

Curriculum Vitae

Naama Barnea-Goraly, M.D.

Instructor

**Center for Interdisciplinary Brain Sciences Research
Stanford University School of Medicine**

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Education:

The Hebrew University and Hadassah Medical School
Jerusalem, Israel: M.D., 1999.

The Hebrew University and Hadassah Medical School in Jerusalem, Israel: Bachelor,
Medical Science, 1993.

Scholarships, academic honors, and awards:

Child Health Research Program (CHRP), Stanford University School of Medicine,
Pilot, Early Career Award:

“Investigation of brain white-matter pathways in sibling-pair offspring of parents with
bipolar disorder, who are discordant for symptoms of bipolar disorder”

Role – PI, 12 calendar months 2008-2009 35,000\$

Autism Speaks – Physician/Investigator Beginning Autism Research Award

"Investigation of cortical folding complexity in children with autism, their autism-
discordant siblings, and controls" 2008-2010.

Role – PI , 24 calendar months, 200,000\$

National Alliance for Research of Schizophrenia and Affective Disorders (NARSAD)
– Young Investigator Award

“Investigation of White matter Structure in Children and Adolescents with Autism,
their Autism Discordant Siblings, and Controls: A Diffusion Tensor Imaging Study”
2005-2007

Role – PI, 24 calendar months, 60,000\$

American Foundation for Suicide Prevention (AFSP) – Young Investigator Award

"Neural correlates of major depression with suicidal ideation in female adolescents"
2005-2007

Role-PI, 24 calendar months, 70,000\$

The Society of Biological Psychiatry and Eli Lilly Travel Fellowship Award - 2004

Rosen Research Fund and the NFXF Special Funds fellowship – summer 2001

Stanford Medical School Dean's fellowship – 2000-2001.

Bachelor of Medical science with honors, The Hebrew University and Hadassah Medical School, 1993. **Peer-reviewed publications:**

Haas Brian, Barnea-Goraly Naama, Lightbody Amy, Patnaik Sweta, Hoeft Fumiko, Cody, Heather, Piven Joe, Reiss Allan. Increased Fiber Density within the Ventral Frontostriatal Pathway in Young Male Children with FMR1 Gene Mutation: A Diffusion Tensor Imaging Tractography Study. *Brain (submitted)*

Fumiko Hoeft, Barnea-Goraly, Naama., Brian Haas, Golijeh Golarai, Derek Ng, Debra Mills, Julie Korenberg, Ursula Bellugi, Albert Galaburda, Allan L. Reiss More is Not Always Better: Increased Fractional Anisotropy of Superior Longitudinal Fasciculus Associated with Poor Visuospatial Abilities in Williams syndrome *J Neurosci.* 2007 Oct 31;27(44):11960-5.

Chang, K., Adleman N., Wagner C., Barnea-Goraly N., Garrett A., Will Neuroimaging Ever Be Used to Diagnose Pediatric Bipolar Disorder? *Development and Psychopathology* 2006 Fall;18(4):1133-46.

Holzapfel, M., Barnea-Goraly, N., Eckert, M., Kesler, S.R., and Reiss, A.L. Selective Alterations of White Matter Contribute to Visuospatial and Sensory-Motor Dysfunction in Turner Syndrome. *J Neurosci.* 2006 Jun 28;26(26):7007-13.

Barnea-Goraly, N., Eliez, S., Menon, V., Bammer, R., Reiss, A.L. Arithmetic ability and parietal alterations: a DTI study in velocardiofacial syndrome. *Brain Res Cogn Brain Res.* 2005 Dec;25(3):735-40

Chang, K, Barnea-Goraly, N., Karchemskiy, A., Simeonova, D.I., Barnes, P., Ketter, T., Reiss, A.L. Cortical MRI Findings in Familial Pediatric Bipolar Disorder. *Biological Psychiatry.* 2005 August 1;58(3):197-203.

Chang K, Karchemskiy A, Barnea-Goraly N, Garrett A, Simeonova DI, Reiss A.L. Reduced amygdalar gray matter volume in familial pediatric bipolar disorder. *J Am Acad Child Adolesc Psychiatry.* 2005 Jun;44(6):565-73.

