

School of Medicine

Biographical

Name Neal D. Ryan, M.D.

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Education and Training

| Dates Attended | Name and Location of Institution | Degree Received and year | Major Subject |
|-----------------------|---|--|--|
| Undergraduate | | | |
| 1970 – 1974 | Massachusetts Institute of Technology | Bachelor of Science, 1974 | Electrical Engineering (computer science) |
| Graduate | | | |
| 1974 – 1978 | Yale University School of Medicine | M.D. 1978 | Medicine |
| Post Graduate | | | |
| Dates Attended | Name and Location of Institution | Discipline | Name of Program Director |
| 7/1978 – 6/1979 | Overlook Hospital, Summit, NJ | Flexible Internship | William Minogue, M.D. |
| 7/1979 – 6/1982 | New York State Psychiatric Institute / Columbia Presbyterian Medical Center | Residency in General Psychiatry | Ronald Rieder, M.D. |
| 7/1981 – 6/1984 | Columbia University, NY | NIMH funded research fellowship | Joaquim Puig-Antich, M.D., Preceptor |
| 7/1984 – 12/1986 | University of Pittsburgh, PA | Completion of requirements for board eligibility in child psychiatry | Joaquim Puig-Antich, M.D., Director of Child and Adolescent Psychiatry |

Appointments and Positions

| Years Inclusive | Name and Location of Institution or Organization | Title or Rank |
|-------------------------------|---|---|
| <u>Academic</u> | | |
| 7/1982 – 6/1984 | Columbia University, NY | Instructor in Psychiatry |
| 7/1984 – 1989 | University of Pittsburgh, PA | Assistant Professor of Psychiatry |
| 1984 – 1991 | University of Pittsburgh, PA | Director Child and Adolescent Depression and Anxiety Disorders Programs |
| 1989 – 1995 | University of Pittsburgh | Associate Professor of Psychiatry |
| 1993 | University of Pittsburgh | Conferral of Tenure |
| 1993 – 1994 | University of Pittsburgh | Director of Child Psychiatric Residency Training and Co-Director of the Office of Residency Training |
| 1994 – Present | University of Pittsburgh | Director of Education, Department of Psychiatry (responsible for medical student education, residency training, and clinical and research fellowships) |
| 1994 - Present | University of Pittsburgh | Director of Psychiatric Informatics, Department of Psychiatry (responsible for selection and deployment of electronic medical record system for psychiatry) |
| 1995 – Present | University of Pittsburgh | Professor of Psychiatry |
| 1995– Present | University of Pittsburgh | Conferral of Joaquim Puig-Antich endowed professorship in Child and Adolescent Psychiatry |
| 2004– Present | University of Pittsburgh | Director of UPMC Center for Integrative Medicine |
| <u>Non-Academic Positions</u> | | |
| 1997 – Present | Askesis Development Corporation, Pittsburgh | Member, Corporate Board |

Certification and Licensure
Specialty Certification

| Year | Certifying Board |
|-------------|--|
| 1983 | General Psychiatry American Board of Psychiatry and Neurology |
| 1987 | Child Psychiatry American Board of Psychiatry and Neurology |

Medical or Other Professional Licensure

| | Licensing Board | State |
|-----------------|---|--------------|
| Medical license | Medical Examiners of New Jersey | New Jersey |
| Medical license | The University of the State of New York | New York |
| Medical license | Medical Examiners of Pennsylvania | Pennsylvania |

Memberships in Professional and Scientific Societies

| Year | Organization |
|----------------|--|
| 1980 - Present | American Psychiatric Association |
| 1983 - Present | American Association for the Advancement of Science |
| 1985 - Present | New York Academy of Science |
| 1987 - Present | American Academy of Child and Adolescent Psychiatry |
| 1990 - Present | Society for Research in Child and Adolescent Psychopathology |
| 1992 - Present | American Society of Clinical Psychopharmacology |
| 1994 - Present | Association for Academic Psychiatry |
| 1997 - Present | International Society for Research in Child and Adolescent Psychopathology |
| 1998 - Present | American College of Neuropsychopharmacology |
| 2000 - Present | Society of Biological Psychiatry |
| 2003 – Present | International Society for Bipolar Disorders |

Honors

| Year | Title of Award |
|-------------|---|
| 1982 | Columbia University / New York State Psychiatric Institute Resident's Research Award |

1994

Gerald L. Klerman Young Investigator Award of the National
Depressive and Manic Depressive Association

