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PERSONAL INFORMATION:

Date of Birth: June 5, 1956
Place of Birth: Toronto, Ontario, Canada
Citizenship: United States of America
Marital Status: Married
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EDUCATIONAL BACKGROUND:

1974-1978 B.A., Department of Biology, College of Arts and Sciences, University of Pennsylvania, Philadelphia, Pennsylvania.

1978-1984 M.D., School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania.

1978-1984 Ph.D., Graduate Group in Anatomy, Faculty of Arts and Sciences, University of Pennsylvania, Philadelphia, Pennsylvania.

1984-1985 General Medical Internship, Department of Medicine, Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pennsylvania.

1985-1987 Neurology Residency, Department of Neurology, Stanford University Medical Center, Stanford, California.

1987-1988 Chief Resident in Neurology, Department of Neurology, Stanford University Medical Center, Stanford, California.

1990 Board Certification in General Neurology, American Academy of Neurology.

EMPLOYMENT AND APPOINTMENTS:

1988-1996 Director, Neurology Consultation Services, Clinical Brain Disorders Branch, National Institute of Mental Health, St. Elizabeths Hospital, Washington, D.C.

1988-1996	Special Volunteer, Laboratory of Neuropathology, Clinical Brain Disorders Branch, National Institute of Mental Health, Washington, D.C.
1988-2010	Private Practice, Behavioral Neurology and Neuropsychiatry, Chevy Chase, Maryland.
1996-2010	Senior Staff Scientist, Neuropathology Section, Clinical Brain Disorders Branch, National Institute of Mental Health, IRP, NIH, Bethesda, Maryland.
1990-present	Clinical Instructor, Department of Neurology, George Washington University Medical School, Washington, D.C.
2010-2011	Acting Chief Operating Officer, Lieber Institute for Brain Development, Baltimore, Maryland.
2010-2016	Chief Operating Officer, Lieber Institute for Brain Development, Baltimore, Maryland.
2010-2013	Special Volunteer, Neuropathology Section, Clinical Brain Disorders Branch, National Institute of Mental Health, IRP, NIH, Bethesda, Maryland.
2012-present	Adjunct Professor, School of Life Sciences, Peking University, Beijing, China.
2013-present	Associate Professor, Department of Psychiatry and Behavioral Sciences, Johns Hopkins School of Medicine, Baltimore, Maryland.
2013-present	Associate Professor, Department of Neurology, Johns Hopkins School of Medicine, Baltimore, Maryland.
2013-2015	Member, State of Maryland Life Sciences Advisory Board, Annapolis, Maryland.
2014-present	Member, Scientific Advisory Board, A Foundation Building Strength, Research and Development Committee, Palo Alto, California.
2014- present	Expert Reviewer, Canadian Foundation for Innovation, Toronto, Ontario, Canada.
2014-present	Board of Directors, Sheppard Pratt Lieber Research Institute, Towson, Maryland.
2016-present	Chief Medical Officer, Lieber Institute for Brain Development, Baltimore, Maryland.
2017-present	Conference Chair-elect, Winter Conference on Brain Research.

AWARDS AND HONORS:

- 1974
Valedictorian
Magruder Senior High School
Rockville, Maryland
- 1974-1978
Dean's List
University of Pennsylvania
Philadelphia, Pennsylvania
- 1976-1984
University Scholar
School of Medicine and Graduate Group in Anatomy
University of Pennsylvania
- 1977
Phi Beta Kappa
University of Pennsylvania
- 1978
B.A. Summa cum Laude
University of Pennsylvania
- 1978
Grass Foundation Research Award
Graduate Group in Anatomy
University of Pennsylvania
- 1979-1984
Predoctoral Fellow
Medical Scientist Training Program
School of Medicine and Graduate Group in Anatomy
University of Pennsylvania
- 1983
Roy G. Williams Award for Excellence in Research
School of Medicine and Graduate Group in Anatomy
University of Pennsylvania
- 1984
Outstanding Clinician-Researcher in Senior Class
School of Medicine and Graduate Group in Anatomy
University of Pennsylvania
- 1999
National Institutes of Health Director's Award
National Institutes of Health
Bethesda, Maryland
- 2008
Awarded membership in the American College of
Neuropsychopharmacology
- 2010
Guest Lecturer, Cold Spring Harbor Laboratory
Banbury Seminars, Workshop on Schizophrenia and
Related Disorders, June 9 – June 15, 2010
"Postmortem Gene Expression in Neurodevelopment"
- 2015
Appointed as a Fellow in the American College of
Neuropsychopharmacology

