Stanford

Tamar Green

Assistant Professor of Psychiatry and Behavioral Sciences (Interdisciplinary Brain Sciences) at the Stanford University Medical Center

Psychiatry and Behavioral Sciences - Center for Interdisciplinary Brain Sciences Research

CLINICAL OFFICES

- **Stanford Dept of Psychiatry and Behavioral Sciences**

  401 Quarry Rd

  MC 5718

  Stanford, CA 94305

  Tel (650) 723-5511 **Fax** (650) 724-7389

Bio

BIO

I am a child psychiatrist who works primarily with children with neurodevelopmental disorders such as ADHD and autism as well as with children with known genetic conditions ("neurogenetic syndromes" such as Noonan syndrome and other Rasopathies, Turner syndrome, 22q11.2 deletion syndrome). I gained my training as a child psychiatrist at Tel Aviv University in Israel. I have completed a postdoctoral research fellow in neuroscience at the Center for Interdisciplinary Brain Sciences Research at the Department of Psychiatry and Behavioral Sciences at Stanford University. Currently, I am an Assistant Professor at the department. My research focus is on human genetic models for neurodevelopmental disorders. One of my Lab's interests is the Rasopathies, a collection of syndromes associated with genetic mutations affecting the Ras/MAPK pathway. These studies are directed at uncovering neural correlates associated with deficits in attention, memory, and social skills in this syndrome. Results for this ongoing research also have the potential to yield valuable new insights into the role of the Ras/MAPK pathway in brain development in general, and attention, memory, and social skills.

CLINICAL FOCUS

- Child and Adolescent Psychiatry
- ADHD
- Neurogenetic syndromes

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Psychiatry and Behavioral Sciences - Center for Interdisciplinary Brain Sciences Research
- Member, Bio-X

HONORS AND AWARDS

- B.Med.Sc. Graduate, Magna Cum Laude, Medical School, Goldman Medical School, Ben-Gurion University (2000)
- Child Psychiatry Residency, Magna Cum Laude, Israel Psychiatric Association (2009)
- Travel Award., Society of Biological Psychiatry (2014)
- Travel Scholarship Award., Turner Resource Network Trainee (2014)

- Jr Investigator Poster Winner Award., RASopathies Symposium (2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Certificate of registration to practice medicine in the state, Medical Board of California, Medical Board of California, USA (2015 - present)
- Israeli board certified in Child and Adolescent Psychiatry, Ministry of Health, Israel (2010 - present)
- License to practice in medicine in Israel, Ministry of Health, Israel (2004 - present)

PROFESSIONAL EDUCATION

- Internship: Tel Aviv Sourasky Medical Center (2004) Israel
- Medical Education: Goldman Medical School (2005) Israel
- Board Certification: Child and Adolescent Psychiatry, Ministry of Health State of Israel (2010)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Green is a physician-scientist and a child psychiatrist who work primarily with children with neurodevelopmental disorders such as ADHD and autism as well as with children with known genetic conditions (“neurogenetic syndromes” such as Noonan syndrome and other Rasopathies, Turner syndrome, 22q11.2 deletion syndrome). She gained her training as a child psychiatrist at Tel Aviv University in Israel. She has completed a postdoctoral research fellow in neuroscience at the Center for Interdisciplinary Brain Sciences Research at the Department of Psychiatry and Behavioral Sciences at Stanford University and currently, she is an Assistant Professor at the department. Dr. Green's research focus is the Rasopathies, a collection of syndromes associated with genetic mutations affecting the Ras/MAPK pathway. Among the Rasopathies, she is specifically interested in Noonan syndrome. These studies are directed at uncovering neural correlates associated with deficits in attention, memory and social skills in this syndrome. Results for this ongoing research also have the potential to yield valuable new insights into the role of the Ras/MAPK pathway in brain development in general, and attention, memory, and social skills.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Monica Siqueiros Sanchez

Publications

PUBLICATIONS

- **PTPN11 Mutations in the Ras-MAPK Signaling Pathway Affect Human White Matter Microstructure.** *Cerebral cortex (New York, N.Y. : 1991)*
  Fattah, M., Raman, M. M., Reiss, A. L., Green, T.
  2020
- **X-chromosome insufficiency alters receptive fields across the human early visual cortex.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Green, T., Hosseini, H., Piccirilli, A., Ishak, A., Grill-Spector, K., Reiss, A. L.
  2019
- **PTPN11 Gain-of-Function Mutations Affect the Developing Human Brain, Memory, and Attention** *CEREBRAL CORTEX*
  Johnson, E. M., Ishak, A. D., Naylor, P. E., Stevenson, D. A., Reiss, A. L., Green, T.
  2019; 29 (7): 2915–23
- **Sex differences in psychiatric disorders: what we can learn from sex chromosome aneuploidies** *NEUROPSYCHOPHARMACOLOGY*
  Green, T., Flash, S., Reiss, A. L.
  2019; 44 (1): 9–21

