)
2007-Pres Professor of Neurology and Division Chief, Sleep Disorders, Department of Neurology, Vanderbilt University, Nashville, Tennessee (with tenure)
2003-Pres Medical Director, Vanderbilt Sleep Disorders Center, Vanderbilt University, Nashville, Tennessee
2003-Pres Investigator, Vanderbilt Kennedy Center for Research on Human Development, Vanderbilt University, Nashville, Tennessee
2004-Pres Associate Director, Vanderbilt Clinical Research Center, Vanderbilt University, Nashville, Tennessee
2005-Pres Director, Vanderbilt Sleep Research Core, Vanderbilt University, Nashville, Tennessee
2010-Pres Professor of Pediatrics (Secondary Appointment)
2011-Pres Burry Chair in Cognitive Childhood Development, Department of Pediatrics

Honors

1985	Alpha Omega Alpha, Northwestern University
2002	Elected Member, American Neurological Association (ANA)
2007, 09, 10	Professional Research Consultants (PRC) Five Star Customer Service Award for Excellence in Quality of Physician Care (top 10% of physicians nationally)
2008	Health Care Provider Award, Mayor's Advisory Committee for People with Disabilities
2009	Pfizer Visiting Professorship in Neurology
2010	Robert Haslam Lectureship in Pediatrics, Hospital for Sick Children, Toronto
2012	Sleep Science Award, American Academy of Neurology

Experience

1996-2003	Clinical Research Subcommittee, American Academy of Neurology (AAN)
1998-2003	Research Committee, American Academy of Sleep Medicine
2000-2003	Scientific Program Subcommittee, Sleep Disorders Topic Chair, AAN
2001-Pres.	Ad-hoc Reviewer, NIH-NINDS Clinical Trials Study Section
2003-2005	Science Committee, AAN
2008-Pres	Chair, ANA/NINDS Career Development Symposium
2009	NIMH Review Panel for ARRA Projects in Autism Spectrum Disorders
2012	Scientific Program Committee, International Meeting for Autism Research
2014	Presenter, IACC Workshop on Under-Recognized Co-occurring Conditions
2015-Pres	Tennessee Governor's Foundation on Health and Wellness, Council on Children and Youth
2015-Pres	Tennessee Legislative Task Force on Autism Spectrum Disorders

C. Selected Peer-Reviewed Publications (Selected from 90 peer-reviewed publications)

1. Malow BA, Marzec ML, McGrew SG, Wang L, Henderson LM, Stone WL. Characterizing sleep in children with autism spectrum disorders: A multidimensional approach. *SLEEP* 2006;29(12): 1563-1571. PMID: 17252887*
2. McGrew SG, Malow BA, Henderson L, Wang L, Song Y, Stone WL. A developmental and behavioral questionnaire for autism spectrum disorders. *Pediatric Neurology* 2007; 37(2): 108-116. PMID: 17675025*
3. Malow BA, Foldvary-Schaefer N, Vaughn BV, Selwa LM, Chervin RD, Weatherwax KJ, Wang L, Song Y. Treating obstructive sleep apnea in adults with epilepsy: A randomized pilot trial. *Neurology* 2008; 71(8):572-7.*
4. Andersen IM, Kaczmarek J, McGrew SG, Malow BA. Melatonin for insomnia in children with autism spectrum disorders. *Journal of Child Neurology* 2008; 23(5): 482-5. PMID: 18182647*
5. Malow BA, Crowe C, Henderson L, McGrew S, Wang L, Song Y, Stone WL. A Sleep habits questionnaire for children with autism spectrum disorders. *Journal of Child Neurology* 2009; 24(1):19-24. PMID: 19168814*
6. Reed HE, McGrew SG, Artibee K, Surdyka K, Goldman SE, Frank K, Wang L, Malow BA. Parent-based sleep education workshops in autism. *Journal of Child Neurology* 2009;24(8):936-45. PMID: 19491110 PMC3786206
7. Goldman SE, Surdyka K, Cuevas R, Adkins K, Wang L, Malow BA. Defining the sleep phenotype in children with autism. *Dev Neuropsychol.* 2009 Sep;34(5):560-73. PMID: 20183719 PMC2946240
8. Leu RM, Beyderman L, Botzolakis EJ, Surdyka K, Wang L, Malow BA. Relation of melatonin to sleep architecture in children with autism. *J Autism Dev Disord.* 2010 Aug 4. PMID: 20683768 PMC3746009
9. Goldman SE, Richdale AL, Clemons T, and Malow BA. Sleep behaviors in autism spectrum disorders – Variations in age from early childhood through adolescence. *J Autism Dev Disord.* 2012 42(4): 531-538. PMID: 21538171***
10. Malow BA, Adkins KW, McGrew SG, Wang L, Goldman SE, Fawkes D, Burnette C. Melatonin for sleep in children with autism: A controlled trial examining dose, tolerability, and outcomes. *Journal of Autism and Developmental Disorders* 2012;42(8):1729-1737. PMID 23754339; PMC3368078
11. Malow BA, Byars K, Johnson K, Weiss S, Bernal P, Goldman SE, Panzer R, Coury D, Glaze DG. A practice pathway for the identification, evaluation and management of insomnia in children and adolescents with autism spectrum disorders. *Pediatrics.* 2012;130 Suppl 2:S106-24. PMID 23118242***

