

# **JOHN K. DARBY, M.D.**

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## EDUCATION:

University of North Texas	B.A.	1963	Biology
University of Texas – Southwestern	M.D.	1967	Medicine
University of Utah	Intern	1968	Medicine
University of Utah	Fellow	1971	Psychiatry

## ACADEMIC HONORS:

National Foundation Merit Award, Congenital Birth Defects, 1967  
Falk Fellow, APA, Psychiatry and the Law, 1970 – 1971  
Session President, International Phonetics Society, 1977  
The New York Academy of Sciences, Active Member, October 1985

## CERTIFICATIONS:

1968	National Board of Medical Examiners, Diplomat
1969-70	Utah Court Examiner
1973	American Board of Psychiatry and Neurology; Adult Psychiatry
1996	American Board of Psychiatry and Neurology; Geriatric Psychiatry

## CONSULTANT APPOINTMENTS:

VA Hospital, Department of Psychiatry, Salt Lake City, Utah; 1969-71  
VA Hospital, Department of Psychiatry, Temple, Texas; 1974-75  
NIH and PHS Scientific Review; 1988  
Agnews State Hospital, Consultant in Neuropsychiatry, San Jose, California; 1990-Present

## RESEARCH AND PROFESSIONAL EXPERIENCES:

1991 – 1995	Consultant (editorial), Department of Medical Genetics, University of Antwerp, Antwerp, Belgium
1988 – 1990	NIH and PHS Scientific Review Consultant
1986 – Present	President, SPECOM Research, Palo Alto, California
1986 – 1988	Research Associate, Neurobiology and Genetics, Stanford University School of Medicine, Stanford, California
1982 - 1986	Postdoctoral Scholar, Neurobiology and Genetics, Stanford University School of Medicine , Stanford, California
1975 – Present	Teaching Faculty, San Mateo County Mental Health

1974 – 1985            Residency Training, San Mateo, California  
 Adjunct Associate Research Scientist, Institute for  
 Advanced Study of Communication Processes (IASCP),  
 University of Florida, Gainesville, Florida

1973 – 1975            Director of Research and Education, Psychiatry,  
 Scott and White Hospital and Clinic, Temple, Texas

1971 – 1973            Assistant Clinical Professor of Psychiatry,  
 University of Texas Medical School, San Antonio, Texas

1971 – 1973            Residency Training Staff and Psychiatrist, Major, USAF  
 Wilford Hall Hospital, San Antonio, Texas

COMMITTEES:

APA Committee on Psychiatry and the Law; 1970-71  
 Psychiatric Residency Training Committee, Wilford Hall Hospital, Lackland AFB, Texas; 1971-73  
 Medical School Curriculum Committee, Texas A&M, Baylor, Schott and White Consortium; 1974-75  
 Chairman, Medical Audit Committee, Psychiatry, Sequoia Hospital; 1976-77  
 ECT Audit Committee, San Mateo County; 1976-81  
 Chairman, CME Committee, Psychiatry Section, Sequoia Hospital; 1976-77  
 Secretary, Psychiatry Section, Sequoia Hospital; 1977-79  
 CME Committee, Psychiatry Program Director, Harold D. Chope Hospital, San Mateo;  
 1977-82  
 Medical Audit Committee, Harold D. Chope Hospital, San Mateo; 1977-78  
 Pharmacy and Infection Control Committee, Harold D. Chope Hospital, San Mateo; 1981-82  
 Psychobiology Research Committee, NCPS; 1982-85

HOSPITAL AFFILIATIONS:

Harold D. Chope Hospital, San Mateo; Psychiatry, Active Staff; 1975-Present  
 Sequoia Hospital, Redwood City, Psychiatry, Active Staff; 1975-79  
 Stanford Hospital, Stanford, Psychiatry, Courtesy Staff, 1976-81; Associate Staff, 1981-89  
 El Camino Hospital, Mountain View, Psychiatry, Courtesy Staff; 1976-80  
 Alameda County Medical Center, Oakland, Psychiatry, Courtesy Staff; 1991-Present

PROFESSIONAL SOCIETIES:

American Psychiatric Association, 1970-Present  
 California Psychiatric Association, 1976-Present  
 San Mateo County Psychiatric Association, 1980-Present  
 International Society of Phonetic Sciences (ISPhS), 1978-  
 American Association of Phonetic Sciences (AAPS), 1978-  
 Academy for the Forensic Application of the Communication Sciences, 1978

LICENSURES:

Texas, D4085; 1967-86

Utah, 4031; 1969-87  
California, G24178; 1973-Present

JOURNAL APPOINTMENTS:

Associate, The Behavioral and Brain Sciences, Cambridge University Press, 1982-85

EDITOR:

1. Darby, John K. (Ed.), 1981. Speech Evaluation in Psychiatry, New York, Grune & Stratton, Inc.
2. Darby, John K. (Ed.), 1981. Speech Evaluation in Medicine, New York, Grune & Stratton, Inc.
3. Darby, John K. (Ed.), 1985. Speech and Language Evaluation in Neurology – Adult Disorders, Orlando, Grune & Stratton, Inc.
4. Darby, John K. (Ed.), 1985. Speech and Language Evaluation in Neurology – Childhood Disorders, Orlando, Grune & Stratton, Inc.

CHAPTERS:

1. Darby, J.K. 1981. "Speech and Voice Studies in Psychiatric Populations." In John Darby (Ed.), Speech Evaluation in Psychiatry, New York, Grune & Stratton, Inc. 253-284
2. Darby, J.K. 1981. "The Interaction Between Speech and Disease." In John Darby (Ed.), Speech Evaluation in Medicine, New York, Grune & Stratton, Inc. 3-44
3. Darby, J.K. 1985. "Epidemiology of Neurologic Diseases That Produce Communication Disorders." In John Darby (Ed.), Speech and Language Evaluation in Neurology – Adult Disorders, Orlando, Grune & Stratton, Inc. 29-41
4. Darby, J.K., Kidd, K.K. and Cavalli-Sforza, L.L., 1985. "Molecular Genetics in Speech and Language Disorders," In John Darby (Ed.), Speech and Language Evaluation in Neurology – Childhood Disorders, Orlando, Grune & Stratton, Inc. 259-270

COMPUTER PROGRAM DESIGN:

1. Burcham, T.S., and Darby, J. K., 1987. VPSTATS and VISI: Speech analysis programs for research, Specom Research
2. Shepard, J., and Darby, J.K., 1987 . SPECOM: A Lotus template for speech analysis. Specom Research
3. Shepard, J., and Darby, J.K., 1988. ALGOWRITE: A Lotus template. Specom Research
4. Burcham, T.S., and Darby, J. K., 1991. SPECOM-MAC; Speech Analysis on the Mac. Specom Research