PROFESSIONAL ASSOCIATIONS:

Society for Neuroscience
American Medical Association
American Academy of Neurology
District of Columbia Medical Society
Society of Biological Psychiatry
American College of Neuropsychopharmacology

RESEARCH FUNDING:

1989-1991	National Alliance for Research on Schizophrenia and Depression Young Investigator Award
1989-1991	Tourette Syndrome Association Independent Research Grant
1996-present	Research funding through the Intramural Research Program of the National Institute of Mental Health

SELECTED INVITATIONAL LECTURES:

February 11, 2013	Symposium: "The Complexity of Genetic Risk for Schizophrenia", Department of Psychiatry, School of Medicine, University of Bari, Bari, Italy
March 18, 2013	Invitational Lecture: "GABA Signaling Abnormalities in Schizophrenia", Departments of Psychiatry, Genetics, and Neuroscience, Oxford University School of Medicine, Oxford, England, United Kingdom
April 24, 2013	Symposium: "Next-Generation Sequencing Approaches to Schizophrenia and its Neurodevelopmental Origins", 14 th International Congress on Schizophrenia Research, Orlando, Florida.
April 25, 2013	Symposium: "BrainCloud: an Integrative Approach to Genomic Brain Research", 14 th International Congress on Schizophrenia Research, Orlando, Florida.
May 25, 2013	Plenary Speaker, "GABA Signaling Abnormalities, Allelic Variation, Neurodevelopment, and Schizophrenia", 5 th Macedonian Psychiatric Congress and International Meeting, Orhid, Macedonia.
April 19, 2014	Keynote Speaker, "Postmortem Human Brains Dedicated to Neuropsychiatric Disease Research", International Workshop on Human Brain Banking in

China, Changsha, China.

- April 25, 2014 Keynote Speaker, "Postmortem Human Brain Studies in Major Mental Illnesses", International Workshop on Human Brain Banking in China, Satellite Symposium, Beijing, China.
- April 30, 2014 Keynote Speaker, "Post-mortem Human Brain Studies in Developmental Neuropsychiatric Disorders", 1st Lieber Institute-Peking University Joint Translational Neuroscience Institute Meeting, Beijing, China.
- May 16, 2014 Keynote Speaker, "Post-mortem Human Brains and Neuropsychiatric Disease: Acquisition, Characterization, and Uses of Post-mortem Tissues", Multi-ITN IN-SENS, Deciphering Inter- and Intracellular Signaling in Schizophrenia, Dusseldorf, Germany.
- October 10, 2014 Guest Speaker, "GABA Signaling Abnormalities and Schizophrenia: Neurodevelopment and Genetic Risk", Netherlands Brain Bank, Netherlands Institute for Neuroscience, Amsterdam, Netherlands.
- October 15, 2014 Symposium Speaker, "Genetic Risk, Neurodevelopment, and the Molecular Pathology of Schizophrenia", World Congress of Psychiatric Genetics, Copenhagen, Denmark.
- November 13, 2014 Grand Rounds, "GABA Signaling Abnormalities and Schizophrenia: Postmortem Human Brain Studies", Department of Pharmacy Practice, University of Illinois-Chicago, Chicago, Illinois.
- November 20, 2014 Grand Rounds, "Lieber Institute for Brain Development: Genetics and Molecular Pathology of Complex Developmental Brain Disorders", Department of Neurosurgery, Johns Hopkins School of Medicine, Baltimore, Maryland.
- March 11, 2015 Keynote Speaker and Symposium Discussant, "Boosting Brain Innovation: A New Path Forward: Lieber Institute for Brain Development". BrainTech 2015, Tel Aviv, Israel.
- November 12, 2015 Keynote Speaker, "Building a Better Human Brain Tissue Repository", Seoul National University Hospital Commemorative Symposium, Seoul, Korea.