Publications

Refereed Articles Reporting Original Research

1. Bhushan, Abhay, **Ryan ND**: Using MIT-MATHLAB MACSYMA from MIT-DMS MUDDLE – An Experiment in Automated Resource Sharing. *MIT RFC (NIC 19501)*, October, 1973.
2. Gold MS, Pottash ALC, Davies RK, **Ryan N**, Sweeney DR, Martin M: Distinguishing unipolar and bipolar depression by thyrotropin release test. *Lancet*. 2(8139):411-412, 1979.
3. Gold MS, Pottash ALC, **Ryan N**, Sweeney DR, Davies RK, Martin DM: TRH-induced TSH response in unipolar, bipolar, and secondary depressions: Possible utility in clinical assessment and differential diagnosis. *Psychoneuroendocrinology*. 5(2):147-155, 1980.
4. Puig-Antich J, Novacenko H, Goetz R, Corser J, Davies M, **Ryan N**: Cortisol and prolactin responses to insulin induced hypoglycemia in prepubertal major depressives during episode and after recovery. *Journal of the American Academy of Child Psychiatry*. 23(1):49-57, 1984.
5. Sachar EJ, Puig-Antich J, **Ryan N**, Asnis G, Rabinovich H, Davies M, Halpern FS: Three tests of cortisol secretion in adult endogenous depressives. *Acta Psychiatrica Scandinavia*. 71:1-8, 1985.
6. Asnis GM, Halbreich U, Rabinovich H, **Ryan N**, Sachar EJ, Nelson B, Puig-Antich J, Novacenko H: Cortisol response to desipramine in endogenous depressives and normal controls: Preliminary findings. *Psychiatry Research*. 14:225-233, 1985.
7. **Ryan N**, Puig-Antich J, Cooper T, Rabinovich H, Ambrosini P, Davies M, King J, Torres D, Fried J: Imipramine in adolescent major depression: Plasma level and clinical response. *Acta Psychiatrica Scandinavia*. 73:275-288, 1986.
8. Asnis GM, Halbreich U, Rabinovich H, Puig-Antich J, **Ryan N**, Novacenko H: The dexamethasone suppression test (1 mg and 2 mg) in major depression: Illness versus recovery. *Journal of Clinical Psychopharmacology*. 6:294-296, 1986.
9. Goetz R, Puig-Antich J, **Ryan N**, Rabinovich H, Ambrosini P, Nelson B, Krawieci V: Electroencephalographic sleep of adolescents with major depression and normal controls. *Archives of General Psychiatry*. 44:61-68, 1987.
10. **Ryan ND**, Puig-Antich J, Cooper T, Rabinovich H, Ambrosini P, Fried J, Davies M, Torres D, Suckow R: Relative safety of single versus divided dose imipramine in adolescent major depression. *J Am. Acad. Child and Adol. Psychiatry*. 26:400-406, 1987.
11. **Ryan N**, Puig-Antich J, Ambrosini P, Rabinovich H, Robinson D, Nelson B, Iyengar S, Twomey J: The clinical picture of major depression in children and adolescents. *Archives of General Psychiatry*. 44:854-861, 1987.
12. Asnis GM, Halbreich U, **Ryan ND**, Rabinowicz H, Puig-Antich J, Nelson B, Novacenko H, Friedman JH: The relationship of the dexamethasone suppression test (1 mg and 2 mg) to basal plasma cortisol levels in endogenous depression. *Psychoneuroendocrinology*. 12:295-301, 1987.
13. **Ryan ND**, Meyer VA, Dachille S, Mazzie D, Puig-Antich J: Lithium antidepressant augmentation of TCA-refractory depression in adolescents. *Journal Am. Acad. Child and Adolescent Psychiatry*. 27:371-376, 1988.

