

Or Duek

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Education

2005-2007 B.A. Ben-Gurion University of the Negev, Department of Psychology

2007-2009 M.A. Ben-Gurion University of the Negev, Department of Psychology,
Clinical Psychology
Advisor: Prof. Ora Kofman
Title: Developmental effects of Acetylcholinesterase inhibitors on anxiety and depression in mice

2009-2014 Ph.D. Ben-Gurion University of the Negev, Department of Psychology
Advisors: Prof. Ora Kofman, Dr. Yamima Osher;
Title: Neurocognitive Markers of Bipolar Disorder

Employment History

8/2018-Present Post Doctorate Associate, Department of Psychiatry, Yale University
School of Medicine

2015-2018 Research Coordinator, The CREACTION study, Ben-Gurion
University of the Negev

2014 - 2018 Clinical Psychologist; Soroka University Medical Center

2010-2014 Internship in Clinical Psychology; Soroka University Medical Center

2006 Clinical work with disabled adults

Teaching Positions:

2015-2018 Supervisor: M.A students in clinical work at Soroka University
Medical Center.

2014- 2018 Lecturer: Ben-Gurion University of the Negev program at Haredi
College, Jerusalem. Course: Learning.

2014-2016 Instructor: Open University. Course: Psychological Tests

- 2012-2014 Instructor: Open University. Courses: Psychological Tests, Regression and Analysis of Variance
- 2010-2012 Instructor: Open University. Course: Regression and Analysis of Variance
- 2008-2009 Instructor: Open University. Course: Regression and Analysis of Variance, Inter-Cultural Psychology
- 2007-2008 Teaching Assistant: Ben-Gurion University of the Negev. Courses: Experimental Psychology, Cognitive Psychology

Research Positions:

- 2015-2018 Research coordinator and project manager of the CREATKids follow-up study, as part of the CREATIVE European consortium.
- 2006-2007 Research assistant: Ben-Gurion University of the Negev, Prof. Ora Kofman's lab
- 7-8/2006 Research Assistant, Zlotowski Neuroscience Center scholarship for undergraduate students. Prof. Ora Kofman's lab. Ben-Gurion University of the Negev

Awards, Citations, Honors, Fellowships

- 2006 Zlotowski Scholarship for Undergraduate Students

Clinical Work

I have worked at Soroka University Medical center at The Vivian and Seymour Milstein Family Trauma Recovery Center for Children and Adolescents as a senior clinical psychologist. The center focus on treating children and adolescents after a traumatic event including terror attacks, car accidents, domestic violence etc. As part of my work I supervised and mentored other workers and psychology students on both treatment and psycho-diagnostics tools. Before starting my post-doc position I was approved to begin supervision in clinical psychology internship. Currently I conduct psychotherapy as part of a study, using short time Prolonged Exposure (PE) protocol to treat PTSD.

Methods

I have expertise in programming and analyzing neuroimaging, cognitive, behavioral and psycho-physiological paradigms, as long as clinical interviews (constructed or semi-constructed). I have experience in building psychological and cognitive experiments with MATLAB (psychtoolbox), Psychopy and Jspsych (Java Script library). I have experience with statistical analysis using Python (Numpy, Scipy, PyMC3, scikit-learn), R, and using specific python libraries for neuroimaging data analysis (Nilearn, Nipype, Brainiak, CONN toolbox). Also have expertise in Linux environment.

Review/Editor:

Review editor: Frontiers in Psychiatry

Ad hoc: Plos One, eNeuro, Frontiers Psychology, Motivation and Emotion, European Journal of Psychotraumatology, The British Journal of Psychiatry, Neurobiology of Stress.

Memberships:

American Psychological Association (APA)

Association for Psychological Science (APS)

International Society for Traumatic Stress Studies (ISTSS)

European Society for Traumatic Stress Studies (ESTSS)

Scientific Publications

Duek, O. (2021). Functional coupling within the mesolimbic circuit in first-episode psychosis. *eNeuro*, 8(2).

Korem, N., **Duek, O.**, Xu, K., Harpaz-Rotem, I., & Pietrzak, R. H. (2021). Cannabinoid Receptor 1 rs1049353 Variant, Childhood Abuse, and the Heterogeneity of PTSD Symptoms: Results From the National Health and Resilience in Veterans Study. *Chronic Stress*, 5.