Barnea-Goraly, N., Menon, V., Eckert, M., Tamm, L., Bammer, R., Karmeskiy, A., Dant, C. and Reiss, A.L. White Matter Development During Childhood and Adolescence: A Cross-Sectional Diffusion Tensor MR Imaging Study. *Cereb Cortex.* 2005 Dec;15(12):1848-54

Barnea-Goraly, N., Kwon, H., Menon, V., Eliez, S., Linda Lotspeich, and Reiss, A.L. White matter disruption in autism: preliminary evidence from diffusion tensor imaging *Biological Psychiatry.* 2004 Feb. 1;55(3):323-6

Barnea-Goraly, N., Menon, V., Krasnow, B., Ko, A., Reiss, A.L., and Eliez, S. Investigation of white matter structure and integrity in Velo-cardio-facial syndrome: A diffusion tensor imaging study. *American Journal of Psychiatry.* 2003 Oct;160(10):1863-9

Barnea-Goraly, N., Eliez, S., Hedeus, M., Menon, V., White, CD., Moseley, M., and Reiss, A.L. White matter tract alterations in fragile X: Preliminary evidence from diffusion tensor imaging. *American Journal of Medical Genetics*. 2003 Apr 1;118B(1):81-8.

Chang, K.D., Adleman, N., Dienes, K., Barnea-Goraly, N., Reiss, A.L., and Ketter, T.A. Decreased N-Acetylaspartate Levels in Pediatric Bipolar Disorder. *Biological Psychiatry*. 2003 Jun 1;53(11):1059-65.

Eliez, S., Barnea-Goraly, N., Schmitt, E.J., Liu, Y., Reiss, A.L. Increased basal ganglia volumes in Velo-cardio-facial syndrome (deletion 22q11.2). *Biological Psychiatry*, 2001 July 1;52(1), 68-70.

Review papers:

Chang, K.D., Barnea-Goraly, N., Adelman, N., Ketter, T.A. Brain Imaging in Bipolar Disorder. 2002 *Contemporary Psychiatry*, (1), 1-10.

Adleman, N.E., Barnea-Goraly, N., Chang K.D., A Review of Magnetic Resonance Imaging and Spectroscopy Studies in Children and Adolescents with Bipolar Disorder. 2003 *Expert Review of Neurotherapeutics* 4 (1):69-77.

Papers under review or in preparation:

Barnea-Goraly, N., Chang, K., Karmeskiy, A., Reiss, A.L. White Matter Structure in Adolescents with Bipolar Disorder (*In preparation*)

Tamm, L., Barnea-Goraly, N., Reiss, AL. Fronto-striatal White Matter alterations in Children with Attention Deficit Hyperactivity Disorder (*In preparation*)

Barnea-Goraly, N. Garrett Amy, Adleman Nancy, Beigel Gina, Watson Christa, Reiss Allan. Prefrontal white matter alterations in adolescent depression, a Tract-based Spatial Statistics analysis (*In preparation*)

Barnea-Goraly N., Lotspeich Linda, Reiss Allan, White matter alterations in children with autism and their unaffected siblings a TBSS study (*In preparation*)

Conference Presentations:

White Matter Tract Alterations in Fragile X Syndrome: Preliminary Evidence from Diffusion Tensor Imaging. Diffusion Tensor Imaging conference, Tel-Aviv, Israel August 2001. Symposium.

Barnea-Goraly, N., Menon, V., Krasnow, B., Ko, A., Reiss, A.L., and Eliez, S. Investigation of white matter structure and integrity in Velo-cardio-facial syndrome: A diffusion tensor imaging study. 58th Annual Meeting of the Society of Biological Psychiatry. San Francisco, May 15-17, 2003. Abstract 215. Biological Psychiatry

2003;53(8S):195S. Poster.