14. **Ryan N**, Puig-Antich J, Rabinovich H, Fried J, Ambrosini P, Meyer V, Torres D, Dachille S, Mazzie D: MAOIs in adolescent major depression unresponsive to tricyclic antidepressants. *Journal Am. Acad. Child and Adolescent Psychiatry.* 27:755-758, 1988.
15. **Ryan ND**, Puig-Antich J, Rabinovich H, Ambrosini P, Robinson D, Nelson B, Novacenko H: Growth hormone response to desmethylimipramine in depressed and suicidal adolescents. *Journal of Affective Disorders.* 15:323-337, 1988.
16. Dahl R, Puig-Antich J, **Ryan N**, Nelson B, Novacenko H, Twomey J, Williamson D, Goetz R, Ambrosini P: Cortisol secretion in adolescents with major depressive disorder. *Acta Psychiatrica Scandinavia.* 80:18-26, 1989.
17. Puig-Antich J, Goetz D, Davies M, Kaplan T, Davies S, Ostrow L, Asnis L, Twomey J, Iyengar S, **Ryan N**: A controlled family history study of prepubertal major depressive disorders. *Archives of General Psychiatry.* 46:406-418, 1989.
18. Sallee FR, Pollock BG, Perel JM, **Ryan ND**, Stiller RL: Intravenous pulse loading of clomipramine in adolescents with depression. *Psychopharm Bulletin.* 25:114-118, 1989.
19. Puig-Antich J, Dahl R, **Ryan N**, Novacenko H, Goetz D, Goetz R, Twomey J, Klepper T: Cortisol secretion in prepubertal children with major depressive disorder. *Archives General Psychiatry.* 46:801-809, 1989.
20. Dahl R, Puig-Antich J, **Ryan ND**, Nelson B, Dachille S, Cunningham S, Trubnick L, Klepper T: EEG sleep in adolescents with major depressive disorder: The role of suicidality and inpatient status. *Journal Affective Dis.* 19:63-75, 1990.
21. Garcia M, **Ryan ND**, Rabinovich H, Ambrosini P, Twomey J, Iyengar S, Novacenko H, Nelson B, Puig-Antich J: Thyroid stimulating hormone (TSH) response to thyrotropin (TRH) in prepubertal depression. *Journal Am. Acad. Child and Adolescent Psychiatry.* 30:398-406, 1991.
22. Dahl RE, **Ryan ND**, Puig-Antich J, Nguyen NA, Al-Shabbout M, Meyer VA, Perel J: 24-Hour cortisol measures in adolescents with major depression: A controlled study. *Biological Psychiatry.* 30:25-36, 1991.
23. Dahl RE, **Ryan ND**, Birmaher B, Al-Shabbout M, Williamson DE, Neidig M, Nelson B, Puig-Antich J: Electroencephalographic sleep measures in prepubertal depression. *Psychiatry Research.* 38:201-214, 1991.
24. Goetz R, Puig-Antich J, Dahl R, **Ryan ND**, Asnis GM, Rabinovich H, Nelson B: EEG sleep of young adults with major depression: A controlled study. *Journal of Affective Disorders.* 22:91-100, 1991.
25. Waterman GS, **Ryan ND**, Puig-Antich J, Meyer V, Ambrosini PJ, Rabinovich H, Stull S, Novacenko H, Williamson D, Nelson B: Hormonal responses to dextroamphetamine in depressed and normal adolescents. *Journal Am. Acad. Child and Adolescent Psychiatry.* 30:415-422, 1991.
26. Keller MB, Lavori PW, Beardslee WR, Wunder J, **Ryan N**: Depression in children and adolescents: New data on 'undertreatment' and a literature review on the efficacy of available treatments. *Journal of Affective Disorders.* 21:163-171, 1991.
27. Birmaher B, **Ryan ND**, Dahl R, Rabinovich H, Ambrosini P, Williamson D, Novacenko H, Nelson B, Lo ES, Puig-Antich J: Dexamethasone suppression test in children with major depressive disorder. *Journal Am. Acad. Child and Adolescent Psychiatry.* 31:291-297, 1992.

28. Birmaher B, Dahl R, **Ryan ND**, Rabinovich H, Ambrosini P, Al-Shabbout M, Novacenko H, Nelson B, Puig-Antich J: Dexamethasone suppression test in adolescent outpatients with major depressive disorder. *Am. J. Psychiatry.* 149:1040-1045, 1992.
29. Jensen PS, **Ryan ND**, Prien R: Psychopharmacology of child and adolescent major depression: Present status and future directions. *Journal of Child and Adolescent Psychopharmacology.* 2:31-45, 1992.
30. **Ryan ND**, Iyengar S, Perel JM, Kaufman J et al: Psychobiological methodology. *Journal of the American Academy of Child and Adolescent Psychiatry.* 31:752-753, 1992.
31. **Ryan ND**, Williamson DE, Iyengar S, Orvaschel H, Reich T, Dahl RE, Puig-Antich JA: A secular increase in child and adolescent onset affective disorder. *Journal Am. Acad. Child and Adolescent Psychiatry.* 31:600-605, 1992.
32. 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 Am. Acad. Child and Adolescent Psychiatry.* 31:615-621, 1992.
33. 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.* 2:175-181, 1992.
34. **Ryan ND**, Birmaher B, Perel JM, Dahl RE, Meyer V, Al-Shabbout M, Iyengar S, Puig-Antich J: Neuroendocrine response to L-5-hydroxytryptophan challenge in prepubertal major depression: Depressed versus normal children. *Arch. Gen. Psychiatry.* 49:843-851, 1992.
35. 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.
36. Dahl RE, Seigel S, Williamson DE, Lee P, Perel J, Birmaher B, **Ryan ND**: Corticotropin releasing hormone stimulation test and nocturnal cortisol levels in normal children. *Pediatric Research.* 32:64-68, 1992.
37. Waterman GS, **Ryan ND**, Perel JM, Dahl R, Birmaher B, Williamson D, Thomas C, Puig-Antich J: Nocturnal urinary excretion of 6-hydroxy-melatonin sulfate in prepubertal major depressive disorder. *Biological Psychiatry.* 31:582-590, 1992.
38. Jain U, Birmaher B, Garcia M, Al-Shabbout M, **Ryan ND**: Fluoxetine in children and adolescents with mood disorders: A chart review of efficacy and adverse effects. *Journal of Child and Adolescent Psychopharmacology.* 2:259-265, 1993.
39. 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 Am. Acad. Child and Adolescent Psychiatry.* 32:244-253, 1993.
40. Waterman GS, **Ryan ND**: Pharmacological treatment of depression and anxiety in children and adolescents. *School Psychology Review.* 22(2):228-242, 1993.
41. Ryan ND: Pharmacological treatment of child and adolescent depression. *Encephale.* XIX:67-70, 1993.
42. Riddle MA, Geller B, **Ryan N**: Another sudden death in a child treated with desiprmaine. *Journal of The American Academy of Child and Adolescent Psychiatry,* 32:792-797, 1993.

