Neurocognitive Therapies and Translational Research SIG

ABCT Virtual Convention 2021
November 17, 2021 11:00AM EST
Meeting Agenda

• Welcome! (Angela)
• Addressing Barriers to Real World Clinical Translation (Dr. Sophia Vinogradov)
• Award Winners (Angela)
• Mentorship Program Update (Maria)
• An Homage to Tim Beck (Greg)
• SIG Publications and Webinars (Angela)
• Membership and Treasury Updates (Ryan and Andrew)
• SIG Presentations at ABCT (Ryan)
Addressing Barriers to Real World Clinical Translation of Neuroscience

Featured Guest Speaker:
Sophia Vinogradov, M.D.
Donald W. Hastings Endowed Chair, Department of Psychiatry and Behavioral Sciences
University of Minnesota Medical Center
AWARD WINNERS

Angela Fang
Thank you to our 2021 reviewers!
Emily Holmes Translational Neuroscience Training Award

Emily Holmes, PhD, DClinPsych is a Professor in Psychology at the Department of Psychology, Uppsala University, Sweden and is affiliated with the Karolinska Institutet’s Department of Clinical Neuroscience. She is a clinical psychologist and neuroscientist with an innovative program of translational research that examines the role of mental imagery in psychological disorders, and the development of new psychological interventions, such as computerized cognitive bias modification. More information about her exciting research, as well as links to her publications, can be found [here](#). She is a friend and supporter of the NTTR SIG and believes strongly that the next generation of mental health researchers will benefit from integrating neuroscience and clinical perspectives to form a discipline of “mental health science.” This award is for aspiring researchers who are intent on forging a mental-health-science career.

The award will be applied to a 3-year student membership at the NTTR SIG ($15 value), with $185 remaining to be applied towards a course, conference, or workshop of the awardee’s choice to advance their professional development in translational neuroscience.
Emily Holmes Award Winners

Tied for First Place:
- **Kahini Mehta, B.A. (University of Pennsylvania)**
  Penn Lifespan Information and Technology Center
- **Jennifer Mosley, B.S. (University of Washington)**
  Center of Neuroscience, Neuroendocrinology, & Clinical Translation

Runner Up:
- **Rebecca Krawczak, B.S. (University of Pittsburgh)**
  Program in Cognitive Affective Neuroscience
SIG Poster Expo Award Winners

First Place: Laura Bragdon, PhD
Resting State Functional Connectivity Across Motivation-based Subgroups in Obsessive-compulsive Disorder

Second Place: Clare Beatty, BA
Neurobiological Sensitivity to Unpredictable Threat and Familial Risk for the Internalizing and Externalizing Spectra in Adolescents

Third Place: Kerry Kinney, PhD
Neural Reactivity to Error as a Predictor of Psychotherapy Response in Major Depression and Social Anxiety
NTTR SIG Poster Expo
Friday 11/19 6:30-8:30 PM

1. Neurological Indicators of Attention Bias Unique to Weather Anxiety (Jacob Kraft, MS)

2. Neurobiological Sensitivity to Unpredictable Threat and Familial Risk for the Internalizing and Externalizing Spectra in Adolescents (Clare Beatty, BA)

3. Changes in Resting State Functional Amygdala Connectivity Predict Posttraumatic Stress Symptoms in Women at a 6-month Follow-up (Michael Liuzzi, MA)

4. Neural Reactivity to Error as a Predictor of Psychotherapy Response in Major Depression and Social Anxiety (Kerry Kinney, PhD)
NTTR SIG Poster Expo
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5. Cognitive Flexibility of Treatment-responders vs Non-responders in Patients with Depression After a Single-dose Ketamine Infusion (Kevin Do-Nguyen)

6. Model-based Reinforcement Learning in Mothers and Daughters: The Impact of Maternal History of Major Depression (Anna Wears, BA)

7. Altered Neural Substrates of Negative Reinforcement in OCD Patients (Benjamin Panny)

8. Differences in Fractional Amplitude of Low-frequency Fluctuation Between Secure and Insecure Attachment (Rebecca Krawczak, BS)
NTTR SIG Poster Expo
Friday 11/19 6:30-8:30 PM

9. Effects of Intravenous Ketamine on Explicit and Implicit Measures of Depression In Hospitalized Suicide Attempters (Rebecca Rohac, BS)

10. Resting State Functional Connectivity Across Motivation-based Subgroups in Obsessive-compulsive Disorder (Laura Bragdon, PhD)

11. Transdiagnostic Correlates of Hippocampal Atrophy in Cognitive Function and Trauma (Angela Griffo, BS)

12. Inaccurate Perception of Social Control in Bulimia Nervosa (Thalia Viranda, BA)
SIG Mentorship Program Updates

Maria Kryza-Lacombe
The NTTR SIG Mentorship Program Pilot was a success!

