

**CURRICULUM VITAE**  
**University of Pittsburgh**  
**School of Medicine**

**BIOGRAPHICAL**

Name:	Ronald E. Dahl	Birth Place:	Bradford, Pennsylvania
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Business Address:	University of Pittsburgh School of Medicine Western Psychiatric Institute & Clinic 3811 O'Hara Street, Loeffler 320 Pittsburgh, PA 15213	E-Mail Address:	dahlre@upmc.edu
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Education and Training

Undergraduate

1975 - 1979	Pennsylvania State University College of Science University Park, PA	B.S. - 1979	Biophysics
1975 - 1979	Pennsylvania State University College of Liberal Arts University Park, PA	B.A. - 1979	General Arts & Sciences

Graduate

1979 - 1984	University of Pittsburgh School of Medicine Pittsburgh, PA	M.D. - 1984	Medicine
1982 - 1983	Western Psychiatric Institute & Clinic Pittsburgh, PA	Research Fellowship Sleep/Neuroendocrinology	David Jarrett, M.D., Ph.D. Director

Post Graduate

1984 - 1987	Duke University Medical Center Department of Pediatrics Durham, NC	Pediatric Residency	Samuel L. Katz, M.D. Chairman
1987 - 1988	Western Psychiatric Institute & Clinic Pittsburgh, PA	Sleep Medicine Training	Charles F. Reynolds, III, M.D. Director

## APPOINTMENTS AND POSITIONS

### ACADEMIC:

January 2004 - Present	University of Pittsburgh School of Medicine	Staunton Professor of Psychiatry and Pediatrics
January 2003 - Present	University of Pittsburgh School of Medicine Pittsburgh, PA	Professor of Psychiatry and Pediatrics
January 2006 - Present	University of Pittsburgh School of Arts and Sciences Pittsburgh, PA	Professor of Psychology
July 1993 - December 2002	University of Pittsburgh School of Medicine Pittsburgh, PA	Associate Professor of Psychiatry and Pediatrics
July 1987 - June 1993	University of Pittsburgh School of Medicine Pittsburgh, PA	Assistant Professor of Psychiatry and Pediatrics
October 1988 - Present	Western Psychiatric Institute & Clinic Pittsburgh, PA	Director, Child and Adolescent Sleep/Neurobehavioral Laboratory
June 1997 - 2004	Western Psychiatric Institute & Clinic Pittsburgh, PA	Director Research Track Residency Training Program
June 2000 - Present	Western Psychiatric Institute & Clinic Pittsburgh, PA	Co-Director Triple Board Residency Training Program
November 1987 - September 1991 and June 1997 - June 1999	Western Psychiatric Institute & Clinic Pittsburgh, PA	Director, Pediatric Medical Services

## CERTIFICATION AND LICENSURE

### SPECIALTY CERTIFICATION:

American Board of Pediatrics	1989
American Board of Sleep Medicine	1989

### MEDICAL OR OTHER PROFESSIONAL LICENSURE:

North Carolina Board of Medical Examiners	North Carolina	1985
Pennsylvania Board of Medical Examiners	Pennsylvania	1985

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

American Academy of Pediatrics (Fellow)	1994
International Society for Research in Child and Adolescent Psychopathology	1992
Society for Adolescent Medicine	1989
American Academy of Sleep Medicine (Fellow)	1990
Society of Biological Psychiatry	1994
Society for Research in Child Development	1995
International Society for Developmental Psychobiology	1997
Society for Research on Adolescence	2001
Sleep Research Society	2003
New York Academy of Sciences (Fellow)	2003

**HONORS**

Outstanding Teacher Award, Child Psychiatry	1993
NIH Independent Scientist Award	1996 - 2001 2001 - 2006
Core Member, MacArthur Foundation Research Network on Development and Psychobiology	1998 - 2001
Core Member, Robert Wood Johnson Foundation Research Network on Etiology of Tobacco Dependence	1999 - 2004
Member of NIH Initial Review Group BBBP-6/CPDD	2000 - 2004
Erskine Fellowship-University of Canterbury-New Zealand	2001
James Whitcomb Riley Award	2001
NIMH, Council Workgroup on Child and Adolescent Research	2000 - 2001
NIMH, Strategic Plan for Mood Disorders	2000 - 2001
NIMH, Advisory Council, Workgroup on Child and Adolescent Mental Health Intervention Development and Deployment	2001 - 2002
The National Academies, Institute of Medicine, Workshop Committee on the Synthesis of Research on Adolescent Health and Development	2005 - 2006
The 2005 AASM/Pfizer Visiting Professorship in Sleep Medicine	2005
Fellow of the Academy, New York Academy of Sciences	2005
American Psychiatric Association - NIMH - DSM-V Child and Adolescent Development Disorders Work Group	2007 - 2011

## PUBLICATIONS

### PEER-REVIEWED SCIENTIFIC ARTICLES:

1. Jennings J, Dahl RE, Ansseau M and Westervelt W: Technique to Examine Phasic Thermoregulation during Human Sleep. *Acta Neurologica Belgica*, 85:292-302, 1985.
2. Dahl RE, Puig-Antich J, Ryan ND, Nelson B, Novacenko H, Twomey J, Williamson D, Goetz R, Ambrosini PJ: Cortisol Secretion in Adolescents with Major Depressive Disorder. *Acta Psychiatrica Scandinavica*, 80:18-26, 1989.
3. Puig-Antich J, Dahl RE, Ryan ND, Novacenko H, Goetz D, Goetz R, Twomey J, Klepper T: Cortisol Secretion in Prepubertal Children with Major Depressive Disorder: Episode and Recovery. *Archives of General Psychiatry*, 46:801-809, 1989.
4. Hoch CC, Reynolds CF, Houck PR, Hall F, Berman SR, Buysse DJ, Dahl RE, Kupfer DJ: Predicting Mortality in Mixed Depression and Dementia using EEG Sleep Variables. *Journal of Neuropsychiatry and Clinical Neurosciences*, 1(4)366-371, 1989.
5. Dahl RE, Puig-Antich J, Ryan NE, Cunningham S, Nelson B, Klepper T: EEG Sleep in Adolescents with Major Depression: The Role of Suicidality and Inpatient Status. *Journal of Affective Disorders*, 19:63-75, 1990.
6. Pelham WE, Greenslade KE, Hamilton MA, Murphy DA, Greenstein JJ, Gnagy EM, Dahl RE: Relative Efficacy of Long-Acting Stimulants on ADHD Children: A Comparison of Standard Methylphenidate, Ritalin SR-20, Dexedrine Spansule, and Pemoline. *Pediatrics*, 86(2)226-237, 1990.
7. Dahl RE, Pelham WB, Wierson MC: The Role of Sleep Disturbance in Attention Deficit Disorder Symptomatology: A Case Study. *Journal of Pediatric Psychology*, 16(2)229-239, 1991.
8. Dahl RE, Ryan ND, Puig-Antich J, Nguyen NA, Al-Shabbout M, Meyer VA, Perel J: 24-Hour Cortisol Measures in Adolescents with Major Depressive Disorder: A Controlled Study. *Biological Psychiatry*, 30:25-36, 1991.
9. Goetz R, Puig-Antich J, Dahl RE, Ryan ND, Asnis G, Rabinovich H, Nelson B: EEG Sleep of Young Adults with Major Depression: A Controlled Study. *Journal of Affective Disorders*, 22:91-100, 1991.
10. Dahl RE, Ryan ND, Birmaher B, Al-Shabbout M, Williamson DE, Neidig M, Nelson B, Puig-Antich J: EEG Sleep Measures in Prepubertal Depression. *Psychiatry Research*, 38:201-214, 1991.
11. Bulik CM, Dahl RE, Epstein LH, Kaye WH: The Effects of Smoking Deprivation on Caloric Intake in Women with Bulimia Nervosa. *International Journal of Eating Disorders*, 10:451-459, 1991.
12. Rodgers GK, Chan KH, Dahl RE: Antral Choanal Polyp Presenting as Obstructive Sleep Apnea. *Archives of Otolaryngology Head Neck Surgery*, 117:914-916, 1991.
13. Birmaher B, Dahl RE, Ryan ND, Rabinovich H, Ambrosini P, Al-Shabbout M, Novacenko H, Nelson B, Puig-Antich J: Dexamethasone Suppression Test in Adolescents with Major Depressive Disorder. *American Journal of Psychiatry*, 149(8)1040-1045, 1992.
14. Birmaher B, Ryan ND, Dahl RE, Rabinovich H, Ambrosini P, Williamson D, Novacenco H, Nelson B, Sing Lo E, Puig-Antich J: Dexamethasone Suppression Test in Children with Major Depressive Disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 31:291-297, 1992.