Seidemann, R., **Duek, O.**, Jia, R., Levy, I., & Harpaz-Rotem, I. (2021). The Reward System and Post-Traumatic Stress Disorder: Does Trauma Affect the Way We Interact With Positive Stimuli? *Chronic Stress*, 5.

Duek O., Spiller T., Pietrzak R., Fried E., Harpaz-Rotem I., (2020) Network analysis of PTSD and depressive symptoms in 158,139 treatment-seeking veterans with PTSD. *Depression and Anxiety*.

Finazzi S., Paci G., ...**Duek O.**, ..., Bertolini G. (2020), PROSAFE: A European endeavour to improve quality of critical care medicine in seven countries. *Minerva anesthesiologica*.

Duek, O., Pietrzak, R. H., Petrakis, I., Hoff, R., & Harpaz-Rotem, I. (2020). Early Discontinuation of Pharmacotherapy in US Veterans Diagnosed with PTSD and the role of psychotherapy. *Journal of Psychiatric Research*.

Duek, O., Kelmendi, B., Pietrzak, R. H., & Harpaz-Rotem, I. (2019). Augmenting the Treatment of PTSD with Ketamine—a Review. *Current Treatment Options in Psychiatry*.

Duek, O., Shahar, G., Osher, Y., & Kofman, O. (2018). Role of self-criticism in reward and punishment probabilistic learning. *Personality and Individual Differences*, 134, 155–163.

*Maas, A. I. R., Menon, D. K., Adelson, P. D., Andelic, N., Bell, M. J., Belli, A., Bragge, P., Brazinova, A., Büki, A., Chesnut, R. M., Citerio, G., Coburn, M., Cooper, D. J., Crowder, A. T., Czeiter, E., Czosnyka, M., Diaz-Arrastia, R., Dreier, J. P., Duhaime, A.-C., ... InTBIR Participants and Investigators. (2017). Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *Lancet Neurology*.

* contributed as a collaborator

Duek, O., Osher, Y., Belmaker, R. H., Bersudsky, Y., & Kofman, O. (2014). Reward sensitivity and anger in euthymic bipolar disorder. *Psychiatry Research*.

Lin, T*, **Duek, O***, Dori, A., & Kofman, O. (2012). Differential long term effects of early diisopropylfluorophosphate exposure in Balb/C and C57Bl/J6 mice. *International Journal of Developmental Neuroscience*, 30(2), 113-120.

*equal contribution

Dori, A., Oriel, S., Livneh, U., **Duek, O.**, Lin, T., & Kofman, O. (2011).
Acetylcholinesterase inhibitor pretreatment alters stress-induced expression of
acetylcholinesterase transcripts in the mouse brain. *Neuroscience*, 183, 90-98.

Submitted manuscripts:

Duek O.*, Seidemann, R*, Pietrzak, R. H., Harpaz-Rotem I., *Distinguishing emotional
numbing symptoms of posttraumatic stress disorder from major depressive disorder* (under review)

Duek O., Li Y., Kelmendi B., Amen S., Gordon C., Milne M., Krystal J.H., Levy I., Harpaz-Rotem
I., *Modulating amygdala activation to traumatic memories with a single ketamine infusion*
(submitted, preprint in medrxiv doi: <https://doi.org/10.1101/2021.07.07.21260166>)

Duek O., Spiller T.R., Rubenstein A., Pietrzak R., Harpaz-Rotem I., *Two clusters of intrusive
traumatic memories in PTSD: Theory and evidence* (under review)

Spiller T.R*., **Duek O.***, Helmer M., Murray J., Von-Känel R., Harpaz-Rotem I., *The uncommon is
common: Structural similarities of symptom heterogeneity across mental disorders* (under review;
preprint: [10.31234/osf.io/g4kf8](https://doi.org/10.31234/osf.io/g4kf8))

Spiller R.T., **Duek O.**, Buta E., Gross G., Smith B.N., Harpaz-Rotem I., *Comparative Effectiveness
of Group vs Individual Trauma-Focused Treatment for Posttraumatic Stress Disorder in Veterans*
(under review)

* equal contribution

Lectures and Presentations at Meetings and Invited Seminars

Duek O., Gordon C., Amen S., Kelmendi B., Levy I., Harpaz-Rotem I. *Enhancing Trauma-Memories Reconsolidation with One Time Ketamine Infusion*. A symposium at the ISTSS (2021).