43. 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*. 51:269-282, 1994.
44. Riddle MA, Geller B, **Ryan ND**: The safety of desipramine: Reply. *Journal of the American Academy of Child and Adolescent Psychiatry*. 33:589-590, 1994.
45. Dahl RE, Williamson DE, Birmaher B, **Ryan ND**: EEG sleep in depressed and normal adolescents: The role of stressful life events. *Sleep Research*. 23:195, 1994.
46. Kosanvic BR, Dahl RE, **Ryan ND**, Sclabassi RJ: Sleep onset dynamics characterized by a fuzzy clustering technique. *Sleep Research*. 23:448, 1994.
47. **Ryan ND**, 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 Am. Acad. Child and Adolescent Psychiatry*. 33:824-833, 1994.
48. 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 Am. Acad. Child and Adolescent Psychiatry*. 33:671-678, 1994.
49. 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*. 35:440-445, 1994.
50. Birmaher B, Waterman GS, **Ryan N**, Cully M, Balach L, Ingram J, Brodsky M: Fluoxetine for childhood anxiety disorders. *Journal Am. Acad. Child and Adolescent Psychiatry*. 33:993-999, 1994.
51. Sun M, Dahl RE, **Ryan ND**, Tew K, Kosavovic B, Iyengar S, Sclabassi RJ: Characterization of sleep using the wavelet transform and statistical analysis. *Thirteenth Southern Biomedical Engineering Conference*, University of the District of Columbia, Washington, DC. April 16-17, 1994.
52. Dahl RE, **Ryan ND**, Birmaher B, Al-Shabbout M, Nelson B: Sleep in child depression: Measures during medication free recovered state. *Sleep Research*. 24:158, 1995.
53. Dahl RE, **Ryan ND**, Birmaher B, Al-Shabbout M, Nelson B: EEG sleep measures in child depression. *Sleep Research*. 24:157, 1995.
54. Williamson DE, Dahl RE, Birmaher B, Goetz RR, **Ryan ND**: Stressful life events and EEG sleep in depressed and normal control adolescents. *Biological Psychiatry*. 37:859-865, 1995.
55. Williamson DE, Birmaher B, Anderson BP, Al-Shabbout M, **Ryan ND**: Stressful life events in depressed adolescents: The role of dependent events during the depressive episode. *Journal of the American Academy of Child and Adolescent Psychiatry*, 34:591-598, 1995.
56. Rao U, **Ryan ND**, Birmaher B, Dahl RE, Williamson DE, Kaufman J, Ran R, Nelson B: Unipolar depression in adolescents: Clinical outcome in adulthood. *Journal of the American Academy of Child and Adolescent Psychiatry*. 34:566-578, 1995.
57. Williamson DE, **Ryan ND**, Birmaher B, Kaufman J, Ran U, Puig-Antich J: A case-control family history study of depression in adolescents. *Journal of the American Academy of Child and Adolescent Psychiatry*. 34:1596-1607, 1995.

58. Biederman J, Thisted R, Greenhill L, **Ryan ND**: Estimation of the association between desipramine and the risk for sudden death in 5 to 14 year-old children. *Journal of Clinical Psychiatry*, 56:87-93, 1995.
59. Biederman J, Thisted R, Greenhill L, **Ryan N**: Resolved: Cardiac arrhythmias make desipramine an unacceptable choice in children (negative position). *Journal of the American Academy of Child and Adolescent Psychiatry*, 9:1239-1245, discussion 1245-1248, 1995.
60. 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*, 84:1302-1311, 1996.
61. Dahl RE, **Ryan ND**, Matty MK, Birmaher B, Al-Shabbout M, Williamson DE, Kupfer DJ: Sleep onset abnormalities in depressed adolescents. *Biological Psychiatry*. 39:400-410, 1996.
62. 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*. 40:474-484, 1996.
63. 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 in prepubertal major depression. *Biological Psychiatry*. 39:267-277, 1996.
64. De Bellis 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 American Academy of Child and Adolescent Psychiatry*. 35:1130-1138, 1996.
65. Kye C, Waterman GS, **Ryan ND**, Birmaher B, Williamson D, Iyengar S, Dachille S: A randomized, controlled trial of amitriptyline in the acute treatment of adolescent major depression. *Journal of the American Academy of Child and Adolescent Psychiatry*. 35(9):1139-1144, 1996.
66. Birmaher B, **Ryan ND**, Brent DA, Williamson DE, 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 and Adolescent Psychiatry*. 35(11):1427-1439, 1996.
67. Goetz RR, Wolk SI, Coplan JD, Weissman MM, Dahl RE, **Ryan ND**: Rapid eye movement density among adolescents with major depressive disorder revisited (letter). *Archives of General Psychiatry*, 53:1066-1067, 1996.
68. Birmaher B, **Ryan ND**, Brent DA, Williamson DE, Kaufman J: Childhood and adolescent depression: A review of the past ten years, Part II. *Journal of the American Academy of Child and Adolescent Psychiatry*, 35:1575-1583, 1996.
69. Williamson DE, Birmaher B, Dahl RE, Al-Shabbout M, **Ryan ND**: Stressful life events influence nocturnal growth hormone secretion in depressed children. *Journal of Biological Psychiatry*, 40:1176-1180, 1996.
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71. Birmaher B, Kaufman J, Brent DA, Dahl RE, Perel J, Al-Shabbout M, Nelson B, Stull S, Rao U, Waterman GS, Williamson DE, **Ryan ND**: Neuroendocrine response to 5-Hydroxy-L-Tryptophan in prepubertal children at high-risk of major depressive disorder. *Archives of General Psychiatry*. 54:1113-1119, 1997.