12. Adkins KW, Molloy C, Weiss SK, Reynolds A, Goldman SE, Burnette C, Clemons T, Fawkes D, Malow BA. Effects of a standardized pamphlet on insomnia in children with autism spectrum disorders. *Pediatrics* 2012; 130 Suppl 2:S139-44. PMID: 23118244**
13. Robinson AA, Malow BA. Gabapentin shows promise in treating refractory insomnia in children. *J Child Neurol* 2012 Oct 30 [Epub ahead of print.] PMID 23112238***
14. Malow BA, Adkins KW, Reynolds A, Weiss SK, Loh A, Fawkes D, Katz T, Goldman SE, PhD, Madduri N, Hundley R, Clemons T. Parent-based sleep education for children with autism spectrum disorders. *Journal of Autism and Developmental Disorders* 2014; 44(1):216-28. PMID 23754339**
15. *Fawkes DB, Malow BA, Weiss SK, Reynolds A, Loh A, Adkins K, Wofford D, Wyatt AD, Goldman SE. Conducting actigraphy research in children with neurodevelopmental disorders-A practical approach. *Behavioral Sleep Medicine* 12:1–16.**

*accepted for publication before April 2008 requirement for PMCID numbers

PMCID in progress *not NIH-supported

D. Research Support

Ongoing Research Support

NIH/NINDS 1 U10 NS077318 Malow (PI) 09/30/2011- 08/31/2018

Vanderbilt Site for Network of Excellence in Neuroscience Clinical Trials

The major goal of this project is to establish a site for neuroscience clinical trials at Vanderbilt.

Autism Speaks Malow (PI) 01/01/2011 – 08/31/2017

Autism Treatment Network Clinical Treatment Center

The major goal of the project is to establish an Autism Treatment Network site at Vanderbilt to develop standards of care for the medical management of children with autism spectrum disorders.

Role: Site PI and Sleep Specialist. Dr. Malow also is the co-chair of the AS ATN sleep workgroup.

Meharry-Vanderbilt Community Engagement Research Core Malow (PI) 04/01/2015-09/30/2016

Parent-Based Sleep Education in Autism: A Community-Academic Research Partnership

The major goal of this project is to pilot parent sleep education in a community practice.