- **PTPN11 Gain-of-Function Mutations Affect the Developing Human Brain, Memory, and Attention.** *Cerebral cortex (New York, N.Y. : 1991)*
  Johnson, E. M., Ishak, A. D., Naylor, P. E., Stevenson, D. A., Reiss, A. L., Green, T.
  2018

- **Sex differences in psychiatric disorders: what we can learn from sex chromosome aneuploidies.** *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*
  Green, T., Flash, S., Reiss, A. L.
  2018

- **PATHWAYS LEADING TO MENTAL HEALTH PHENOTYPES AND THEIR TREATMENTS: INSIGHTS FROM NEUROGENETIC SYNDROMES**
  Gothelf, D., Green, T., Reiss, A. L.
  ELSEVIER SCIENCE INC.2020: S266–S267

- **MULTIMODAL BRAIN IMAGING TO BETTER UNDERSTAND THE EFFECTS OF RAS-MITOGEN-ACTIVATED PROTEIN KINASE MUTATIONS ON BRAIN- AND ADHD-RELATED BEHAVIORS**
  Green, T.
  ELSEVIER SCIENCE INC.2020: S267

- **The sixth international RASopathies symposium: Precision medicine-From promise to practice.** *American journal of medical genetics. Part A*
  Gripp, K. W., Schill, L., Schoyer, L., Stronach, B., Bennett, A. M., Blaser, S., Brown, A., Burdine, R., Burkitt-Wright, E., Castel, P., Darilek, S., Dias, A., Dyer, et al
  2019

- **On the relationship between mathematics and visuospatial processing in Turner syndrome.** *Journal of psychiatric research*
  Baker, J. M., Klabunde, M., Jo, B., Green, T., Reiss, A. L.
  2019; 121: 135–42

- **Brain Development in School-Age and Adolescent Girls: Effects of Turner Syndrome, Estrogen Therapy, and Genomic Imprinting.** *Biological psychiatry*
  O'Donoghue, S., Green, T., Ross, J. L., Hallmayer, J., Lin, X., Jo, B., Huffman, L. C., Hong, D. S., Reiss, A. L.
  2019

- **The Effectiveness and Safety of Antipsychotic and Antidepressant Medications in Individuals with 22q11.2 Deletion Syndrome** *JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY*
  Dori, N., Green, T., Weizman, A., Gothelf, D.
  2017; 27 (1): 83-?

- **Multi-Table Differential Correlation Analysis of Neuroanatomical and Cognitive Interactions in Turner Syndrome.** *Neuroinformatics*
  Seiler, C., Green, T., Hong, D., Chromik, L., Huffman, L., Holmes, S., Reiss, A. L.
  2017

- **Attention deficit hyperactivity disorder (ADHD) in phenotypically similar neurogenetic conditions: Turner syndrome and the RASopathies.** *Journal of neurodevelopmental disorders*
  Green, T., Naylor, P. E., Davies, W.
  2017; 9: 25

- **X-Chromosome Effects on Attention Networks: Insights from Imaging Resting-State Networks in Turner Syndrome.** *Cerebral cortex (New York, N.Y. : 1991)*
  Green, T., Saggar, M., Ishak, A., Hong, D. S., Reiss, A. L.
  2017: 1–8

- **Cover Image, Volume 171B, Number 3, April 2016.** *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics*
  Green, T., Fierro, K. C., Raman, M. M., Saggar, M., Sheau, K. E., Reiss, A. L.
  2016; 171 (3): i-?

- **Surface-based morphometry reveals distinct cortical thickness and surface area profiles in Williams syndrome** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
  Green, T., Fierro, K. C., Raman, M. M., Saggar, M., Sheau, K. E., Reiss, A. L.
  2016; 171 (3): 402-413

- **Sex differences in amygdala shape: Insights from Turner syndrome.** *Human brain mapping*

Green, T., Fierro, K. C., Raman, M. M., Foland-Ross, L., Hong, D. S., Reiss, A. L.
2016; 37 (4): 1593-1601

- **Surface-based morphometry reveals distinct cortical thickness and surface area profiles in Williams syndrome.** *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics*
  Green, T., Fierro, K. C., Raman, M. M., Saggar, M., Sheau, K. E., Reiss, A. L.
  2016; 171B (3): 402-413

- **Elucidating X chromosome influences on Attention Deficit Hyperactivity Disorder and executive function.** *Journal of psychiatric research*
  Green, T., Bade Shrestha, S., Chromik, L. C., Rutledge, K., Pennington, B. F., Hong, D. S., Reiss, A. L.
  2015; 68: 217-225

- **Specific effect of the fragile-X mental retardation-1 gene (FMR1) on white matter microstructure** *BRITISH JOURNAL OF PSYCHIATRY*
  Green, T., Barnea-Goraly, N., Raman, M., Hall, S. S., Lightbody, A. A., Bruno, J. L., Quintin, E., Reiss, A. L.
  2015; 207 (2): 143-148

- **Hyperactive auditory processing in Williams syndrome: Evidence from auditory evoked potentials** *PSYCHOPHYSIOLOGY*
  Zarchi, O., Avni, C., Attias, J., Frisch, A., Carmel, M., Michaelovsky, E., Green, T., Weizman, A., Gothelf, D.
  2015; 52 (6): 782-789