ADDITIONAL ACTIVITIES:

- 1990-1993 Volunteer, Whitman-Walker Clinic, AIDS Testing Section

1992-present	Member, Program Committee, Winter Conference on Brain Research
1992-1995	Chairman, Radiation Drug Research Committee, Neuroscience Research Center, National Institute of Mental Health
1993-1994	Member, Montgomery County, Maryland AIDS Task Force
1993-1995	Member, Program Committee, Annual Meeting of the American Academy of Neurology
1993-1994, 1998-2000	Member, Program Committee, Annual Meeting of the Society of Biological Psychiatry
1995-1997	Member, Board, Epilepsy Foundation for the National Capitol Area
1998-present	Member, Advisory Board to Board of Directors, Greater Washington Chapter, Tourette Syndrome Association

1999-2002	Member, Board of Directors, Winter Conference on Brain Research
2000-2013	Member, Editorial Advisory Board, Journal of Chemical Neuroanatomy
2004-present	Member, Editorial Advisory Board, Current Psychiatry Reviews
2006-present	Member, Scientific Advisory Council, American Foundation for Suicide Prevention
2007-present	Member, Editorial Advisory Board, The Open Psychiatry Journal
2013-2015	Member, State of Maryland Life Sciences Advisory Board
2016	External Reviewer, MRC Centre for Neurodevelopmental Disorders, London, England, United Kingdom.

PUBLICATIONS:

ORIGINAL RESEARCH PUBLICATIONS:

1. Hyde, T.M. and R.R. Miselis. Effects of area postrema/caudal medial nucleus of the solitary tract lesions on food intake and body weight. American Journal of Physiology. 244: 577-587, 1983.
2. Hyde, T.M. and R.R. Miselis. Effects of area postrema/caudal medial nucleus of the solitary tract lesions on water and sodium balance. American Journal of Physiology. 246: 173-182, 1984.
3. Miselis, R.R., T.M. Hyde, and R.E. Shapiro. The area postrema and adjacent solitary nucleus in water and energy balance. Federation Proceedings. 43: 2969-2971, 1984.
4. Hyde, T.M., M. Gibbs, and S.J. Peroutka. Distribution of muscarinic cholinergic receptors in the dorsal vagal complex and other selected nuclei in the human medulla. Brain Research. 447: 287-292, 1988.
5. Hyde, T.M. and S.J. Peroutka. Distribution of cholecystokinin receptors in the dorsal vagal complex and other selected nuclei in the human medulla. Brain Research. 495: 198-202, 1989.
6. Hyde, T.M., J.R. Hotson, and J.E. Kleinman. Differential diagnosis of choreiform tardive dyskinesia. Journal of Neuropsychiatry and Clinical Neurosciences. 3: 255-268, 1991.
7. Hyde, T.M., B.A. Aaronson, C. Randolph, K.C. Rickler, and D.R. Weinberger. The relationship of birthweight to the phenotypic expression of Tourette's Syndrome in monozygotic twins. Neurology. 42: 652-657, 1992.
8. Hyde, T.M., J.C. Ziegler, and D.R. Weinberger. Psychiatric disturbances in metachromatic leukodystrophy: insights into the neurobiology of psychosis. Archives of Neurology. 49: 401-406, 1992.
9. Egan, M.F., T.M. Hyde, G.W. Albers, A. Elkashef, R. Alexander, A. Reeves, A.O. Blume, and R.J. Wyatt. Treatment of tardive dyskinesia with vitamin E. American Journal of Psychiatry. 149: 773-777, 1992.
10. Hyde, T.M. and R.R. Miselis. The subnuclear organization of the human caudal nucleus of the solitary tract. Brain Research Bulletin, 29: 95-109, 1992.
11. Egan, M.F., T.M. Hyde, D.L. Tirschwell, J.E. Kleinman, and D.R. Weinberger. Laterality of appendicular tardive dyskinesia in chronic schizophrenia. Biological Psychiatry. 31: 1098-1109, 1992.
12. Hyde, T.M., L.-C. Wu, I.B. Krasnov, S.K. Sigworth, N.G. Daunton, and F. D'Amelio. Quantitative autoradiographic analysis of muscarinic cholinergic and GABA_A (benzodiazepine) receptors in the forebrain of rats flown on COSMOS 2044. Brain Research. 593: 291-294, 1992.
13. Hyde, T.M., E.K. Fitzcharles, and D.R. Weinberger. Age-related prognostic factors in the severity of illness of Tourette's Syndrome in monozygotic twins. Journal of Neuropsychiatry and Clinical Neurosciences. 5: 178-182, 1993.