15. Bulik CM, Sullivan PF, Epstein LH, McKee M, Kaye WH, Dahl RE, Weltzin TE: Drug Use in Women with Anorexia and Bulimia Nervosa. *International Journal of Eating Disorders*, 11(3)213-255, 1992.
16. Ryan ND, Williamson DE, Iyengar S, Orvaschal H, Reich T, Dahl RE, Puig-Antich J: A Secular Increase in Child and Adolescent Onset Affective Disorder. *Journal of the American Academy of Child and Adolescent Psychiatry*, 31(4)600-605, 1992.
17. Dahl RE, Ryan ND, Williamson DE, Ambrosini PJ, Rabinovich H, Novacenko H, Nelson B, Puig-Antich J: The Regulation of Sleep and Growth Hormone in Adolescent Depression. *Journal of the American Academy of Child and Adolescent Psychiatry*, 31(4)615-621, 1992.
18. Ryan ND, Birmaher B, Perel JM, Dahl RE, Meyer V, Al-Shabbout M, Iyengar S, Puig-Antich J: Neuroendocrine Response to L-5 Hydroxytrptophan Challenge in Prepubertal Major Depression: Depressed Versus Normal Children. *Archives of General Psychiatry*, 49:843-851, 1992.
19. Waterman GS, Ryan ND, Perel JM, Dahl RE, Birmaher B, Williamson DE, Thomas CR, Puig-Antich J: Nocturnal Urinary Excretion of 6-Hydroxymelatonin Sulfate in Prepubertal Major Depressive Disorder. *Biological Psychiatry*, 31:582-590, 1992.
20. Giles D, Roffwarg H, Dahl RE, Kupfer DJ: EEG Sleep Abnormalities in Depressed Children: A Hypothesis. *Psychiatry Research*, 41(1)53-63, 1992.
21. Williamson DE, Ryan ND, Dahl RE, Jeannette L: Hamilton Depression Scores Can Be Extracted from The K-SADS-P in Adolescents. *Journal of Child and Adolescent Psychopharmacology*, 2(3)175-181, 1992.
22. Dahl RE, Kaufman J, Ryan ND, Perel J, Al-Shabbout M, Birmaher B, Nelson B, Puig-Antich J: The Dexamethasone Suppression Test in Children and Adolescents: A Review and a Controlled Study. *Biological Psychiatry*, 32:109-126, 1992.
23. Dahl RE, Siegel SF, Williamson DE, Lee PA, Perel J, Birmaher B, Ryan ND: CRH Stimulation Test and Nocturnal Cortisol Levels in Normal Children. *Pediatric Research*, 32(1)64-68, 1992.
24. Scher MS, Steppe DA, Dahl RE, Asthana S, Guthrie RD: Comparison of EEG Sleep Measures in Healthy Full-Term and Preterm Infants at Matched Conceptional Ages. *Sleep*, 15(5)442-448, 1992.
25. Puig-Antich J, Kaufman J, Ryan ND, Williamson DE, Dahl RE, Lukens E, Todak G, Ambrosini P, Rabinovich H, Nelson B: The Psychosocial Functioning and Family Environment of Depressed Adolescents. *Journal of the American Academy of Child and Adolescent Psychiatry*, 32(2)244-253, 1993.
26. Jennings RJ, Reynolds CF, Bryant DS, Berman SR, Buysse DJ, Dahl RE, Hoch CC, Monk TH: Peripheral Thermal Responsivity to Facial Cooling during Sleep. *Psychophysiology*, 30:374-382, 1993.
27. Dahl RE, Ryan ND, Perel J, Birmaher B, Al-Shabbout M, Nelson B, Puig-Antich J: Cholinergic REM Induction Test with Arecoline in Depressed Children. *Psychiatry Research*, 51(3)269-282, 1994.
28. Waterman GS, Dahl RE, Birmaher B, Ambrosini P, Rabinovich H, Williamson D, Novacenko H, Nelson B, Puig-Antich J, Ryan ND: The 24-Hour Pattern of Prolactin Secretion in Depressed and Normal Adolescents. *Biological Psychiatry*, 35(7)440-445, 1994.
29. Ryan NR, Dahl RE, Birmaher B, Williamson DE, Iyengar S, Nelson B, Puig-Antich J, Perel JM: Stimulatory Tests of Growth Hormone Secretion in Prepubertal Major Depression: Depressed Versus Normal Children. *Journal of the American Academy of Child & Adolescent Psychiatry*, 33(6)824-833, 1994.