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76. Marcus SC, Olfson M, Fortney JC, **Ryan ND**: Travel distance to subspeciality and general mental health services. *Psychiatric Services*, 48:775, 1997.
77. Kaufman J, Birmaher B, Brent D, Dahl R, Bridges J, **Ryan ND**: Psychopathology in the relatives of depressed-abused children. *Child Abuse and Neglect*, 22:171-181, 1998.
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81. Kaufman J, Birmaher B, Perel J, Dahl R, Stull S, Brent D, Trubnick L, Al-Shabbout M, **Ryan N**: Serotonergic functioning in depressed abused children: Clinical and familial correlates. *Biological Psychiatry*. 44:973-981, 1998.
82. **Ryan ND**, Bhatara VS, Perel JM: Mood stabilizers in children and adolescents. *Journal of the American Academy of Child and Adolescent Psychiatry*. 38:529-536, 1998.
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Bennett Research Award: Developmental traumatology Part II: Brain Development. *Biological Psychiatry*. 45:1271-1284, 1999.
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23. Leonard H, Jensen, PS, Vitiello B, **Ryan ND**, et al: Ethical issues in psychopharmacological treatment research with children and adolescents. *Ethical Issues in Mental Health Research with Children and Adolescents*. K Hoagwood, PS Jensen, CB Fisher (eds), Lawrence Erlbaum Associates, Inc., Mahwah, NJ, 1996.
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Professional Activities

Teaching

- 1984 - Present Lectures to residents and medical students about child and adolescent affective disorders and structured interviewing of children and adolescents, general psychiatry literature and child psychiatry literature, averaging 6 hours per month
- 1989 - Present Research mentor for the following child psychiatry post-docs and junior faculty with description of their current academic institution and career status:
- Scott Waterman, M.D., Professor of Psychiatry and Associate Dean for Student Affairs, University of Vermont
 - Joan Kaufman, Ph.D., Associate Professor of Psychiatry, Yale, has received R01 support as PI
 - Uma Rao, M.D., Professor of Psychiatry, UT Dallas, has received multiple R01 grants as PI
 - Chris Kye, M.D., private practice
 - Michael De Bellis, M.D., Professor of Psychiatry, Duke, won A. E. Bennett award for work he did under my mentorship, has received multiple R01 grants as PI
 - David Axelson, M.D, Associate Professor of Psychiatry, Pittsburgh, has received K award and R01 grant as PI
 - Burl Daviss, M.D. tenure-stream faculty at San Antonio, received NIMH K
 - Doug Williamson, Ph.D., Professor of Psychiatry with endowed chair, San Antonio,
 - Ronald Glick, M.D, University of Pittsburgh Physician's Faculty and the Medical Director of the Center for Integrative Medicine
 - Carol Greco, Ph.D., University of Pittsburgh Research Assistant Professor, Department of Psychiatry Faculty
 - Han-Chun Liang, M.D., University of Pittsburgh Medical Center Resident

Research

- Research Grants
- NIMH Prepubertal Depression: Psychobiology of Early Onset Illness
P01 MH41712-01 July 1, 1986 - June 30, 1991
Program Project grant to Joaquim Puig-Antich, M.D. (Program Director)
PI of project: "Neurobiological markers and mechanisms in prepubertal children with major depressive illness: Stability over time"
30% effort
Assumed role of Program Director January 1990 after death of Dr. Puig-Antich
Total Direct Costs: \$3,151,529 over 5 years
- NIMH Adolescent Major Depression Psychopharmacology
R01 MH41647 January 1988 - December 1991
Principal Investigator - 30% effort
Total Direct Costs: \$290,806 over 4 years
- NIMH Imipramine Treatment of School Refusal
R01 MH45424 April 1990 - March 1994
Principal Investigator - 25% effort
Direct Costs: \$728,337 over 4 years
- NIMH EEG Sleep Changes in Adolescent Depression
MH46510 April 1, 1990 - March 31, 1993
FIRST award FIRST award to Ronald Dahl, M.D.