14. Randolph, C., T.M. Hyde, J.M. Gold, T.E. Goldberg, and D.R. Weinberger. Tourette's Syndrome in monozygotic twins: relationship of tic severity to neuropsychological function. Archives of Neurology. 50: 725-728, 1993.
15. Goldberg, T.E., T.M. Hyde, J.E. Kleinman, and D.R. Weinberger. The course of schizophrenia: neuropsychological evidence for a static encephalopathy. Schizophrenia Bulletin. 19: 797-804, 1993.
16. Gupta S., M.F. Egan, and T. M. Hyde. An unusual presentation of tardive dyskinesia with prominent involvement of the pectoral musculature. Biological Psychiatry. 33: 291-292, 1993.
17. Elkashef, A.M., M.F. Egan, J.A. Frank, T.M. Hyde, B.K. Lewis, and R.J. Wyatt. Basal ganglia iron content in tardive dyskinesia: an MRI study. Biological Psychiatry. 35: 16-21, 1994.
18. Abi-Dargham, A., M. Laruelle, J. Seibyl, Z. Rattner, R.M. Baldwin, S.S. Zoghbi, Y. Zea-Ponce, J.D. Bremner, T.M. Hyde, D.S. Charney, P.B. Hoffer, and R.B. Innis. SPECT measurement of benzodiazepine receptors in human brain with [¹²³I]lomazenil: kinetic and equilibrium paradigms. Journal of Neurochemistry. 35: 228-238, 1994.
19. Ohuoha, D.C., M.B. Knable, S.S. Wolf, J.E. Kleinman, and T.M. Hyde. 5-HT₃ receptor distribution in the human nucleus of the solitary tract and other structures of the caudal medulla: a quantitative autoradiographic study. Brain Research. 637: 222-226, 1994.
20. Sambunaris, A. and T.M. Hyde. Stroke-related aphasia mistaken for psychotic speech: two case reports. Journal of Geriatric Psychiatry and Neurology. 7: 144-147, 1994.
21. Hyde, T.M., S. Nawroz, T.E. Goldberg, D. Strong, J.L. Ostrem, D.R. Weinberger, and J.E. Kleinman. Is there cognitive decline in schizophrenia? A cross-sectional study. British Journal of Psychiatry. 164: 494-500, 1994.
22. Wolf, S.S., T.M. Hyde, and D.R. Weinberger. Malformations of the septum pellucidum: two distinctive cases in association with schizophrenia. Journal of Psychiatry and Neuroscience. 19: 140-144, 1994.
23. Hyde, T.M., H.A. Emsellem, C. Randolph, K.C. Rickler, and D.R. Weinberger. EEG abnormalities in monozygotic twins with Tourette's Syndrome. British Journal of Psychiatry. 164: 811-817, 1994.
24. Cantor-Graae, E., T.F. McNeil, K.C. Rickler, K. Sjöström, R. Rawlings, E.S. Higgins, and T.M. Hyde. Are neurological abnormalities in well discordant monozygotic co-twins of schizophrenic subjects the result of perinatal trauma? American Journal of Psychiatry. 151: 1194-1199, 1994.
25. Wolf, S.S., T.M. Hyde, T.W. Moody, R.C. Saunders, D.R. Weinberger, and J.E. Kleinman. The autoradiographic characterization of ¹²⁵I-neurotensin binding in human entorhinal cortex. Brain Research Bulletin. 35: 353-358, 1994.