## ARTICLES:

1. Kinney, J.P. and Darby, J.K., 1967. Radiation hazards and congenital malformations, National Foundation Merit Award Series.
2. Darby, J.K., 1968. Neuropsychiatric aspects of Addison's Disease, University of Utah Annals of Neurology.
3. Darby, J.K., 1976 Neuropathologic aspects of psychosis in children, Journal of Autism and Childhood Schizophrenia, 6:339-352
4. Darby, J.K. and Hollien, H., 1977. Vocal and speech patterns of depressive patients, Folia Phoniatica, 29:279-291.
5. Darby, J.K. and Sherk, A., 1979. Speech studies in psychiatric populations, In Harry Hollien and Patricia Hollien (Eds.), Current Issues in the Phonetic Sciences, Vol. 9 (Part II), Amsterdam, John Benjamins B.V., 599-608.
6. Hollien, H. and Darby, J.K., 1979. Acoustic comparisons of psychotic and nonpsychotic voices. In Harry Hollien and Patricia Hollien (Eds.), Current Issues in the Phonetic Sciences, Vol. 9 (Part II), Amsterdam, John Benjamins B.V., 609-614.
7. Darby, J.K. 1982. Advances in schizophrenia research; neuropathologic findings, The Behavioral and Brain Sciences, 5:598-599.
8. Darby, J.K.; Simmons, N., and Berger, P.A. 1984. Speech and Voice Parameters of Depression: A pilot study, Journal of Communication Disorders, 17: 75-85.
9. Darby, J.K., Feder, J., Selby, M., Riccardi, V., Ferrell, R., Siao, D., Goslin, K., Rutter, W., Shooter, E. M., and Cavalli-Sforza, L.L., 1985 Discordant sibship analysis between B-NGF and disseminated neurofibromatosis, Am., Jour. Hum. Gen., 37:52-59.
10. Feder, J., Gurling H. M.D., Darby, J.K. and Cavalli-Sforza, L.L., 1985. DNA restriction fragment analysis of the proopiomelanocortin gene in schizophrenia and bipolar disorders, Am., Jour. Hum. Gen., 37:286-294.
11. Darby, J.K., Kidd, J.R., Pakstis, A.J., Sparkes, R.S., Cann, H.M., Ferrell, R.E., Gerhard, D.G., Riccardi, V., Egeland, J.A., Shooter E.M., Cavalli-Sforza, L.L., and Kidd, K.K., 1985. Linkage relationships of the gene for the B subunit of nerve growth factor (NGFB) with other chromosome 1 marker loci. Jour. Of Cytogenetics and Cell Genetics, 39:158-160.
12. Darby, J.K., Kidd, J.R., Feder, J., Riccardi, V., Ferrell, R.E., Shooter E.M., Kidd, K.K., and Cavalli-Sforza, L.L., 1985. Linkage analysis between disseminated neurofibromatosis and chromosome 1 markers. (Abs.) Eighth International Human Gene Mapping Workshop. Helsinki, Finland. Karger, 611.
13. Darby, J.K., Goslin, K., Riccardi, V., Huson, S., Ferrell, R., Kidd, J.R., Seizinger, B., Ferrier, J., Shooter E.M., and Cavalli-Sforza, L.L., 1986. Linkage analysis between NGFB and other chromosome 1p markers and disseminated neurofibromatosis. In A.E. Rubenstein, R.P. Bunge, and D.E. Housman (Eds.), Neurofibromatosis. New York Acad. Sciences, 486:311-326.
14. Kidd, K.K., Kidd, J.R., Castiglione, C., Genel, M., Darby, J.K., Cavalli-Sforza, L.L., and Gusella, J.F., 1986. Linkage analyses of multiple endocrine neoplasia, type 2A (MEN-2A) with 20 DNA polymorphisms: 5% of the genome excluded. Human Heredity, 36:243-249.
15. Darby, J.K., Johnsen, J., Nakashima, P., Willems, P., O'Brien, J.S., Fowler, M.L., Shows, T.B., Shooter E.M., and Cavalli-Sforza, L.L., 1986. Pvu II RFLP at the human chromosome 1 alpha-L-fucosidase gene locus. Nucleic Acids Research, 14:9543.