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| | Co-Investigator - 5% effort Direct Costs: \$206,935 over 3 years |
| NIMH MH18951-03 | Clinical Research Training in Child Psychiatry August 1, 1990 - June 30, 1993 Co-Program Director - 10% David Brent, M.D. - Program Director Direct Costs: \$282,338 over 3 years |
| NIMH MH46894 FIRST award | Amitriptyline vs. Placebo in Adolescent Major Depression April 1, 1991 - March 31, 1996 FIRST award to Boris Birmaher, M.D. Co-Investigator - 5% effort Direct Costs: \$349,849 over 5 years |
| NIMH P01 MH41712-06 | Psychobiology of Depression in Children and Adolescents July 1, 1991 - June 30, 1996 Program Director (overall PI) of this Program Project grant, also 40% effort in aggregate across all projects and cores PI: Project I: "Neurobiological Correlates of Depression: Predictive Validity, Specificity, and Localization of Abnormalities" Co-PI: Project II: "Physiological Maturation of Sleep and Neuroendocrine Regulation" Co-Investigator: Project III: "Biology and Family Adversity in Prepubertal Depression" Director: Administrative Core Total Direct Costs: \$4,726,276 over 5 years |
| NIMH R10 MH48879-01A1 | Lithium Prophylaxis in Adolescents with Bipolar Illness September 1, 1992 - August 31, 1997 Principal Investigator - 15% Direct Costs: \$1,012,441 over 5 years |
| NIMH MH 01022-01 | Depressive Disorders in Maltreated Children SDA September 15, 1992 - August 31, 1997 Michael De Bellis, PI Neal Ryan – Primary Preceptor - 5% Direct Costs: \$418,084 over 5 years |
| SMITHKLINE BEECHAM Protocol 29060/329 | A Multi-Center, Double-Blind, Placebo-Controlled Study of Paroxetine and Imipramine in Adolescents with Unipolar Major Depression January 1, 1994 - December 31, 1997 Principal Investigator - 5% Direct Costs: \$684,050 over 3 years |
| NIMH MH18951-04 | Clinical Research Training in Child Psychiatry/Competing Continuation July 1, 1994 - June 30, 1999 Co-Program Director - 10% David Brent, M.D. – Program Director Direct Costs: \$1,629,911 over 5 years |
| NIMH MH41712-12 | The Psychobiology of Childhood Anxiety and Depression March 1, 1997 - February 28, 2002 Program Director (overall PI) of this Program Project grant, also |

30% effort in aggregate across all projects and cores

Co-PI: Project I: 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: Administrative Core
Total Direct Costs: \$5,091,855 over 5 years

SMITHKLINE
BEECHAM
Protocol 29060/453

A 38-week, Two Phase, Multicenter Study to Investigate the Safety & Effectiveness
of Paroxetine (10-60 mg/day) in the Treatment of Children & Adolescent
Outpatients with Obsessive-Compulsive Disorder
December 1, 1996 - November 30, 1998
Co-Principal Investigator - 2.5%
Boris Birmaher, M.D. – Principal Investigator
Direct Costs: \$144,802 over 2 years

NIMH
MH53681-01A2

Fluoxetine for Anxious Children
June 1, 1997 - May 31, 2001
Co-Investigator - 2.50%
Boris Birmaher, M.D. – Principal Investigator
Direct Costs: \$459,849 over 4 years

NIMH
MH55123-01A1

CADPRC for Early Onset Affective and Anxiety Disorders
August 1, 1997 - July 31, 2002
Co-Investigator: Treatment Core - 5%
Co-Investigator: Administrative Core - 10%
David Brent, M.D. – Principal Investigator
Direct Costs: \$3,808,742 over 5 years

NIMH
MH70008

Research Units on Pediatric Psychopharmacology (RUPP)
September 30, 1997 - February 28, 2003
Co-Investigator - 5%
Boris Birmaher, M.D. – Principal Investigator
Direct Costs: \$312,502 over 3 years

Wyeth-Ayerst
Protocol
0600-B1-382-US

Double-Blind, Placebo-Controlled Study of Venlafaxine ER in Children and
Adolescents with Major Depression
December 1, 1997 - November 30, 1999
Principal Investigator - 5%
Boris Birmaher, M.D. – Principal Investigator
Direct Costs: \$146,560 over 2 years

Medex Clinical Trial
Services
29060/329 Follow-Up

Paroxetine Naturalistic Follow-Up Study
January 1, 1998 - July 17, 1999
Principal Investigator - 5%
Direct Costs: \$27,000 over 1 year