26. Egan, M.F., Y. Hurd, T.M. Hyde, D.R. Weinberger, J.E. Kleinman, and R.J. Wyatt. Alterations in mRNA levels of D2 receptors and neuropeptides in striatonigral and striatopallidal neurons of rats with neuroleptic-induced dyskinesias. Synapse. 18: 178-189, 1994.
27. Knable, M.B., T.M. Hyde, M. Tosayali, R.J. Wyatt, J.E. Kleinman, D.R. Weinberger, and M.F. Egan. Quantitative autoradiography of striatal dopamine D1, D2, and reuptake sites in rats with vacuous chewing movements. Brain Research. 646: 217-222, 1994.
28. Knable, M.B., T.M. Hyde, M.M. Herman, J.M. Carter, L.B. Bigelow, and J.E. Kleinman. Quantitative autoradiography of dopamine-D1 receptors, D2 receptors and dopamine uptake sites in post-mortem striatal specimens from schizophrenic patients. Biological Psychiatry. 36: 827-835, 1994.
29. Hyde, T.M., M.F. Egan, R.J. Brown, D.R. Weinberger, and J.E. Kleinman. Diurnal variation in tardive dyskinesia. Psychiatry Research. 56: 53-57, 1995.
30. Hyde, T.M. and D.R. Weinberger. Tourette's Syndrome: a model neuropsychiatric disorder. Journal of the American Medical Association. 273: 498-501, 1995.
31. Egan, M.F., T.M. Hyde, J.E. Kleinman, and R.J. Wyatt. Neuroleptic-induced vacuous chewing movements in rodents: incidence and effects of long-term increases in haloperidol dose. Psychopharmacology. 117: 74-81, 1995.
32. Hyde, T.M., M.F. Egan, L.L. Wing, R.J. Wyatt, D.R. Weinberger, and J.E. Kleinman. Persistent catalepsy associated with severe dyskinesias in rats treated with chronic injections of haloperidol decanoate. Psychopharmacology. 118: 142-149, 1995.
33. Hyde, T.M., M.E. Stacey, R. Coppola, S.F. Handel, K.C. Rickler, and D.R. Weinberger. Structural abnormalities in Tourette's Syndrome: a quantitative MRI study in monozygotic twins. Neurology. 45: 1176-1182, 1995.
34. Knable, M.B., D.W. Jones, R. Coppola, T.M. Hyde, K.S. Lee, J. Gorey, and D.R. Weinberger. Lateralized differences in Iodine-123-IBZM uptake in the basal ganglia activity in asymmetric Parkinson's disease. J. Nuclear Medicine. 36: 1216-1225, 1995.
35. Egan, M.F., J.N. Ferguson, and T.M. Hyde. Effects of chronic naloxone administration on vacuous chewing movements and catalepsy in rats treated with long-term haloperidol decanoate. Brain Research Bulletin 38: 355-363, 1995.
36. Wolf, S.S., T.M. Hyde, R.C. Saunders, M.M. Herman, D.R. Weinberger, and J.E. Kleinman. Autoradiographic characterization of neurotensin receptors in the entorhinal cortex of schizophrenic patients and control subjects. J. Neural Transmission, 102: 55-65, 1995.
37. Murray, A.M., T.M. Hyde, M.B. Knable, M.M. Herman, L.B. Bigelow, J.M. Carter, D.R. Weinberger, and J.E. Kleinman. The distribution of putative D4 dopamine receptors in post-mortem striatum from patients with schizophrenia. J. Neuroscience. 15: 2186-2191, 1995.