30. Birmaher B, Rabin BS, Garcia MR, Jain U, Whiteside TL, Williamson DE, Al-Shabbout M, Nelson B, Dahl RE, Ryan ND: Cellular Immunity in Depressed, Conduct Disorder, and Normal Adolescents - Role of Adverse Life Events. *Journal of the American Academy of Child & Adolescent Psychiatry*, 33(5)671-678, 1994.
31. Dahl RE, Holttum J, Trubnick L: A Clinical Picture of Child and Adolescent Narcolepsy. *Journal of the American Academy of Child & Adolescent Psychiatry*. 33(6)834-841, 1994.
32. Dahl RE, Scher MS, Williamson DE, Robles N, Day N: A Longitudinal Study of Prenatal Marijuana Use: Effects on Sleep and Arousal at Age 3 Years. *Archives of Pediatrics & Adolescent Medicine*, 149:145-150, 1995.
33. Rao U, Ryan ND, Birmaher B, Dahl RE, Williamson DE, Kaufman J, Rao R, Nelson B: Unipolar Depression in Adolescents: Clinical Outcome in Adulthood. *Journal of the American Academy of Child & Adolescent Psychiatry*, 34(5)566-578, 1995.
34. Dahl RE, Bernhisal-Broadbent J, Scanlon-Holdford S, Lupo M, Sampson HA, Al-Shabbout M: Sleep Disturbances in Children with Atopic Dermatitis. *Archives of Pediatrics & Adolescent Medicine*, 149:856-860, 1995.
35. Williamson DE, Dahl RE, Birmaher B, Goetz RR, Nelson B, Ryan ND: Stressful Life Events and EEG Sleep in Depressed and Normal Control Adolescents. *Society of Biological Psychiatry*, 34:591-598, 1995.
36. Williamson DE, Ryan ND, Birmaher B, Dahl RE, Kaufman J, Rao U, Puig-Antich J: A Case Control Family History Study of Depression in Adolescents. *Journal of the American Academy of Child & Adolescent Psychiatry*, 34(12)1596-1606, 1995.
37. Dahl RE: The Regulation of Sleep and Arousal: Development and Psychopathology. *Development and Psychopathology*, 8(1)3-27, 1996.
38. Sun M, Qian S, Yan X, Baumman SB, Xian-Gen X, Dahl RE, Ryan ND, Scwabassi RJ: Localizing Functional Activity in the Brain Through Time-Frequency Analysis and Synthesis of the EEG. Special Issue of the *Proceedings of the IEEE on Time-Frequency Analysis*, 84(9)1302-1311, 1996.
39. Birmaher B, Dahl RE, Perel J, Williamson DE, Nelson B, Stull S, Kaufman J, Waterman GS, Rao U, Nguyen N, Puig-Antich J, Ryan ND: Corticotropin Releasing Hormone Challenge Test in Prepubertal Major Depression. *Biological Psychiatry*, 39(4)267-277, 1996.
40. Dahl RE, Ryan ND, Matty Mk, Birmaher B, Al-Shabbout M, Williamson DE, Kupfer DJ: Sleep Onset Abnormalities in Depressed Adolescents. *Biological Psychiatry*, 39(6)400-410, 1996.
41. DeBellis MD, Dahl RE, Perel JM, Birmaher B, Al-Shabbout M, Williamson DE, Nelson B, Ryan ND: Nocturnal ACTH, Cortisol, Growth Hormone, and Prolactin Secretion in Prepubertal Depression. *Journal of the Academy of Child & Adolescent Psychiatry*, 35:1130-1138, 1996.
42. Rao U, Dahl RE, Ryan ND, Birmaher B, Williamson DE, Giles DE, Rao R, Kaufman J, Nelson B: The Relationship between Longitudinal Clinical Course and Sleep and Cortisol Changes in Adolescent Depression. *Biological Psychiatry*, 40(6)474-484, 1996.
43. Birmaher B, Ryan ND, Williamson DE, Brent DA, Kaufman J, Dahl RE, Perel J, Nelson B: Childhood and Adolescent Depression: A Review of the Past Ten Years. Part I. *Journal of the American Academy of Child & Adolescent Psychiatry*, 35(11)1427-1439, 1996.
44. Williamson DE, Birmaher B, Dahl RE, Al-Shabbout M, Ryan ND: Stressful Life Events Influence Nocturnal Growth Hormone Secretion in Depressed Children. *Biological Psychiatry*, 40(11)1176-1180, 1996.

45. Goetz RR, Wolk SI, Coplan JD, Weissman MM, Dahl RE, Ryan ND: Rapid Eye Movement Density Among Adolescents with Major Depression Disorder Revisited. *Archives of General Psychiatry*, 53(11)1006-1007, 1996.
46. Dorn LD, Dahl RE, Birmaher B, Williamson DE, Kaufman J, Frisch L, Perel JM, Ryan ND: Baseline Thyroid Hormones in Depressed and Non-Depressed Pre- and Early-Pubertal Boys and Girls. *Journal of Psychiatric Research*, 31(5)555-567, 1997.
47. Birmaher B, Kaufman J, Brent D, Dahl R, Perel, J, Al-Shabbout M, Nelson B, Stull S, Rao U, Waterman BS, Williamson DE, Ryan ND: Neuroendocrine Response to L-5-Hydroxy-L-Tryptophan in Prepubertal Children at High Risk of Major Depressive Disorder. *Archives of General Psychiatry*, 54:1113-1119, 1997.
48. Kaufman J, Birmaher B, Perel J, Dahl R, Moreci P, Nelson B, Wells W, Ryan ND: The Corticotropin Releasing Hormone Challenge in Depressed Abused, Depressed Non-Abused and Normal Control Children. *Biological Psychiatry*, 42(8)669-679, 1997.
49. Casey BJ, Trainor RJ, Orendi JL, Schubert AB, Nystrum LE, Giedd JN, Castellanos X, Haxby J, Noll DC, Cohen JD, Forman S, Dahl RE, Rappoport JL: A Developmental Functional MRI Study of Prefrontal Activation during Performance of a Go-No-Go Task. *Journal of Cognitive Neuroscience*, 9(6)835-847, 1997.
50. Schlesinger A, Redfern MS, Dahl R, Jennings JR: Postural Control, Attention and Sleep Deprivation. *Neuroreport*, 9(1)49-52, 1998.
51. Kaufman J, Birmaher B, Brent D, Dahl R, Bridges J, Ryan N: Psychopathology in the Relatives of Depressed-Abused Children. *Child Abuse and Neglect*, 22:171-181, 1998.
52. Kaufman J, Birmaher B, Perel J, Dahl RE, Stull S, Brent D, Trubnick L, Al-Shabbout M, Ryan ND: Serotonergic Functioning in Depressed Abused Children: Clinical and Familial Correlates. *Biological Psychiatry*, 44(10)973-981, 1998.
53. Scher MS, Richardson GA, Robles N, Geva D, Goldschmidt L, Dahl RE, Sclabassi RJ, Day NL: Effects of Prenatal Substance Exposure: Altered Maturation of Visual Evoked Potentials. *Pediatric Neurology*, 18(3)236-243, 1998.
54. Reynolds CF, Martin C, Brent D, Ryan N, Dahl RE, Pilkonis P, Marcus MD, Kupfer DJ: Post-Doctoral Clinical Research Training in Psychiatry: A Model for Teaching Grant Writing and Other Research Survival Skills and for Increasing Clarity of Mentoring Expectations. *Academic Psychiatry*, 22(3)190-196, 1998.
55. Weissman MM, Wolk S, Goldstein RB, Moreau D, Adams P, Greenwald S, Klier CM, Ryan ND, Dahl RE, Wickramaratne P: Depressed Adolescents Grown Up. *Journal of the American Medical Association*, 281(18)1707-1713, 1999.
55. Picchietti DL, Underwood DJ, Farris WA, Walters AS, Shah MM, Dahl RE, Trubnick LJ, Bertocci MA, Wagner M, Hening WA: Further Studies on Periodic Limb Movement Disorder and Restless Legs Syndrome in Attention-Deficit Hyperactivity Disorder Children. *Movement Disorders*, 14(6)1000-1007, 1999.
56. Weissman MM, Wolk S, Wickramaratne P, Goldstein RB, Greenwald S, Ryan ND, Dahl RE, Steinberg D: Children with Prepubertal-Onset Major Depressive Disorder and Anxiety Grown Up. *Archives of General Psychiatry*, 56:794-801, 1999.
58. Rao U, Dahl RE, Rao R, Perel JM, Ryan ND, Birmaher B, Williamson DE: Factors Associated with the Development of Substance Abuse Disorder in Depressed Adolescents. *Journal of the American Academy of*

*Child & Adolescent Psychiatry*, 38 (9):1109-1117, 1999.