National Library of
Medicine
NLM
1 G08 LM006625-05

IAIMS Implementation: Advancing the Academic Mission
May 1, 1998 – April 30, 2003
Co-Investigator - 5%
Direct Costs: \$2,700,000 over 5 years
Charles Friedman, M.D. – Principal Investigator

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| NIMH MH 64851-01A1 | Treatment of Early Age Mania September 24, 2002 – August 31, 2004 Co-Investigator – 10% David Axelson, M.D. – Principal Investigator Direct Costs: \$282,847 |
| NIAA AA12504-03 | Sleep/Arousal in Adolescence: Pathways to Alcohol Abuse May 1, 2000 - April 30, 2005 Co-Principal Investigator - 2.50% Ronald Dahl, M.D. – Principal Investigator Direct Costs: \$990,474 |
| NIMH MH 59929-03 | Course and Outcome for Adolescents with Bipolar Illness August 1, 2000 - July 30, 2005 Co-Principal Investigator - 5% Boris Birmaher, M.D. – Principal Investigator Direct Costs: \$882,492 |
| NIMH MH 61835-03 | Treatment of SSRI Resistant Depression in Adolescents September 22, 2000 – August 31, 2005 Co-Principal Investigator – 5% David Brent, M.D. – Principal Investigator Direct Costs: \$1,888,860 over 5 years |
| NIMH MH 61596-02 | Neuroimaging Markers of Vulnerability to Depression July 1, 2001 – June 30, 2005 Co-Investigator – 5% Ronald Dahl, M.D. – Principal Investigator Direct Costs: \$1,718,534 |
| NIMH MH 66371-01 | Operations Core-Advanced Center for Intervention & Services Resources for Early Onset Mood & Anxiety Disorder August 1, 2002 – July 31, 2007 Co-Investigator – 10% David Brent, M.D. – Principal Investigator Direct Costs: \$420,838 |
| NIMH P01 MH41712-16A1 | Neurobehavioral Changes in Pediatric Affective Disorders September 24, 2002 – June 30, 2007 Program Director (overall PI) of this entire Program Project grant, also Co-PI: Project I: “Mood, Motivation, & Behavioral Choice in Pediatric Affective Disorders: Behavioral Substrates of Risk, Episode, Treatment and Recovery” Project II: “Clinical and Psychosocial Outcomes of Pediatric Affective Disorders During Adolescence & Young Adulthood” Project III: “fMRI Investigations of Reward- Contingent Decision-Making in Child and Adolescent Affective Disorders” Project IV: Neurobehavioral Phenomenology Of Adolescent Bipolar Disorder Approx Total Direct Costs: \$5,500,000 over 5 years |

NIMH
R01 MH62568-01A2 Genetics of Anxious/Depression Behaviors in Macaques
December 16, 2002 – June 30, 2007
Co-investigator – 5%
Judy Cameron, M.D. – Principal Investigator
Total Costs – \$2,866,752 over 5 years

NIMH
R25 MH068367-01A1 Child Intervention Prevention & Service Summer Institute
September 27, 2004 – June 31, 2009
Principal Investigator – 12.5%
Neal Ryan - Principal Investigator
Total Costs - \$1,176,439 over 5 years

NIDA
R21 DA024144 Emotion Regulation in Adolescence: A Social Affective Neuroscience Approach
September 26, 2007 – July 31, 2011
Jennifer Silk, Ph.D. – Principal Investigator
Co-Investigator - 2.5% effort
Total Direct Costs: \$808,623 over 4 years

NIDA
R01 DA018910 Pubertal Maturation & Drug Use Vulnerability
September 30, 2004 – August 31, 2009
Ronald Dahl, M.D. - Principal Investigator
Co-Investigator – 2.5% effort
Total Direct Costs: \$1,587,323 over 5 years

NCCAM
R21 AT003969-01A1 Prolotherapy for Chronic Lateral Epicondylitis
September 1, 2007 – August 31, 2010
Ronald Glick, M.D. – Principal Investigator
Co-Investigator – 5% effort
Total Direct Costs: \$450,000 over 3 years

NIH
R01 MH073953-03 Longitudinal Assessment of Manic Symptoms (LAMS)
September 16, 2005 – June 30, 2010
Boris Birmaher, M.D. – Principal Investigator
Co-Investigator – 5% effort
Total Direct Costs: \$1,803,758 over 5 years

NIMH
P50 MH080215-01A1 Transdisciplinary Studies of CBT for Anxiety in Youth
June 1, 2008 – May 31, 2013
Program Director (overall Co-PI) of this entire grant, also
PI: Core I: “Operations and Clinical Assessment Core” – 15% effort
Co-I: Project I: “Cognitive and Affective Features of Youth Anxiety: From
Brain Mechanisms to Recovery” – 10% effort
Core II: “Research Methods Core” – 5% effort
Total Direct Costs: \$9,795,710 over 5 years