38. Lynn, R.B., G.-Y. Cao, R.V. Considine, T.M. Hyde, and J.F. Caro. Autoradiographic localization of leptin binding in the choroid plexus of *ob/ob* and *db/db* mice. Biochemical and Biophysical Research Communications. 219: 884-889, 1996.
39. Lynn, R.B., T.M. Hyde, R.B. Cooperman, and R.R. Miselis. Distribution of bombesin-like immunoreactivity in the nucleus of the solitary tract and dorsal motor nucleus of the rat and human: colocalization with tyrosine hydroxylase. J. Comparative Neurology. 369: 552-570, 1996.
40. Considine, R.V., E.L. Considine, C.J. Williams, T.M. Hyde, and J.F. Caro. The hypothalamic leptin receptor in humans: identification of incidental sequence polymorphisms and absence of the *db/db* mouse and *fa/fa* rat mutations. Diabetes. 45:992-994, 1996.
41. Hyde, T.M., M.B. Knable, and A. M. Murray. The distribution of dopamine D1- D4 receptor subtypes in human dorsal vagal complex. Synapse. 24: 224-232, 1996.
42. Wolf, S.S., D.W. Jones, M.B. Knable, J. Gorey, K.S. Lee, T.M. Hyde, R. Coppola, and D.R. Weinberger. Phenotypic variation in Tourette Syndrome twins correlates with dopamine receptor imaging in caudate. Science. 273: 1225-1227, 1996.
43. Knable, M.B., T.M. Hyde, A.M. Murray, M.M. Herman, and J.E. Kleinman. A postmortem study of frontal cortical dopamine D1 receptors in schizophrenics, psychiatric controls, and normal controls. Biological Psychiatry. 40: 1191-1199, 1996.
44. Egan, M.F., J.N. Ferguson, and T.M. Hyde. Effects of rating parameters on assessment of neuroleptic-induced vacuous chewing movements. Pharmacology, Biochemistry, and Behavior. 53: 401-410, 1996.
45. Egan, M.F., Y. Hurd, J.N. Ferguson, S.E. Bachus, E.H. Hamid, and T.M. Hyde. Pharmacological and neurochemical differences between acute and tardive vacuous chewing movements induced by haloperidol. Psychopharmacology. 127: 337-345, 1996.
46. Bachus, S.E., T.M. Hyde, M.M. Herman, M.F. Egan, and J.E. Kleinman. Abnormal cholecystinin mRNA levels in entorhinal cortex of schizophrenics. J. Psychiatric Research. 31: 233-256, 1997.
47. Hyde, T.M. and D.R. Weinberger. Seizures and schizophrenia. Schizophrenia Bulletin. 23: 611-622, 1997.
48. Hurd, Y.L., M.M. Herman, T.M. Hyde, L.B. Bigelow, D.R. Weinberger, and J.E. Kleinman. Prodynorphin mRNA expression is increased in the patch versus matrix compartment of the caudate nucleus in suicide subjects. Molecular Psychiatry. 2: 495-500, 1997.
49. Shimon, H., G. Agam, R.H. Belmaker, T.M. Hyde, and J.E. Kleinman. Reduced frontal cortex inositol levels in postmortem brain of suicide victims and patients with bipolar disorder. American J. Psychiatry. 154: 1148-1150, 1997.
50. Krimer, L.S., T.M. Hyde, M.M. Herman, and R.C. Saunders. The entorhinal cortex: an examination of cyto- and myelo-architectonic organization in humans. Cerebral Cortex. 7: 722-731, 1997.