59. Coplan JD, Wolk SI, Goetz RR, Ryan ND, Dahl RE, Mann JJ, Weissman MM: Nocturnal Growth Hormone Secretion Studies in Adolescents with or without Major Depression Re-Examined: Integration of Adult Clinical Follow-Up Data. *Biological Psychiatry*, 47:7:595-604, 2000.
60. DeBellis MD, Casey BJ, Dahl RE, Birmaher B, Williamson DE, Thomas KM, Axelson DA, Frustaci K, Boring AM, Hall J, Ryan N: A Pilot Study of Amygdala Volumes in Pediatric Generalized Anxiety Disorder. *Biological Psychiatry*, 48:51-57, 2000.
61. Birmaher B, Dahl RE, Williamson DE, Perel JM, Brent DA, Axelson DA, Kaufman J, Dorn LD, Stull S, Rao U, Ryan ND: Growth Hormone Secretion in Children and Adolescents at High Risk for Major Depressive Disorder. *Archives of General Psychiatry*, 57:867-872, 2000.
62. Williamson DE, Birmaher B, Brent D, Balach L, Dahl RE, Ryan ND: Atypical Depressive Symptoms among a Sample of Depressed Child and Adolescent Outpatients. *Journal of the American Academy of Child & Adolescent Psychiatry*, 39:10:1253-1259, 2000.
63. Dahl RE, Birmaher B, Williamson DE, Dorn L, Perel J, Kaufman J, Brent DA, Axelson DA, Ryan ND: Low Growth Hormone Response to Growth Hormone-Releasing Hormone in Child Depression. *Biological Psychiatry*, 48:981-988, 2000.
64. Thomas KM, Drevets WC, Whalen PJ, Eccard CH, Dahl RE, Ryan ND, Casey BJ: Amygdala Response to Facial Expressions in Children and Adults. *Biological Psychiatry*, 49:4:309-316, 2001.
65. Thomas KM, Drevets WC, Dahl RE, Ryan ND, Birmaher B, Eccard CH, Axelson D, Whalen PJ, Casey BJ: Amygdala Response to Fearful Faces in Anxious and Depressed Children. *Archives of General Psychiatry*, 58:1057-1063, 2001.
66. Lewin DS, Rosen RC, England SJ, Dahl RE: Preliminary Evidence of Behavioral and Cognitive Sequelae of Obstructive Sleep Apnea in Children. *Sleep Medicine*, 3:5-13, 2002.
67. Chervin, RD, Hedger Archbold K, Dillon JE, Panahi P, Pituch KJ, Dahl RE, Guilleminault C: Inattention, Hyperactivity, and Symptoms of Sleep-Disordered Breathing. *Pediatrics*, 109(3)449-456, 2002.
68. Chervin R, Archbold KH, Dillon JE, Pituch KJ, Panahi P, Dahl RE, Guilleminault C: Associations between Symptoms of Inattention, Hyperactivity, Restless Legs, Period Leg Movements. *Sleep*, 25(2)213-218, 2002.
69. Stein D, Williamson DE, Birmaher B, Brent DA, Kaufman J, Dahl RE, Ryan ND: Parent-Child Bonding and Family Functioning in Depressed Children and Children at High Risk and Low Risk for Future Depression. *Yearbook of Psychiatry & Applied Mental Health*, 2002:14-16, 2002.
70. Nelson CA, Bloom FE, Cameron J, Amaral D, Dahl R, Pine D: An Integrative, Multidisciplinary Approach to the Study of Brain-Behavior Relations in the Context of Typical and Atypical Development. *Development and Psychopathology*, 14:499-520, 2002.
71. Rao U, Dahl RE, Ryan ND, Birmaher B, Williamson DE, Rao R, Kaufman J: Heterogeneity in EEG Sleep Findings in Adolescent Depression: Unipolar Versus Bipolar Clinical Course. *Journal of Affective Disorders*, 70(3)273-280, 2002.
72. DeBellis MD, Keshavan MS, Shifflett H, Iyengar S, Dahl RE, Axelson DA, Birmaher B, Hall J, Moritz G, Ryan ND: Superior Temporal Gyrus Volumes in Pediatric Generalized Disorder. *Biological Psychiatry*, 51(7)553-562, 2002.



73. Warren SL, Gunnar M, Kagan J, Anders TF, Simmens SJ, Roness M, Wease S, Aron E, Dahl RE, Sroufe LA: Maternal Panic Disorder: Infant Temperament, Neurophysiology and Parenting Behaviors. *Journal of the American Academy of Child & Adolescent Psychiatry*, 42(7)814-825, 2003.
74. Campo JV, Dahl RE, Williamson DE, Birmaher B, Perel J, Ryan ND: Gastrointestinal Distress to Serotonergic Challenge: A Risk Marker for Emotional Disorder? *Journal of the American Academy of Child & Adolescent Psychiatry*, 42(10)1221-1226, 2003.
75. Dorn LD, Dahl RE, Williamson DE, Birmaher B, Axelson D, Perel J, Stull SD, Ryan ND: Developmental Markers in Adolescence: Implications for Studies of Pubertal Processes. *Journal of Youth and Adolescence*, 32(5)315-324, 2003.
76. Coleman K, Dahl RE, Ryan ND, Cameron JL: Growth Hormone Response to Growth Hormone-Releasing Hormone and Clonidine in Young Monkeys: Correlation With Behavioral Characteristics. *Journal of Child and Adolescent Psychopharmacology*, 3(3)227-41, 2003.
77. Dahl RE, Williamson DE, Bertocci MA, Stolz MV, Ryan ND, Ehlers CL: Spectral Analyses of Sleep EEG in Depressed Offspring of Alcoholic Fathers with or without a Positive History of Alcohol Abuse or Dependence: A Pilot Study. *Alcohol*, 30:193-200, 2003.
78. Axelson D, Bertocci MS, Lewin D Trubnick L, Birmaher B, Williamson DE, Ryan ND, Dahl RE: Measuring Mood and Complex Behavior in Natural Environments: Use of Ecological Momentary Assessment (EMA) in Pediatric Affective Disorders. *Journal of Child and Adolescent Psychopharmacology*, 13(3), 2003.
79. Williamson DE, Birmaher B, Ryan N, Shiffrin T, Lusky J, Protopapa J, Dahl RE, Brent D: The Stressful Life Events Schedule for Children and Adolescents: Development and Validation. *Psychiatry Research*, 119(3)225-241, 2003.
80. Matthew SJ, Coplan JD, Goetz RR, Feder A, Greenwald S, Dahl RE, Ryan ND, Mann JJ, Weissman MM: Differentiating Depressed Adolescent 24 h Cortisol Secretion in Light of Their Adult Clinical Outcome. *Neuropsychopharmacology*, 28(7)1336-43, 2003.
81. Birmaher B, Williamson DE, Dahl RE, Axelson DA, Kaufman J, Dorn LD, Ryan ND: Clinical Presentation and Course of Depression in Youth: Does Onset in Childhood Differ from Onset in Adolescence? *Journal of American Academy of Child & Adolescent Psychiatry*, 43(1)63-70, 2004.
82. May JC, Delgado MR, Dahl RE, Stenger VA, Ryan ND, Fiez JA, Carter CS: Event-Related Functional Magnetic Resonance Imaging of Reward-Related Brain Circuitry in Children and Adolescents. *Biological Psychiatry*, 55(4)359-66, 2004.
83. Williamson DE, Birmaher B, Axelson DA, Ryan, ND, Dahl RE.: First Episode of Depression in Children at Low and High Familial Risk for Depression. *Journal of the American Academy of Child & Adolescent Psychiatry*, 43(3)291-297, 2004.
84. Birmaher, B, Bridge, JA, Williamson, D., Brent, DA, Dahl, RE, Axelson, DA, Dorn, LD, Ryan, ND: Psychosocial Functioning in Youth at High Risk to Develop Major Depressive Disorder, *Journal of American Academy of Child & Adolescent Psychiatry*, 43(7)839-846, 2004.
85. Feder, A, Coplan, JD, Goetz, RR, Mathew, SJ, Pine, DS, Dahl, RE, Ryan, ND, Greenwald, S, Weissman, MM: Twenty-Four Hour Cortisol Secretion Patterns in Prepubertal Children with Anxiety or Depressive Disorders, *Biological Psychiatry*, 56(3)198-204, 2004.