NIMH
R01 MH091327-01 Puberty and Threat/Reward Processing in the Trajectory from Anxiety to Depression
August 24, 2010 – June 30, 2015
Jennifer Silk, Ph.D. – Principal Investigator
Co-Investigator – 15% effort
Total Directs Costs: \$2,406,293

Other Research and Scientific Activities

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| 1988 - 1992 | Examiner, Adult Psychiatry, American Board of Psychiatry and Neurology |
| 1988 - Present | Reviewer, <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> |
| 1988 - 1991 | NIMH Small Grants Initial Review Group, member |
| 1989 - 1991 | Editorial Board, <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> |
| 1989 - Present | Reviewer, <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> |
| 1989 - 1991 | Scientific Committee, American Academy of Child & Adolescent Psychiatry, Member |
| 1990 - 1998 | Editorial Board, <i>Journal of Child and Adolescent Psychopharmacology</i> |
| 1990 - 1992 | DSM-IV child affective disorders subcommittee, member |
| 1990 - Present | Work Group on Research, American Academy of Child & Adolescent Psychiatry, member |
| 1992 - 1997 | NIMH Child Psychopathology and Treatment Initial Review Group, member |
| 1992 - 1999 | Associate Editor, <i>Journal of Child and Adolescent Psychopharmacology</i> |
| April 1992 | Roerig Visiting Professor in child psychiatry, University of Texas at Galveston |
| 1992 - Present | Reviewer, <i>Psychoneuroendocrinology</i> |
| 1992 - Present | Reviewer, <i>Clinical Psychology Review</i> |
| 1992 - Present | Reviewer, <i>Journal of Abnormal Child Psychology</i> |
| 1992 - Present | Reviewer, <i>Journal of Affective Disorders</i> |
| 1992 - Present | Reviewer, <i>Journal of Child Psychology and Psychiatry</i> |
| 1992 - 1993 | Program Committee, Society for Research in Child and Adolescent Psychiatry |
| 1992 - 1996 | Cooperative Studies Program Evaluation Committee (CSEC), National Advisory Committee, Department of Veterans Affairs |
| 1995 - Present | National Depressive and Manic-Depressive Association, Science Advisory Board |
| 1997 - 2000 | Scientific Advisory Committee, American Psychiatric Association Practice Research Network. Member |
| 1997 - 2000 | Grants and Oversight Committee, American Academy of Child and Adolescent Psychiatry, Member |

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| 1998 - Present | Editorial Board, <i>Bipolar Disorder, International Journal of Psychiatry and Neurosciences</i> |
| 1999 - 2002 | Editorial Board, <i>Biological Psychiatry</i> |
| 1999 - Present | Professional Advisory Committee, Child and Adolescent Bipolar Foundation |
| 2001 – 2006 | Vice Chair of the Professional Advisory Council, Child and Adolescent Bipolar Foundation (CABF) |
| 2002 – Present | Member, Scientific Council, NAMI |
| 2002 – 2004 | Member, Provosts Ad Hoc Committee on Academic Freedom, University of Pittsburgh |
| 2002 – 2004 | Joint Advisory Committee, University of Pittsburgh – UPMC Health System Network Security Agreement |
| 2004 - 2005 | Member of the FDA Psychopharmacologic Drugs Advisory Committee |
| 2006 – Present | Program Committee, American College of Neuropsychopharmacology |
| 1999 – Present | K-12 American Academy of Child and Adolescent Psychiatry Committee |
| 2006 – Present | eAACAP Advisory Committee |
| 2006 – Present | Chair, Program Committee, American Academy of Child and Adolescent Psychiatry |

Service

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|----------------|--|
| 1987 - 1990 | Biomedical Institutional Review Board |
| 1987 - 2002 | Pharmacy and Therapeutics Committee |
| 1987 - 1988 | Chair, Ad Hoc committee to write procedural guidelines for non-clinical research staff having contact with patients or non-patient research subjects |
| 1988 - Present | Academic Promotions Committee |
| 1988 - 1990 | WPIC/Mayview Joint Research Committee |
| 1988 - 2000 | WPIC Seed Monies Review Committee |
| 1995 - Present | Scientific Advisory Committee for the Functional Imaging Research Program |
| 1994 – Present | Member, Department of Psychiatry/Western Psychiatric Institute and Clinic Executive Committee |
| 2001 – Present | Member, Curriculum Committee, University of Pittsburgh School of Medicine |
| 2002 – 2004 | Member, Provost's Ad Hoc Committee on Academic Freedom, University of Pittsburgh |
| 2006 – Present | Chair, WPIC Diversity Committee |
| 2006 – Present | Member, WPIC Academic Council |

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| 2006 – Present | Member, Physician Services Division Diversity Committee |
| 2007 – Present | Chair, Clinician Educator’s Committee |
| 2009 – Present | Member, WPIC Clinical Executive Committee |
| 2010 – Present | National Alliance on Mental Illness, Scientific Council |