51. Krimer, L.S., M.M. Herman, R.C. Saunders, J.C. Boyd, T.M. Hyde, J.M. Carter, J.E. Kleinman, and D.R. Weinberger. A qualitative and quantitative analysis of the entorhinal cortex in schizophrenia. Cerebral Cortex. 7: 732-739, 1997.
52. Noga, J.T., T.M. Hyde, M.M. Herman, C.F. Spurney, L.B. Bigelow, D.R. Weinberger, and J.E. Kleinman. Glutamate receptors in the post-mortem striatum of schizophrenia, suicide, and control brains. Synapse. 27: 168-176, 1997.
53. Moore, K.A., G.W. Kunsman, B.S. Levine, M.M. Herman, J. Cervenak, and T.M. Hyde. A comparison of ethanol concentrations in the occipital lobe and cerebellum. Forensic Science International. 86: 127-134, 1997.
54. Vawter, M.P., H.E. Cannon-Spoor, J.J. Hemperly, T.M. Hyde, D.M. VanderPutten, J.E. Kleinman, and W.J. Freed. Abnormal expression of cell recognition molecules in schizophrenia. Experimental Neurology. 149: 424-432, 1998.
55. Baca, S.M., B.K. Lipska, M.F. Egan, S.E. Bachus, J.N. Ferguson, and T.M. Hyde. Effects of prefrontal cortical lesions on neuropeptide and dopamine receptor gene expression in the striatum-accumbens complex. Brain Research. 797: 55-64, 1998.
56. Mulberg, A.E., R.T. Weyler, S.M. Altschuler, and T.M. Hyde. Cystic fibrosis transmembrane conductance regulator expression in human hypothalamus. NeuroReport. 9: 141-144, 1998.
57. Heinz, A., M.B. Knable, S.S. Wolf, D.W. Jones, J.G. Gorey, T.M. Hyde, and D.R. Weinberger. Tourette's Syndrome: [I-123]beta-CIT SPECT correlates of vocal tic severity. Neurology. 51: 1069-1074, 1998.
58. Hamid, E.H., T.M. Hyde, S.M. Baca, and M.F. Egan. Failure to down regulate NMDA receptors in the striatum and nucleus accumbens associated with neuroleptic-induced dyskinesia. Brain Research. 796: 291-295, 1998.
59. Vawter, M.P., J.J. Hemperly, T.M. Hyde, S.E. Bachus, D.M. VanderPutten, A.L. Howard, H.E. Cannon-Spoor, M.T. McCoy, M.J. Webster, J.E. Kleinman, and W.J. Freed. VASE-containing N-CAM isoforms are increased in the hippocampus in bipolar disorder but not schizophrenia. Experimental Neurology. 154: 1-11, 1998.
60. McNamara, R.K., T.M. Hyde, J.E. Kleinman, and R.H. Lenox. Expression of myristoylated alanine-rich C kinase substrate (MARCKS) and MARCKS-related protein (MRP) in the prefrontal cortex and hippocampus of suicide victims. J. Clinical Psychiatry. Supplement 2: 21-6, 1999.
61. Vawter, M.P., A.L. Howard, T.M. Hyde, J.E. Kleinman, and W.J. Freed. Alterations of hippocampal secreted N-CAM in bipolar disorder and synaptophysin in schizophrenia. Molecular Psychiatry. 4: 467-475, 1999.
62. Spurney, C.F., S.M. Baca, A.M. Murray, G.E. Jaskiw, J.E. Kleinman, and T.M. Hyde. Differential effects of haloperidol and clozapine on ionotropic glutamate receptors in rats. Synapse. 34: 266-276, 1999.
63. Holt, D.J., M.M. Herman, T.M. Hyde, J.E. Kleinman, C.M. Sinton, D.C. German, L.B. Hersh, A.M. Graybiel, and C.B. Saper. Evidence for a deficit in cholinergic interneurons in the striatum in schizophrenia. Neuroscience. 94: 21-31, 1999.