86. Millman RP, Kaplan DW, Carskadon MA, Dahl RE, Owens JA, Pack AI, Riggs SG, Rogers NL, Sheldon S, Wolfson AR: Technical Report: Excessive Sleepiness in Adolescents and Young Adults: Causes, consequences, and Treatment Strategies. *Pediatrics*, 115(6)1774-1786, 2005.
87. Barbe RP, Williamson DE, Bridge JA, Birmaher B, Dahl RE, Axelson, DA, Ryan ND: Clinical Differences between Suicidal and Non-suicidal Depressed Children and Adolescents. *Journal of Clinical Psychiatry*, 66(4)492-498, 2005.
88. Ladouceur, CD, Dahl, RE, Williamson, DE, Birmaher, B, Ryan, ND, Casey, BJ: Altered Emotional Processing in Pediatric Anxiety, Depression, and Comorbid Anxiety-Depression, *Journal of Abnormal Child Psychology*, 33(2)165-177, 2005.
89. Williamson, DE, Birmaher, B, Dahl, RE, Ryan, ND: Stressful Life Events in Anxious and Depressed Children. *Journal of Child and Adolescent Psychopharmacology*, 15(4)571-580, 2005.
90. Forbes, EE, Dahl, RE: Neural Systems of Positive Affect: Relevance to Understanding Child and Adolescent Depression? *Development and Psychopathology*, 17(3)827-850, 2005.
91. Brown, SM, Peet, E, Manuck, SB, Williamson, DE, Dahl, RE, Ferrell, RE, Hariri, AR: A Regulatory Variant of the Human Tryptophan Hydroxylase-2 Gene Biases Amygdala Reactivity. *Molecular Psychiatry*, 10(9)884-888, 2005.
92. Williamson, DE, Forbes, EE, Dahl, RE, Ryan, ND: A Genetic Epidemiologic Perspective on Comorbidity of Depression and Anxiety. *Child and Adolescent Psychiatric Clinics of North America*, 14(4)707-26, 2005.
93. Bertocci, MA, Dahl, RE, Williamson, DE, Iosif, AM, Birmaher, B, Axelson, D., Ryan, ND: Subjective Sleep complaints in Pediatric Depression: A Controlled Study and Comparison with EEG Measures of Sleep and Waking. *Journal of the American Academy of Child & Adolescent Psychiatry*, 44(11)1158-1166, 2005.
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REVIEWS, INVITED PAPERS, and BOOK CHAPTERS (selected):

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**57. BOOKS**

Dahl RE and Spear LP: Adolescent Brain Development: Vulnerabilities and Opportunities. Ronald E. Dahl, M.D., and Linda Patia Spear, Ph.D., (eds.). Annals of the New York Academy of Sciences, Volume 1021, 2004.

## PROFESSIONAL ACTIVITIES

### TEACHING:

Course Name: Developmental Processes  
 Description: Full year course on a broad range of issues in normal development of infants, children, and adolescents.  
 Year(s): 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2001, 2003, 2005, 2007  
 Frequency: 2 Hours per week, 40 weeks per year  
 Audience: Child Psychiatry Residents/Fellows  
 # attendees: 5-12  
 Location: Western Psychiatric Institute and Clinic

Course Name: Research Survival Skills  
 Description: Seminar on issues related to writing and obtaining grants and the development and maintenance of research programs.  
 Year(s): 1993, 1994, 1995, 1997, 1998, 1999  
 Frequency: Once a week.  
 Audience: Post-Doctoral Fellows  
 # attendees: 8-15  
 Location: Western Psychiatric Institute and Clinic

Course Name: Psychopathology and Society  
 Description: Lecture: Human Development and the Life Cycle  
 Year(s): 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002  
 Frequency: 1 class per year  
 Audience: Second-year medical students  
 # attendees: 140  
 Location: University of Pittsburgh Medical School, Scaife Hall

Course Name: Behavioral Medicine Course, Patient-Doctor Relationship Block  
 Description: Small-group facilitator  
 Year(s): 1992  
 Frequency: Two-hour block per week for 8 weeks  
 Audience: First-year medical students  
 # attendees: 8  
 Location: University of Pittsburgh Medical School, Scaife Hall

Course Name: Introduction to Being a Physician, Patient-Doctor Relationship Block  
 Description: Small group facilitator  
 Year(s): 1992, 1993, 1994, 1995  
 Frequency: One 1-week block  
 Audience: First-year medical students  
 # attendees: 8-9  
 Location: University of Pittsburgh Medical School, Scaife Hall

Course Name: Freshman Studies 001  
 Description: Seminar on multiple aspects of university life and academics.  
 Year(s): 1991  
 Frequency: Once a week.  
 Audience: Undergraduate Freshman  
 # attendees: 20  
 Location: University of Pittsburgh, Quadrangle

1987 - present Numerous lectures and seminars on sleep and sleep disorders to residents, medical students, and staff, averaging 2-4 hours a month

1987 - present Numerous in-services and presentations on research and psychobiology of affective disorders, averaging 1-2 hours per month

**NATIONAL TEACHING:**

American Board of Sleep Medicine 1999 – 2001  
 (National Courses in Sleep Medicine)

Atlanta School of Sleep Medicine 1999 – 2000  
 (Courses in Pediatric Sleep Medicine)

Stanford School of Sleep Medicine 1992 – present  
 (Courses in Pediatric Sleep Medicine)

American Academy of Pediatrics 1994 – present  
 (Courses on Behavioral Pediatrics)

**RESEARCH TEACHING/MENTORSHIP:**

Pre-Doctoral Students: Preceptor for Mellon Research Fellowship Program

Mark Lupo 1990  
 Paul Notaro 1991  
 Norman Kim 1992  
 Jamilla Ponton 1993  
 James Beckerman 1994

Pre-Doctoral Students: NIMH Undergraduate Research Fellowship

Abigail Schlesinger 1995-1996

Ms. Schlesinger received a young investigator award from the American Sleep Disorders Association for her work during this supervision.