16. Gebicke-Haerter, P., Darby, J.K., Shooter E.M., Riccardi, V.M., Weisgraber, K., Boyles, J., and Mahley, R., 1987. Apolipoprotein E expression in neurofibrosarcoma and schwannoma cell cultures from two individuals with neurofibromatosis. *Exp. Neurol.*, 95:323-335.
17. Ferrell, R.E., Buetow, K.H., Darby, J.K., Eichner, J.E., Murray, J.C., Smith, R., Waziri, M., Huson, S., and Riccardi, V.M., 1987. Von Recklinghausen neuro-fibromatosis: A linkage study of candidate and random marker genes. *Jour. of Med. Genetics*, 24:522-524.
18. O'Brien, J.S., Willems, P.J., Fukushima, H., de Wet, J.R., Darby, J.K., DiCioccio, R.A., Fowler, M.L., and Shows, T.B., 1987. Molecular biology of the alpha-L-fucosidase gene and fucosidosis. *Enzyme*, 38:45-53.
19. O'Brien, J.S., Willems, P.J., Darby, J.K., and DiCioccio, R.A. 1987. A structural alteration of the FUCA 1 gene in fucosidosis. *Abstract. Am. Jour. Hum. Gen.*, 41:A231.
20. Tam, A.W., Darby, J.K., and Riccardi, V.M., 1988. Expression of selected growth factors and oncogenes in neurofibrosarcoma complicating von Recklinghausen disease. *Neurofibromatosis*, 1:69-84.
21. Darby, J.K., Willems, P.J., Nakashima, P., Henke, J., Ferrell, R.E., Johnsen, J., Wijsman, E. M., Gerhard, D., Dracopoli, N.C., Housman, D., Fowler, M.L., Shows, T.B., O'Brien, J.S., and Cavalli-Sforza, L.L., 1988. Restriction and analysis and linkage of the structural alpha-L-fucosidase gene in fucosidosis. *Am. Jour. Hum. Gen.*, 43:749-755.
22. Willems, P.J., Darby, J.K., DiCioccio, R.A., Nakashima, P., Eng, C., Kretz, K.A., Cavalli-Sforza, L.L., Shooter E.M., and O'Brien, J.S., 1988. Identification of a mutation in the structural alpha-L-fucosidase gene in fucosidosis. *Am. Jour. Hum. Gen.*, 43:756-763.
23. Willems, P.J., Garcia, C., DeSmedt, M.C.H., Martin-Jimenez, R., Darby, J.K., and O'Brien, J.S., 1988. Intrafamilial variability in fucosidosis. *Clinical Genetics*, 34:7-14.
24. DiCioccio, R.A., Darby, J.K., O'Brien, J.S., and Willems, P.J., August 1988. Alpha-L-fucosidase in fucosidosis. *Abstract. The Protein Society*.
25. DiCioccio, R.A., Darby, J.K., O'Brien, J.S., and Willems, P.J., 1988. Alpha-L-fucosidase in fucosidosis. *Abstract. Annual meeting of the Society for Complex Carbohydrates*.
26. Stephens, K., Green, P., Riccardi, V.M., Ng, S., Rising, M., Barker, D., Darby, J.K., Falls, K.M., Collins, F.S., Willard, H.F., and Donis-Keller, H., 1989. Genetic analysis of eight loci tightly linked to Neurofibromatosis 1. *Am. Jour. Hum. Gen.*, 44:13-19.
27. Kretz, K.A., Darby, J.K., Willems, P.J., and O'Brien, J.S., 1989. Characterization of the Eco R1 mutation in fucosidosis patients: A stop codon in the open reading frame. *Jour of Mol. Neurosciee*, 1:177-180.
28. DiCioccio, R.A., Darby, J.K., and Willems, P.J., 1989. Abnormal expression of alpha-L-fucosidase in lymphoid cell lines of fucosidosis patients. *Biochemical Genetics*, 27:Nos. 5/6, 279-290.
29. Welch, H.M., Darby, J.K., Pilz, A.J., Ko, C.M., and Carritt, B., 1989. Transposition, amplification and divergence in the origin of the DNF 15 loci. A polymorphic repetitive sequence family on chromosomes 1 and 3., *Genomics*, 5:423-430.
30. Willems, P.J., Carritt, B., Coucke, P., Darby, J.K., Van der Auwera, B.J. and O'Brien, J.S., 1990. Bcl 1 RFLP in the fucosidase pseudogene on chromosome 2. *Nucleic Acids Research*, 18:5583.
31. Willems, P.J., Gatti, R., Darby, J.K., Romeo, G., Durand, P., Dumon, J.E., and O'Brien, J.S., 1991. Fucosidosis revisited: A review study of 77 patients. *Am. Jour. Med. Genet.*, 38:111-131.

32. Darby, J.K., and Clark, L.D., 1992. Autism syndrome as a final common pathway of behavioral expression for many organic disorders. *Amer. Jour. Psychiat.*, 149:1:146-147.
33. Reyniers, E., Vits, L., DeBouille, K., Van Roy, B., Van Velzen, D., de Graaff, E., Verkerk, A.J.M.H. Jorens, H.Z.J., Darby, J.K., Oostra, B., and Willems, P.J., 1993. The full mutation in the FMR-1 gene of male fragile X patients is absent in their sperm. *Nature Genetics.*, 4:143-146.
34. Van Camp, G., Vits, L., Coucke, P., Lyonnet, S., Schrandt-Stumpel, C., Darby, J.K., Holden, J., Munnich, A., and Willems, P.J., 1993. A duplication in the L1CAM gene associated with X-linked hydrocephalus. *Nature Genetics.*, 4:421-425.
35. Dabiri, L.M., Pasta, D., Darby, J.K., and Mosbacher, D., 1994. Effectiveness of Vitamin E for treatment of long-term tardive dyskinesia. *Amer. Jour. Psychiat.*, 151:6:925-926.
36. Bakker, C.E., Verheij, C. Willemsen, R., van der Helm, R., Oerlemans, F., Vermey, M., Bygrave, A., Hoogeveen, A.T., Oostra, B.A., Reyniers, E., De Bouille, K., D'Hooge, R., Cras, P., van Velzen, D., Nagels, G., Martin, J.J., De Deyn, P.P., Darby, J.K., and Willems, P.J., 1994. Fmr knockout mice: A model to study fragile X mental retardation. *Cell*, 78:1-11.
37. Coucke, P., Van Camp, G., Djoyodiharyo, B., Smith, S.D., Frants, R.R., Padberg, G.W., Darby, J.K., Huizing, E.H., Cremers, W.R.J., Kimberling, W.J., Oostra, B.A., Van de Heyning, P.H., and Willems, P.J., 1994. Linkage of autosomal dominant hearing loss to the short arm of chromosome 1 in two families., *New England Jour. of Medicine*, 331:7:425-431.
38. Vits, L., DeBouille, K., Reyniers, E., Handig, I., Darby, J.K., Oostra, B., and Willems, P.J., 1994. Apparent regression of the CGG repeat in FMR1 to an allele of normal size. *Hum Genet.*, 94:523-526.
39. Darby, J.K., Pasta, D., Dabiri, L., Clark, L., and Mosbacher, D., 1995. Haloperidol dose and blood level variability: Toxicity and interindividual and intraindividual variability in the nonresponder patient in the clinical practice setting. *Jour. of Clin. Psychopharm*, 15:5:334-340.
40. Darby, J.K., Pasta, D., Elfand, L., Dabiri, L., Clark, L., and Herbert, J., 1997. risperidone dose and blood level variability: Accumulation effects and interindividual and intraindividual variability in the nonresponder patient in the clinical practice setting. *Jour. of Clin. Psychopharm*, 17:6:478-484.
41. Darby, J.K., Marynen, P., Johnsen, J., Shows, T.B., Cavalli-Sforza, L.L., and Shooter E.M., 1991. Hinc II RFLP on chromosome 2 at a unique human segment D2S. *Nucleic Acids Research* , (in prep.)
42. Darby, J.K., Pasta, D., Wilson M., and Herbert, J., 2008. Long-Term Therapeutic Drug Monitoring of Risperidone and Olanzapine Identifies Altered Steady-State Pharmacokinetics, *Clin. Drug Invest*; 28 (9):553-564.
43. Darby, J.K., Pasta, D., 2009. Body Mass Index and Weight Gain as Alternative or Complementary Hypothesis to Explain Olanzapine Concentration-Dose Ratio Accumulation. *Clin Drug Invest* 2009; 29(2):1