64. Shannon Weickert, C., M.J. Webster, S.M. Colvin, M.M. Herman, T.M. Hyde, D.R. Weinberger, and J.E. Kleinman. Localization of epidermal growth factor receptors and putative neuroblasts in human subependymal zone. Journal of Comparative Neurology. 423: 359-372, 2000.
65. Bower, C.M., T.M. Hyde, M. Zaka, E.H. Hamid, S.M. Baca, and M.F. Egan. Decreased mu-opioid receptor binding in the globus pallidus of rats treated with chronic haloperidol. Psychopharmacology. 150: 260-263, 2000.
66. Meredith, G.E., I.E. De Souza, T.M. Hyde, G. Tipper, M.L. Wong, and M.F. Egan. Persistent alterations in dendrites, spines, and dynorphinergic synapses in the nucleus accumbens shell of rats with neuroleptic-induced dyskinesias. Journal of Neuroscience. 20: 7798-7806, 2000.
67. Weickert, C.S., M.J. Webster, T.M. Hyde, M.M. Herman, S.E. Bachus, G. Bali, D.R. Weinberger, and J.E. Kleinman. Reduced expression of GAP-43 mRNA in dorsolateral prefrontal cortex of schizophrenics. Cerebral Cortex. 11: 136-147, 2001.
68. Webster, M.J., C.S. Weickert, M.M. Herman, T.M. Hyde, and J.E. Kleinman. Synaptophysin and GAP-43 mRNA levels in the hippocampus of subjects with schizophrenia. Schizophrenia Research. 49: 89-98, 2001.
69. Winterer, G., M.F. Egan, T. Radler, T. Hyde, R. Coppola, and D.R. Weinberger. An association between reduced interhemispheric EEG coherence in the temporal lobe and genetic risk for schizophrenia. Schizophrenia Research. 49: 129-143, 2001.
70. Egan, M.F., T.E. Goldberg, T. Gscheidle, M. Weirich, R. Rawlings, T.M. Hyde, L.B. Bigelow, and D.R. Weinberger. Relative risk for cognitive impairments in siblings of patients with schizophrenia. Biological Psychiatry. 50: 98-107, 2001.
71. Noga, J.T., T.M. Hyde, S.E. Bachus, M.M. Herman, and J.E. Kleinman. AMPA receptor binding in the dorsolateral prefrontal cortex of schizophrenics and controls. Schizophrenia Research. 48: 361-363, 2001.
72. Crook, J.M., M. Akil, B.C.W. Law, T.M. Hyde, and J.E. Kleinman. Comparative analysis of group II metabotropic glutamate receptor immunoreactivity in the dorsolateral prefrontal cortex of patients with schizophrenia and normal subjects. Molecular Psychiatry. 7: 157-164, 2002.
73. Egan, M.F., T.M. Hyde, J.B. Bonomo, V.S. Mattay, L.B. Bigelow, T.E. Goldberg, and D.R. Weinberger. Relative risk of neurological signs in siblings of patients with schizophrenia. American Journal of Psychiatry. 158: 1827-1834, 2002.
74. Vawter, M.P., L. Thatcher, N. Usen, T.M. Hyde, J.E. Kleinman, and W.J. Freed. Reduction of synapsin in the hippocampus of patients with bipolar disorder and schizophrenia. Molecular Psychiatry. 7: 571-578, 2002.
75. Mattay, V.A., A. Tessitore, J.H. Callicott, A. Bertolino, T.E. Goldberg, T.N. Chase, T.M. Hyde, and D.R. Weinberger. Dopaminergic modulation of cortical function in patients with Parkinson's disease. Annals of Neurology 51: 156-164, 2002.
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INVITED CHAPTERS, LETTERS, EDITORIALS, AND REVIEWS:

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