➢ 32 SIG members/affiliates participated in the pilot
➢ 23 mentorship pairs/matches were facilitated

Based on midpoint program evaluation (end of August 2021)

How would you rate your overall experience in the mentorship program so far?

- 0 (0%)
- 1 (5%)
- 2 (0%)
- 3 (5%)
- 4 (35%)
- 5 (60%)

20 responses
Satisfaction with Mentor-Mentee Match

Evaluate your experience receiving mentorship

How satisfied are you with your mentor “match”? (e.g., is the overlap in interests between you and your mentor sufficient to make the mentorship experience helpful to your professional development?)

15 responses

Evaluate your experience providing mentorship

How satisfied are you with your mentee “match”? (e.g., is the overlap in interests between you and your mentee sufficient to allow you to support your mentee’s professional development?)

13 responses

Interactions facilitated professional growth for mentees
Additional insights from midpoint program evaluation...

➢ What was helpful about participation in mentorship program (mentee perspective, based on 15 responses)
  ○ conversations about professional development (93%)
  ○ ability to network (67%)
  ○ learning about an area of translational neuroscience of interest (40%)
  ○ learning more about grant writing (33%)
  ○ learning more about clinical work (27%)
  ○ receiving feedback on application materials (20%)

➢ Frequency of interaction (email correspondence, meetings etc)
  ○ About 30% of mentorship pairs connected 1-2 times by the program midpoint
  ○ About 40% of mentorship pairs connected 2-5 times by the program midpoint

New round will launch in 2022!!

We hope you’ll consider participating as a mentor and/or mentee.

Program is open to all professional levels!
An Homage to Tim Beck

Greg Siegle
On November 2, 2021, Aaron T Beck who developed Cognitive Behavior Therapy passed away. Much has been written about him in the past week as an extraordinary clinician, scientist, mentor, colleague, and person. We are adding our voices to this chorus, particularly to acknowledge Dr. Beck’s extraordinary devotion to mechanistic science, including his support for the neuroscience underlying CBT. Beginning as a neurology resident in the 1940’s, Dr. Beck was never far from the brain, but early on noted that “in neurology there wasn’t much you could do in terms of treatment” at that time (Kaylin, Yale Medicine, 2004). That said, he never gave up looking for ties. Dr. Beck was particularly vocal about the neural basis of his cognitive model and CBT in the past 15 years, e.g., as exemplified by his 2008 American Journal of Psychiatry paper on the neural correlates of the cognitive model, 2011 Nature Reviews Neuroscience paper (Disner et al, 2011) on neural mechanisms of the cognitive model, and 2013 article (Hofmann et al, Behavior Therapy) on the science of Cognitive Therapy. His 2010 book, Cognitive Therapy of Anxiety Disorders: Science and Practice, with David Clark, has a poignant chapter on neurophysiology. His seminal Clinical Psychological Science paper (Beck & Bredemeier, 2016) unifying clinical, cognitive, biological, and evolutionary perspectives was a particularly integrative step forward for the field. His support for, and interest in neuroscience did not end in his myriad publications. Dr. Beck would frequently speak with neuroscientists in the hallways of ABCT and in private emails about the biology of the cognitive model and treatment, chose neuroscientists as scholars to train at the Beck institute, and would introduce new therapists to the strong place of neuroscience in his conception of CBT, as recently as a July 2021 Beck Institute training workshop on the subject. When he heard about neuroscience-based interventions consistent with the cognitive model, Dr. Beck would want to try them for himself. Dr. Beck’s extraordinary lifelong journey in the cognitive model gave him unique insight into both the potential and challenges of incorporating neuroscience into treatment. For example, when asked what it would take for people to use neuroimaging to see whether they are likely to respond to CBT, he immediately considered an implementation science perspective beginning with the need to get clinicians on board with providing empirical assessments such as the BDI. So many of us have felt supported, personally and professionally, by Dr. Beck in our integrative and translational journeys, spawning a next generation of scientists committed to understanding CBT from a neuroscience perspective. Dr. Beck has left us in a place where knowledge, technologies, and inspiration increasingly support a strong pathway to incorporating neuroscience in the future of CBT. We, of the NTTR, are intent on carrying on his work in advancing the neuroscience of the cognitive model, understanding of how CBT affects the brain, and how we can capitalize on neuroscience in next generation interventions.
SIG Publications and Webinars