RESEARCH GRANTS AND AWARDS:

1. Fellowship in Psychiatry, University of Utah, NIMH Psychiatry Training Grant under C.H. Hardin Branch, M.D., 1968-1971.
2. Research Assistant, Biobehavioral Research Labl University of Utah, NIMH project grant on autism; under Lincoln Clark, M.D., Summer 1971.

3. "Speech and Voice Symptoms of Depression" to John Darby: Scott and White Research Foundation: 4600 plus time allocation; 1974-75. "Speech Evaluation in Psychiatry", book grant-in-aid to John Darby; Commonwealth Foundation; \$3,000; 1979-81.
4. "The Voice and Psychosis", Voice Foundation, RG #028, Performance site-IASCP and Choje Hospital; \$10,000; under Harry Hollien, PhD; University of Florida: April 1981-April 1982.
5. "Molecular Genetics and Mental Illness", private gift from Anita Hecht to Stanford Department of Neurobiology and John Darby; \$20,000; under Eric Shooter, Ph.D; 1982-86.
6. "Molecular Biology of NGF", Robert J Kleberg and Helen C. Kleberg Foundation to Stanford Department of Neurobiology; \$20,000 under Eric Shooter, Ph.D; 1982-86.
7. National Research Service Award, NIMH Postdoctoral Fellowship in Neurobiology to John Darby; 1 F32 MH08944-01; \$42,000; under Eric Shooter, Ph.D; December 1982-December 84.
8. The NGF Gene and Neurofibromatosis:, National Neurofibromatosis Foundation to Stanford Department of Genetics; \$9,500; under L.L. Cavalli-Sforza, M.D.,; 1983-84; Renewed July 1984-July 1985.
9. "NGF and Disease", NIH GM 28428 to Stanford Department of Neurobiology; \$180,000; under Eric Shooter, Ph.D; December 1983- December 1986.
10. "Linkage Analysis of Neurofibromatosis" NINCDS to Stanford Department of Genetics; \$300,000; under L.L. Cavalli-Sforza, M.D., September 1986 – September 1989.
11. "NGF and Disease", NIH GM 28428 to Stanford Department of Neurobiology; \$200,000; under Eric Shooter, Ph.D; December 1986- December 1988.
12. "Computerize Speech Analysis", NIH NIDOCs SBIR R43 NS 27803-01 to Specom Research; P.I. John Darby; \$50,000; 1990.
13. "Risperidone Dose and Blood Level Variability: Accumulation Effects and Interindividual and Intraindividual Variability in the Nonresponder Patient in the Clinical Practice Setting" to Specom Research; P.I. John Darby; \$15,000; 1997 (from Eli Lilly).