Karchemskiy, A, Chang, K, Barnea-Goraly, N, Simeonova, D, Adleman, N, Dienes, K, Reiss, A. Structural MRI Reveals Subcortical Abnormalities in Adolescent Bipolar Disorder. 50th Annual Meeting of the American Academy of Child and Adolescent Psychiatry, Miami, FL, October 14-19, 2003. Poster.

Barnea-Goraly, N., Kwon, H., Menon, V., Eliez, S., Linda Lotspeich, and Reiss, A.L. White matter disruption in autism: preliminary evidence from diffusion tensor imaging. 59th Annual Meeting of the Society of Biological Psychiatry. New-York, May , 2004. Abstract 187. Biological Psychiatry 2004;55(8S):117S. Paper session.

Barnea-Goraly N., Menon, V., Eckert, M., Tamm, L., Bammer, B., Karmeskiy, A., Dant, C., and Reiss, A.L. White Matter Development During Childhood and Adolescence: A Cross-Sectional Diffusion Tensor MR Imaging Study. 59th Annual Meeting of the Society of Biological Psychiatry. New-York, May , 2004. Abstract 421. Biological Psychiatry 2004;55(8S):54S. Poster.

Abstracts –

Eliez S., Antonarakis, S.E., Schmitt, E.J., Blasey, C., Barnea-Goraly N., and Reiss A.L. Velo-cardio-facial syndrome (deletion 22q11.2): A developmental model for schizophrenia and genetic imprinting. *Abstract* International Society of Neuroimaging In Psychiatry 2001

Eliez, S., Antonarakis, E.S., Schmitt, E.J., Blasey, C., Barnea-Goraly, N., Reiss, A.L. Velo-cardio-facial syndrome (deletion 22q11.2): A Fascinating Developmental Model for Schizophrenia and Genetic. 56th Annual Meeting of the Society of Biological Psychiatry. *Abstract* Biological Psychiatry 2001

Chang, KD, Barnea-Goraly, N, Adleman, N, Dienes, K, Ketter, T, Reiss, AL. Volumetric MRI Analysis of Familial Pediatric Bipolar Disorder. 58th Annual Meeting of the Society of Biological Psychiatry. San Francisco, May , 2003. *Abstract* 550. Biological Psychiatry 2003;53(8S):195S.

Barnea-Goraly, N., Kwon, H., Menon, V., Eliez, S., Linda Lotspeich, and Reiss, A.L. White matter disruption in autism: preliminary evidence from diffusion tensor imaging. 59th Annual Meeting of the Society of Biological Psychiatry. New-York, May , 2004. *Abstract* 187. Biological Psychiatry 2004;55(8S):117S.

Barnea-Goraly N., Menon, V., Eckert, M., Tamm, L., Bammer, B., Karmeskiy, A., Dant, C., and Reiss, A.L. White Matter Development During Childhood and Adolescence: A Cross-Sectional Diffusion Tensor MR Imaging Study. 59th Annual Meeting of the Society of Biological Psychiatry. New-York, May , 2004. *Abstract* 421. Biological Psychiatry 2004;55(8S):54S.

Manuscript Reviewer:

Biological Psychiatry (2003-present)

Pediatrics (2006-present)

Schizophrenia Research (2006-present)

Journal of Neuroscience (2007-present)

Brain and Cognition (2007-present)

Human Brain Mapping (2007-present)

Journal of International Neuropsychological society (2008)

Psychiatry Research – Neuroimaging (2008)

NeuroImage (2008)

Brain (2008)

Brain Research (2008)

State Medical Licenses:

California, Full, Number: A101430

Israel, Full, Number 13065

Internship, Residency and Post-doctoral training:

Stanford School of Medicine, Department of child and adolescent Psychiatry: Child and Adolescent Psychiatry fellow 2003-2005.

Stanford School of Medicine, Department of Psychiatry: Post-doctoral research fellow, 2000- 2003.

Stanford Psychiatry Neuroimaging Laboratory (Dr. Allan Reiss)

Geha Mental Health Center, Petah Tikva, Israel: Resident in Child and Adolescent Psychiatry
1999-2000.

Carmel Hospital, Haifa, Israel. Internship 1998-1999.