Angela Fang
Check out the October 2021 issue of the Behavior Therapist

- Features a special collection of articles sponsored by our SIG and the ABCT Translational Neuroscience Think Tank on neuroscience translation and diverse, inclusive, and equitable practices in conducting translational research.
NTTR International Webinar Series

• Tuesdays at 12:00 PM EST / 9:00 AM PST every two months

• Provides continuing education credits for medicine, psychology, and nursing

• Webinar repository on our website includes presentations by: Drs. Emily Holmes, Catherine Harmer, Leanne Williams, Judy Illes, Jennifer Kubota
Upcoming Webinars

• **January 11, 2022**: Wolfgang Lutz, PhD (University of Trier): *The Personalization of Psychological Treatments and Data-informed in Clinical Practice*

• **March 15, 2022**: Josh Woolley MD, PhD (UCSF): *Psychedelic therapies for psychiatric disorders: An introduction and early results*

• **TBD**: Hideki Ohira, PhD (Nagoya University)
SIG Membership and Treasury Updates

• Member benefits include…
  • NTTR listserv
  • Members-only Mentorship Program - new resource!
  • Our @NTTR_SIG Twitter and website promotes our members’ research
  • Members can get involved with articles, mini-conferences/presentations, student poster competition
  • Access to NTTR research webinar recordings - new resource!

• Dues help support…
  • Annual ABCT student poster competition
  • SIG awards program (e.g., Emily Holmes award)
  • Honorarium for NTTR research webinar presenters
  • Website with dissemination materials for researchers, clinicians, and students (e.g., Neurotranslational article repository)
Membership at a Glance

• 50+ Active members in 2021-2022 membership year
  • And we already have 30+ members renewed for 2021-2022

• Last year: new option for discounted multi-year memberships: 44% of our members chose this option (including 3 “lifetime” members)

• Please renew by 12/31/21 to keep your membership active!
  • We will send a reminder email following the conference
SIG Presentations at ABCT

Ryan Jacoby
NTTR SIG Special Invited Panel

• Title: Toward an Intersectional Model of Translational Neuroscience: Engaging Marginalized Community Partners to Adopt Neuroscience in Psychology Clinics

• Date/Time: Sat Nov 20, 2021 @ 1:30pm-3:00pm (Eastern Time) - Live presentation!

• Speakers: Angela Fang (Chair), Judy Illes (Moderator), Riana Elyse Anderson, Sierra Carter, Kristen Eckstrand, Kean Hsu, Ryan Jacoby, Shawn Jones, Maria Kryza-Lacombe, Andrew Peckham, Greg Siegle, Lucina Uddin, Mariann Weierich, Mary Woody
Other Member Presentations: Thurs 11/18

• **Symposium 30** (1:55 - 3:25 PM): *The Potential of Machine Learning and Artificial Intelligence in the Delivery of Cognitive Behavioral Therapy*
  • “Neither a Silver Bullet nor the Emperor’s New Clothes: The Current Evidence for the Value of Machine Learning in Psychotherapy Personalization” (Presenter: Zachary Cohen)

• **Symposium 42** (5:15 - 6:15 PM): *The Role of Repetitive Thinking in Depression within the Autistic Community* (Discussant: Greg Siegle)
Other Member Presentations: Friday 11/19

- Symposium 41 (11:45 AM - 1:15 PM): Enhancing the Precision and Impact of Cognitive and Behavioral Therapies with Neuroscience: New Predictors and New Approaches
  - “The Neural Pathways Underlying Negative Self-referential Processing: An Experimental Investigation Using Neuromodulation in the fMRI Scanner” (Presenter: Rudi De Raedt)
Other Member Presentations: Sat 11/20

- Poster PS11-A10 (6:15-8:15 PM): *Not Just Right Experiences Are Related to Aberrant Visuospatial Processing in Individuals with Elevated Obsessive-compulsive Symptoms* (Presenter: Laura Bragdon)
Other Member Presentations: Sun 11/21

- Symposium 114 (11:45 AM - 1:15 PM): Substance Misuse and Suicidal Thoughts and Behaviors: Understanding Shared Risk
  - “Emotion-Related Impulsivity and Suicidality in Opioid Use Disorder” (Presenter: Andrew Peckham)
Helpful Links

• Neurocognitive Therapies and Translational Research SIG @ ABCT: https://www.neurocognitive-therapies.com

• National Neuroscience Curriculum Initiative (NNCI): https://www.nncionline.org/
Thanks for coming!

Please reach out if there are ways we can better support your work:

nttrsig@gmail.com