Pre-Doctoral Students: Summer Research Mentorship

Nim Tottenham 1999  
 Misty Carlson 1999  
 Timothy Liu 2008  
 Stephanie Holm 2008

Doctoral Students:

L. Ian Reed 2009  
 Diana Whalen 2012

Post-Doctoral / Fellows:

Joan Kaufman, Ph.D.	1993	Fellow-Clinical Research Training in Child Psychiatry
Chris H. Kye, M.D.	1995	Fellow-Clinical Research Training in Child Psychiatry
Martica H. Hall, Ph.D.	1996 – 1998	(Co-Mentor with Dan Buysse, M.D.) Fellow-Clinical Research Training in Psychiatry
Daniel S. Lewin, Ph.D.	1998 – 2001	Fellow-Clinical Research Training in Child Psychiatry
Jennifer S. Silk, Ph.D.	2000 – 2004	Fellow-Research Training in Child Psychiatry
Cécile D. Ladouceur, Ph.D.	2001 – 2005	Fellow-Research Training in Child Psychiatry
Erika E. Forbes, Ph.D.	2003 – 2005	Fellow-Research Training in Child Psychiatry
Peter L. Franzen, Ph.D.	2004 – 2006	(Co-Mentor with Dan Buysse, M.D.) Fellow-Clinical Research Training in Psychiatry
Lisa Kiang, Ph.D.	2004 – 2006	(Co-Mentor with Andrew Fuglini, Ph.D.) Fellow-Research Training in Developmental Psychology
Dana L. Rofey, Ph.D.	2005 – 2006	(Co-Mentor with Bob Noll, Ph.D.) Fellow-Clinical Research Training in Pediatrics/Child Psychiatry
Kathryn S. Scherf, Ph.D.	2006 – 2008	(Co-Mentor with Bea Luna, Ph.D.) Fellow-Research Training in Pediatrics/Child Psychiatry
Anne M. Conway, Ph.D.	2007 – 2008	Fellow-Research Training in Pediatrics/Child Psychiatry
Michelle S. Horner, D.O.	2007 – 2009	Fellow-Research Training in Pediatrics/Child Psychiatry
Anita D. Barber, Ph.D.	2008-2009	(Co-Mentor with Greg Siegle, Ph.D.) Fellow-Research Training in Pediatrics/Child Psychiatry
Dana L. McMakin, Ph.D.	2008-2009	(Co-Mentor with Greg Siegle, Ph.D. and Jennifer Silk, Ph.D.) Fellow-Research Training in Pediatrics/Child Psychiatry

**DISSERTATION COMMITTEES**

Mayadah Al-Shabbout	1996
J. Christopher May	2004
Alyssa Oland	2004
Rebecca A. Kronk	2006
Ella Vanderbilt-Adriance	2007
Charles Geier	2008
L. Ian Reed	2009
Diana Whalen	2012

**K-AWARD MENTORSHIPS**

Daniel S. Lewin Ph.D.	2002-2007	Primary Mentor
Eva M. Szigethy, Ph.D.	2002-2007	Co-Mentor with William Beardslee, M.D.
Christopher S. Monk, Ph.D.	2003-2006	Co-Mentor with Daniel Pine, M.D.
Laura Stroud, Ph.D.	2002-2007	Co-Mentor with David Abrams, Ph.D.
Jennifer S. Silk, Ph.D.	2005-2010	Primary Mentor
Ahmad R. Hariri, Ph.D.	2005-2010	Primary Mentor
Erika E. Forbes, Ph.D.	2006-2011	Primary Mentor
Laura K. Murray Ph.D.	2006-2011	Co-mentor with Judith Cohen, M.D.
Peter Franzen, Ph.D.	2007-2012	Co-mentor with Daniel Buysse, Ph.D.
Dana L. Rofey, Ph.D.	2008-2010	Co-mentor with Silva Arslanian, M.D., and Robert B. Noll,
Ph.D.		
Laura MacPherson, Ph.D.	2008-2011	Co-mentor with Richard A. Brown, M.D.

Cécile D. Ladouceur, Ph.D. 2008-2013

Co-mentor with Mary L. Phillips, M.D., Ph.D.

**RESEARCH**

**CURRENT FUNDING:**

<p>NIMH Total Direct Costs:</p>	<p><b>Treatment of Sleep Disturbances in Young Children with Autism</b> December 1, 2009 – November 30, 2012 <b>Role: Co-Principal Investigator (10% effort)</b> \$750,000 over 5 years</p>
<p>NIMH P50 MH080215 Total Direct Costs:</p>	<p><b>Transdisciplinary Studies of CBT for Anxiety in Youth</b> July 1, 2008 – June 30, 2013 <b>Role: Co-Program Director (35% effort)</b> \$6,286,413 over 5 years</p>
<p>NIDA R21 DA024144 Total Direct Costs:</p>	<p><b>Emotion Regulation in Adolescence: A Social Affective Neuroscience Approach</b> September 26, 2007 – July 31, 2011 <b>Role: Co-Principal Investigator (10% effort)</b> \$808,623 over 4 years</p>
<p>NICHD T32 HD049354 Total Direct Costs:</p>	<p><b>Interdisciplinary Research: Behavioral/Emotional Health</b> May 1, 2005 – April 30, 2010 <b>Role: Principal Investigator (10% effort)</b> \$962,475 over 5 years</p>
<p>NIDA R01 DA018910 Total Direct Costs:</p>	<p><b>Pubertal Maturation &amp; Drug Use Vulnerability</b> September 30, 2004 – August 31, 2010 <b>Role: Principal Investigator (15% effort)</b> \$1,587,323 over 5 years</p>
<p>HRSA T73MC00036 Total Direct Costs:</p>	<p><b>University, Community, Leaders, and Individuals with Disabilities: The UCLID Center at the University of Pittsburgh</b> July 1, 2004 - June 20, 2010 <b>Role: Co-Principal Investigator (10% effort – effective October 1, 2006)</b> \$2,000,000 over 5 years</p>
<p>NIMH K01 MH073077 Total Direct Costs:</p>	<p><b>Emotion Regulation and Transmission of Depression</b> February 1, 2005 – January 31, 2010 PI: Jennifer Silk, Ph.D. <b>Role: Primary Mentor (5% effort)</b> \$631,173</p>
<p>NIMH K01 MH072837 Total Direct Costs:</p>	<p><b>Development of Amygdala-Prefrontal Interactions</b> September 7, 2005 – May 31, 2010 PI: Ahmad Hariri, Ph.D. <b>Role: Primary Mentor (5% effort)</b> \$739,766</p>



NIMH  
K01 MH074769                   **Development, Positive Affect, and Adolescent Depression**  
March 3, 2006 – February 28, 2011  
PI: Erika E. Forbes, Ph.D.  
**Role: Primary Mentor (5% effort)**  
Total Direct costs:           \$681,713