NIH/NCATS 2 UL1 TR00445-05 (PI: Dr. Gordon Bernard) 06/27/2012-05/31/2017

Clinical and Translational Science Award

This grant establishes the Vanderbilt Institute for Clinical and Translational Research (VICTR)

Role: Co-Investigator (Vanderbilt CRC Associate Director)

Health Resources and Services Administration Kuhlthau (PI) 09/01/2015 – 08/31/2020

Autism Intervention Research Network on Physical Health (AIR-P)

The major goal of this project is to support guideline development within the Autism Treatment Network nationally and at the Vanderbilt site

Role: Site Co-PI and Sleep Specialist. Dr. Malow has led the development of a guideline/algorithm to evaluate insomnia in children with autism and is working to disseminate the algorithm at ATN sites.

Simons Foundation/Nancy Lurie Marks Foundation Spence (PI) 01/01/2014-9/30/2015

Treatment of Children With Autism Spectrum Disorders and Epileptiform EEG With Divalproex Sodium

The major goal of this project is to determine the effect of divalproex sodium on epileptiform activity, behavior, and cognition in children with autism spectrum disorders.

Role: Site PI

Neurim Pharmaceuticals Malow (site PI) 10/01/13-present

Randomized, Placebo-Controlled Study to Investigate the Efficacy and Safety of Circadin® To Alleviate Sleep Disturbances in Children with Neurodevelopmental Disabilities NEU CH 7911

The major goal of this project is to test Circadin® in children with neurodevelopmental disorders and insomnia.

Department of Defense Idea Development Award Cheak-Zamora (PI) 09/30/2014-09/29/2017
Improving Healthcare Transition Planning and Health-Related Independence for Youth with ASD and their Families
The major goal of this project is to improve the transition to adulthood in those with autism spectrum disorders

Completed Research Support

Autism Speaks Clinical and Translational Research Award 02/01/2012-07/31/2015
Characterization of the Sleep Phenotype in Adolescents and Adults with Autism Spectrum Disorder
The major goal of this project is to define the sleep phenotype in adolescents and adults with autism.
Role: Co-I (Goldman, PI, until 6/14); Principal Investigator (6/14-present)

Organization for Autism Research Loring (PI) 01/02/2013 - 12/31/2014
Sleep Education Program for Adolescents with Autism Spectrum Disorders
The major goal of this project is to provide sleep education to adolescents with autism and insomnia.
Role: Co-Investigator

Health Resources and Services Administration Perrin (PI) 03/01/2009 – 08/31/2014
Autism Intervention Research Network on Physical Health (AIR-P)
Subcontract for Parent-Based Sleep Education Program for Children with Autism Spectrum Disorders
The major goal of this project is to develop and test a multicenter parent sleep education program for children with autism

Organization for Autism Research Loring (PI) 01/02/2013 - 12/31/2014
Sleep Education Program for Adolescents with Autism Spectrum Disorders
The major goal of this project is to provide sleep education to adolescents with autism and insomnia.
Role: Co-Investigator

NIH/NHLBI RO1-HL079937-05 DeBaun (PI) 09/01/2010 – 08/31/2014
Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia
The major goal of this project is to examine the role of asthma and sleep-related breathing on morbidity in children with sickle cell disease.
Role: Co-investigator and Director, Sleep Reading Center. Dr. Malow provides centralized scoring of sleep studies for this multisite trial.

NIH/NCRR 1 UL1 RR024975-01 Bernard (PI) 10/01/2007 – 09/30/2012
Clinical and Translational Science Award
This is an NCRR grant to support Vanderbilt Institute of Clinical and Translational Research. Dr. Malow directs the Vanderbilt Sleep Research Core and is Associate Director of the General Clinical Research Center.

NIH/NCRR UL1 Malow (Project Director) 09/30/2009 – 05/31/2012
Measuring Sleep in Autism: Use of Wireless, Comfortable, and Home-Based Tools

R01HD059253 Malow (PI) 04/01/2008 - 03/31/2011
NIH/NICHHD
Melatonin for Sleep in Children with Autism: Safety, Tolerability, and Dosing
The major goal of this project is to study the dose-response, including pharmacokinetics in relation to polysomnography, of melatonin in children with autism spectrum disorders.
ARRA Administrative Supplement to expand pharmacokinetic studies