Or Duek, Li Yutong, Benjamin Kelmendi, Shelley Amen, Charles Gordon, Ifat Levy, Ilan Harpaz-Rotem., *Enhancing Trauma-Memories Reconsolidation With One-Time Ketamine Infusion*. A poster presented at Biological Psychiatry (2021).

Duek, O., Kelmendi, Benjamin., Amen, Shelley., Gordon, Charles., Levy, Ifat., Harpaz-Rotem, Ilan., PTSD augmented psychotherapy with ketamine (KPE)., *Invited talk at the Appetitive Neuroimaging Seminar Series (ANSS, 2020), Yale Psychiatry*.

Harpaz-Rotem, Ilan., **Duek, Or.**, Kelmendi, Benjamin., Amen, Shelley., Gordon, Charles., Levy, Ifat (2019). Clinical and fMRI Results from a Single Infusion of Ketamine or Midazolam Prior to an Intense One-week Prolonged Exposure Therapy for PTSD. A symposium at the *International Society for Traumatic Stress Studies*.

Duek, O., Hoff Rani, Harpaz-Rotem Ilan (2019). Centrality of concentration and sleep in PTSD and Depressive symptoms - Network analysis of VA cohort. Poster presented at *International Society for Traumatic Stress Studies*.

Duek, O., Levy, I., Yutong, L., Gordon, C., Kelmendi, B., & Harpaz-Rotem, I. (2019). O40. PTSD Augmented Psychotherapy With Ketamine (KPE)-First Results. A talk presented at *Biological Psychiatry*,85(10), S122.

Lazar I., **Duek O.**, Montis A., Fleming J., Constantinidou F., Bertolini G. (2018) Preliminary Findings From the CReACTIVE Study on Acute TBI in Intensive Care Medicine in Europe. A symposium at the 4th Federal Interagency Conference on Traumatic Brain Injury (FICTBI), 2018, Washington D.C.

Duek O., Knyazer V., Neeman E., Naparstek S., Berger A., Lachish M., Tal A., Goldbart A., Paci G., Bertolini G., Lazar I. (2017) A New Comprehensive Toolbox For Assessment

Of Children's Outcome After PICU Admission Due To Traumaic Brain Injury. Poster presented at the 12th world congress on Brain Injury (IBIA) 2017, New-Orleans.

Lazar I., **Duek O.**, Knyazer V., Neeman E., Naparstek S., Berger A., Lachish M., Goldbart A., Tal A., Paci G., Carrara G., Bertolini G. (2017) Outcome Of Children After Traumatic Brain Injury – First Results of the CREATKids study. A talk presented at the 12th world congress on Brain Injury (IBIA) 2017, New-Orleans.

Neeman E., **Duek O.**, Berger A., Naparstek S., Knyazer V, Lachish M., Tal A., Goldbart A., Lazar I. (2016) The CREATIVE Project Toolbox: Evaluating PICU hospitalization outcome and child's quality of life – a pilot study Poster presented at the 8th World Congress on Pediatric Intensive and Critical Care (PICC) 2016, Toronto.

Duek O., Belmaker R.H., Osher Y., Bersudsky Y., Kofman O. (2012). Reward Sensitivity and Aggression in Bipolar Disorder. Poster presented at the International Forum on Mood and Anxiety Disorders (IFMAD) 2012, Barcelona.

Duek O., Belmaker R.H., Osher Y., Bersudsky Y., Kofman O. (2012). Reward Sensitivity in Bipolar Disorder. Talk given at Zlotowski annual retreat, Sde-Boker.

Duek O., Kofman O. (2011). Self Criticism Impairs Reward Learning. Talk given at the 15th Annual Meeting of the Israeli Society for Biological Psychiatry (ISBP), Hagoshrim, Israel, March.