NSF  
**Stress Response & the Adolescent Transition**  
September 15, 2007 – August 31, 2010  
PI: Laura Stroud, PhD  
**Role: Consultant**  
Award:                           \$325,966

**PREVIOUS FUNDING:**

NIMH  
T32 MN19734                   **Research Training in Transitions, Families & Mental Health**  
June 1, 2004 – June 30, 2009  
PI: M. Belinda Tucker, Ph.D.  
**Role: Co-Mentor (3% effort)**  
Total Direct Costs:           \$1,680,000

NIMH  
P01 MH41712                   **Neurobehavioral Changes in Pediatric Affective Disorder**  
October 1, 2002 – June 30, 2008  
Program Director:           Neal Ryan, MD

Roles on Project: *Co-Program Director (30% total effort across projects as below)*

**Co-Investigator:**           Administrative Core  
**Principal Investigator:**   Neurobiology Core  
**Principal Investigator:**   Project 1 – “**Mood, motivation, & behavioral changes in pediatric affective disorders**”  
**Co- Investigator:**           Project 3 – “**fMRI Investigations of reward-contingent decision making in child and adolescent affective disorders**”  
**Co- Investigator:**           Project 4 – “**Neurobehavioral phenomenology of adolescent bipolar disorder**”

**Total Direct Costs: \$4,726,276**

NIDA  
R01 DA016402                   **Smoking and Metabolic Consequences in Adolescent Girls**  
May 1, 2003 – April 30, 2008  
PI: Lorah D. Dorn, Ph.D.  
**Role: Co-investigator (2% effort)**  
Total Direct Costs:           \$359,839

NIMH  
K22 MH068017                   **Adolescent Social Phobia and Neurophysiological Function**  
April 1, 2003 – March 31, 2008  
PI: Christopher S. Monk, Ph.D.  
**Role: Co-Sponsor (2% effort)**  
Total Direct Costs:           \$626,563

<p>NIH R01 MH62568</p> <p>Total Direct Cost:</p>	<p><b>Genetics of Anxious/Depressive Behaviors in Macaques</b> December 16, 2002 – November 30, 2007 PI: Judy L. Cameron, Ph.D. <b>Role: Co-Investigator</b> (5% effort)</p> <p>\$483,560</p>
<p>NIMH R24 MH067346</p> <p>Total Direct Costs:</p>	<p><b>Research Network - Affect Regulation and Adolescent Brain Maturation</b> September 23, 2002 – June 30, 2007 <b>Role: Principal Investigator</b> (15% effort)</p> <p>\$1,000,000 over 4 years</p>
<p>NIMH K23 MH65443</p> <p>Total Direct Costs:</p>	<p><b>HPA Reactivity, Puberty, &amp; Sex Differences in Depression</b> June 01, 2002 – May 31, 2007 PI: Laura Stroud, Ph.D. <b>Role: Co-Mentor</b> (2%)</p> <p>\$561,732</p>
<p>NIMH K23 MH064604</p> <p>Total Direct Costs:</p>	<p><b>Treatment of Depressed Adolescents with Physical Illness</b> September 1, 2002 – August 31, 2007 PI: Eva M. Szigethy, M.D. <b>Role: Consultant/Co-mentor</b> (2% effort)</p> <p>\$823,047</p>
<p>NIMH R01 MN 059902</p> <p>Total Direct Costs:</p>	<p><b>Consortium on Transitions, Families and Mental Health</b> July 1, 2003 – June 30, 2007 PI: M. Belinda Tucker, Ph.D. <b>Role: Co-Investigator</b> (5% effort)</p> <p>\$1,000,000</p>
<p>NIAAA R01AA016274</p> <p>Total Direct Costs:</p>	<p><b>Affective &amp; Neurobiological Predictors of Adolescent-Onset Alcohol Use Disorders</b> April 1, 2006 – March 31, 2007 PI: Douglas E. Williamson, Ph.D. <b>Role: Co-investigator</b> (10% effort)</p> <p>\$1,852,674</p>
<p>NIMH K01 MH001958</p> <p>Total Direct Costs:</p>	<p><b>Psychological Sequelae of Disturbed Sleep in Pediatrics</b> December 1, 2001 – November 30, 2006 PI: Daniel S. Lewin, Ph.D. <b>Role: Primary Mentor</b> (2% effort)</p> <p>\$532,371</p>
<p>NIMH R01 MH61596</p>	<p><b>Neuroimaging Markers of Vulnerability to Depression</b> July 1, 2001 – June 30, 2006</p>

Total Direct Cost: **Role: Principal Investigator** (10% effort)  
\$1,122,786

NIAAA  
R01 AA12504 **Sleep/Arousal in Adolescence: Pathways to Alcohol Abuse**  
May 1, 2000 – April 30, 2006  
**Role: Principal Investigator** (10% effort)  
Total Direct Costs: \$896,267

NIMH  
K02 MH01362 **Sleep/Arousal & Affect Regulation: Pubertal Development**  
May 18, 2001 – April 30, 2006  
**Role: Principal Investigator** (85% effort)  
Total Direct Costs: \$584,945

NIH  
R21 DA15900 **Pediatric fMRI Methodology Development**  
September 24, 2002 – June 30, 2005  
PI: Andy Stenger, Ph.D.  
**Role: Co-Investigator** (5% effort)  
Total Direct Costs: \$450,000

NIH  
R25 **Training Future Generations of Mental Health Researchers**  
September 1, 1999 - August 31, 2004  
PI: Charles F. Reynolds III, MD  
**Role: Executive Committee Member** (2% effort)  
Total Direct Costs: \$1,154,120

NIH  
R13 DA016688 **Conference Grant on –NYAS Meeting on Adolescent Brain Development:  
Vulnerabilities/Opportunities**  
July 01, 2003 – June 30, 2004  
**Role: Principal Investigator** (2% effort)  
Total Direct Costs: \$25,000 over 1 year

NIMH  
PO1MH41715 **The Psychobiology of Childhood Anxiety and Depression**  
March 1, 1997 – February 28, 2002  
Program Director: Neal Ryan, M.D.  
**Roles on Project: Co-Program Director**  
(50% total effort across projects as below)  
**Principal Investigator:** Project 1 - Childhood Anxiety and Depression: Psychobiology  
**Co-Investigator:** Project IV - Childhood Anxiety and Depression fMRI  
**Co-Investigator:** Project V - A Juvenile Primate Model of GH Dysregulation with Anxiety and Stress  
**Director:** Clinical Psychobiology Core  
Total Direct Costs: \$4,726,276

NIMH  
K02 MH01362-05 **The Developmental Psychobiology of Sleep and Depression**  
September 15, 1996 - April 30, 2001

**Role: Principal Investigator**  
Independent Scientist Award (80% effort)  
Total Direct Costs: \$420,069

NIMH  
P01 MH41712  
**Prepubertal Depression: Psychobiology of Early Onset Illness**  
July 1, 1986 - June 30, 1991  
Program Project grant to: Joaquim Puig-Antich, MD (Program Director)  
Neurobiological markers and mechanisms in prepubertal children with  
major depressive illness  
PI: Neal D. Ryan, M.D.  
**Role: Co- Investigator** (25% effort) Director Sleep Laboratory Core from 1987-1991  
Total Direct Costs: \$3,151,529