- **The Outcome of Severe Internalizing and Disruptive Disorders from Preschool into Adolescence:A Follow-up Study.** *Israel journal of psychiatry and related sciences*
  Spitzer, S., Freudenstein, O., Peskin, M., Tyano, S., Shrira, A., Pearlson, T., Eilam, A., Zalsman, G., Green, T., Gothelf, D.
  2015; 52 (2): 100-105

- **Aberrant parietal cortex developmental trajectories in girls with Turner syndrome and related visual-spatial cognitive development: a preliminary study.** *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics*
  Green, T., Chromik, L. C., Mazaika, P. K., Fierro, K., Raman, M. M., Lazzeroni, L. C., Hong, D. S., Reiss, A. L.
  2014; 165B (6): 531-540

- **Aberrant parietal cortex developmental trajectories in girls with turner syndrome and related visual-spatial cognitive development: A preliminary study.** *American journal of medical genetics. Part B, Neuropsychiatric genetics : the official publication of the International Society of Psychiatric Genetics*
  Green, T., Chromik, L. C., Mazaika, P. K., Fierro, K., Raman, M. M., Lazzeroni, L. C., Hong, D. S., Reiss, A. L.
  2014; 165 (6): 531-540

- **Risk Factors and the Evolution of Psychosis in 22q11.2 Deletion Syndrome: A Longitudinal 2-Site Study** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
  Gothelf, D., Schneider, M., Green, T., Debbane, M., Frisch, A., Glaser, B., Zilkha, H., Schaer, M., Weizman, A., Eliez, S.
  2013; 52 (11): 1192-1203

- **Schizophrenia-like neurophysiological abnormalities in 22q11.2 deletion syndrome and their association to COMT and PRODH genotypes.** *J Psychiatr Res.*
  Zarchi , O., Carmel , ., Avni, C., Attias, J., Frisch, A., Michaelovsky, E., Patya, M., Green, T., Weinberger, R., Weizman, A., Gothelf, D.
  2013

- **Genotype-phenotype correlation in 22q11.2 deletion syndrome** *BMC MEDICAL GENETICS*
  Michaelovsky, E., Frisch, A., Carmel, M., Patya, M., Zarchi, O., Green, T., Basel-Vanagaite, L., Weizman, A., Gothelf, D.
  2012; 13

- **The feasibility and safety of S-adenosyl-l-methionine (SAMe) for the treatment of neuropsychiatric symptoms in 22q11.2 deletion syndrome: a double-blind placebo-controlled trial** *JOURNAL OF NEURAL TRANSMISSION*
  Green, T., Steingart, L., Frisch, A., Zarchi, O., Weizman, A., Gothelf, D.
  2012; 119 (11): 1417-1423

- **Phenotypic psychiatric characterization of children with Williams syndrome and response of those with ADHD to methylphenidate treatment** *AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS*
  Green, T., Avda, S., Dotan, I., Zarchi, O., Basel-Vanagaite, L., Zalsman, G., Weizman, A., Gothelf, D.
  2012; 159B (1): 13-20

- **The Effect of Methylphenidate on Prefrontal Cognitive Functioning, Inattention, and Hyperactivity in Velocardiofacial Syndrome** *JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY*

Green, T., Weinberger, R., Diamond, A., Berant, M., Hirschfeld, L., Frisch, A., Zarchi, O., Weizman, A., Gothelf, D.
2011; 21 (6): 589-595

- **[The metabolic syndrome and antipsychotics in children and adolescents].** *Harefuah*
  Dori, N., Green, T.
  2011; 150 (10): 791-?

- **Psychiatric Disorders and Intellectual Functioning Throughout Development in Velocardiofacial (22q11.2 Deletion) Syndrome** *JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY*
  Green, T., Gothelf, D., Glaser, B., Debbane, M., Frisch, A., Kotler, M., Weizman, A., Eliez, S.
  2009; 48 (11): 1060-1068

- **Creatine monohydrate in resistant depression: a preliminary study** *BIPOLAR DISORDERS*
  Roitman, S., Green, T., Osher, Y., Karni, N., Levine, J.
  2007; 9 (7): 754-758

- **[Complex posttraumatic stress disorder].** *Harefuah*
  Green, T., Kotler, M.
  2007; 146 (11): 883-?

- **[The treatment of mood stabilizers in children and adolescents suffering from bipolar affective disorder].** *Harefuah*
  Green, T., Shoval, G., Weizman, A.
  2005; 144 (11): 810-?

- **Relative-assessed psychological factors predict sedation requirement in critically ill patients** *PSYCHOSOMATIC MEDICINE*
  Green, T., Gidron, Y., Friger, M., Almog, Y.
  2005; 67 (2): 295-300

- **Acute myelogenous leukemia with splenic infarcts presenting as fulminant multi-organ failure** *LEUKEMIA & LYMPHOMA*
  Green, T., Rabinovitz, A., Sinelnikov, I., Yermiahu, T., Almog, Y.
  2003; 44 (12): 2143-2145