NIMH  
Seed Grant  
AA08746-01  
**Sleep and Schedule Disturbances In Adolescent Alcohol Abuse**  
Pittsburgh Adolescent Alcohol Research Center (PAARC)  
October 1, 1991 - October 1, 1992  
**Role: Principal Investigator** (5 % effort)  
Total Direct Costs: \$20,000

NIMH  
R29 MH46510  
First Award  
Direct Costs:  
**EEG Sleep Changes in Adolescent Depression**  
April 1, 1990 - May 31, 1994  
**Role: Principal Investigator** (50% effort)  
\$279,931

NIMH  
T32 MH18951  
**Clinical Research Training in Child Psychiatry**  
August 8, 1990 - June 30, 1994  
PI: David Brent, MD  
**Role: Co-Director** - 1993-1994 (10 % effort)  
Total Direct Costs: \$282,338

NIMH  
T32 MH18951  
**Clinical Research Training in Child Psychiatry**  
July 1, 1992 - June 30, 2004  
PI: David Brent, MD  
**Role: Co-Director** (5% effort)  
Total Direct Costs: \$2,907,573

NIMH  
P01 MH41712

**Psychobiology of Depression in Children and Adolescents**

July 1, 1991 - June 30, 1996

Program Director: Neal Ryan, MD

(50% effort - total effort across projects as below)

**Role: Co-Investigator:** Project I

Neurobiological Correlates of Depression: Predictive Validity, Specificity, and

Localization of Abnormalities

**Principal Investigator:** Project II

Physiological Maturation of Sleep and Neuroendocrine Regulation

**Co-Investigator:** - Project III

Biology and Family Adversity in Prepubertal Depression

**Principal Investigator:** Project IV

Quantitative EEG Sleep Analysis

**Director:** Sleep Laboratory Core

Total Direct Costs:

\$4,996,141

NIAAA  
AA08528

**Prenatal Alcohol Effects on Brain Maturation**

August 1, 1992 - July 31, 1996

PI: Mark Scher, MD

**Role: Co-Investigator** (15% effort)

Total Direct Costs:

\$698,955

MHCRC/LLMD  
Seed Grant

**The Impact of Sleep Deprivation and Task Performance on Postural Controls in the Elderly**

August 1, 1996 - August 1, 1997

PI: Mark Redfern, Ph.D.

**Role: Co-Investigator** (5% effort)

Total Direct Costs:

\$10,000

Dana Foundation  
Grant

**Striatal Disruption in Attention-Deficit Hyperactivity Disorder**

January 1, 1997 - December 31, 1999

PI: BJ Casey, Ph.D.

**Role: Co-Investigator** (5% effort)

Total Direct Costs:

\$100,000

**OTHER RESEARCH RELATED ACTIVITIES:**

Editorial Board:       Development and Psychopathology  
                              Sleep Medicine  
                              Behavioral Sleep Medicine (2001-2006)  
                              Journal of Family Psychology (Guest Editor 2005-2007)

Reviewer:               Pediatrics  
                              Sleep  
                              Biological Psychiatry  
                              Journal of the American Medical Association  
                              Journal of the American Academy of Child and Adolescent Psychiatry  
                              Journal of Child and Adolescent Psychopharmacology  
                              Archives of Pediatrics & Adolescent Medicine  
                              Child Development  
                              Journal of Developmental and Behavioral Pediatrics  
                              Neurology  
                              Psychiatry Interpersonal and Biological Processes  
                              Israel Science Foundation

Member:                 Consortium on the Developmental Psychobiology of Stress (supported by W.T. Grant  
                              Foundation, and Starbright Pediatric Network)

Reviewer:               NIMH B/START Grants (1995-1998)  
                              Behavioral Science Track Award for Rapid Transition (B/START)

Ad-Hoc Reviewer:      NIMH Grant Reviews (1995-present)

NIH                        IRG BBBP-6/CPDD (2000-2004 reviewer)

Representative:        APSS Program Committee (2000-2003)

NAS / IOM:             Workshop Committee on the Synthesis of Research  
                              on Adolescent Health and Development (2005-2006)

NIAAA:                  Underage Drinking Initiative (2005)

NICHD:                  Program Review/Evaluation Committee (2005)

SRCD:                    Society for Research in Child Development Multidisciplinary Task Force (2005-2006)

SRCD:                    Society for Research in Child Development Interdisciplinary Committee (2007-2011)

**CURRENT RESEARCH INTEREST:**

A central focus of my current research aims at questions about the development of regulatory systems—including sleep, arousal and emotion regulation—that appear relevant to understanding early pathways to a broad range of behavioral and emotional health problems, including depression, anxiety, and alcohol and substance use disorders.

A major part of this work focuses on early adolescence/pubertal maturation as a developmental period with unique vulnerabilities and opportunities for early intervention. The conceptual model guiding this research recognizes the crucial role of earlier developmental periods, however, it seeks to advance our emerging understanding that some aspects of neural plasticity extend into the interval of adolescent brain development in ways that may create unique opportunities to intervene and alter the trajectory in positive ways. The approach to advancing this line of investigation requires a transdisciplinary team of researchers, with a major emphasis on cognitive and affective neuroscience as well as genomics, while also placing an equal emphasis on social, family, and cultural influences on development. The long-term goal of this line of investigation is to inform clinical intervention and social policy in ways that will lead to enduring improvements in the health and well-being of youth.

The specific components of this transdisciplinary research include:

1. Sleep and Arousal Regulation in Children and Adolescents
2. The Development of Affect Regulation
3. Pubertal Effects on Brain Maturation
4. Child and Adolescent Sleep Disorders
5. Child and Adolescent Affective Disorders

**SERVICE**

1988 - Present	Student Advisor, University of Pittsburgh, School of Medicine (served as faculty advisor for 32 medical students as of 2002).
1988 - 1991	WPIC Medical Emergencies Committee
1988 - 1991	WPIC Infectious Diseases Committee
1988 - 1991	WPIC HIV Committee (Chair, ad hoc committee to write procedural guidelines)
1992 - Present	Co-Director, Post-Doctoral Clinical Research Fellowship in Child Psychiatry
1989 - 1991	WPIC Child Psychiatry Steering Committee
1992 - Present	Fellowship Training Committee, American Sleep Disorders Association
1990 - Present	WPIC Research Committee
1992 - Present	Interviewing Committee, University of Pittsburgh School of Medicine
1993 - 1996	Chair, Fellowship Training Committee, American Sleep Disorders Association
1993 - Present	WPIC Education Committee
1993 - Present	WPIC Child Psychiatry Academic Advisory Committee
1994 - Present	Pediatric Council Member, National Sleep Foundation
1994 - Present	Admissions Committee, University of Pittsburgh Medical School
1994 - Present	WPIC Residency Advisory Committee
1997 - Present	WPIC, Coordinator, Residency Training Research Track,
1997 - 1999	WPIC, Director, Pediatric Medical Services,
1998 - 1999	Program Committee, American Sleep Disorders Association
2001 - Present	WPIC, Clinical Neuroscience Research Center Committee
2001 - 2004	WPIC, Academic Promotions Committee (APC) Faculty Development Subcommittee
2005 - Present	CHP Behavioral Health Committee