Date: 3/7/20

**Nava Levit Binnun**

**CURRICULUM VITAE**

**Personal Information**

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**Academic Education**

1993-1996 **BSc in Physics** from the Hebrew University, graduated in Honors

1996-1997 Biology studies in the Hebrew University

1997-2000 **MSc in Neuroscience** from the Weizmann Institute of Science, graduated in Honors. *Thesis title: On the Perception of Biological Motion: fMRI and Pschophysical Studies.*

2001-2006 **PhD in Neuroscience** from the Weizmann Institute of Science, Summa Cum Laude. *Thesis title: Probing a Cognitive Network in the Brain with and without Schizophrenia Using Transcranial Magnetic Stimulation*

**Academic Employment**

## 2016-2019 Assistant professor (senior lecturer) at the Baruch Ivcher School of Psychology, Interdisciplinary Center (IDC), Herzliya

## 2008-2016 Lecturer at the Baruch Ivcher School of Psychology, Interdisciplinary Center (IDC), Herzliya

## 2014-present Director of the Sagol Center for Brain and Mind, IDC

2009-present Director of the Muda Center for Mindfulness, Science and Society, IDC

## 2008-2014 Co-director of the Unit of Applied Neuroscience, IDC.

2007-2008 External lecturer at the Interdisciplinary Center (IDC), Herzliya.

2007-2008 Post-doc fellow in the lab of Prof. Elisha Moses, Department of Physics of Complex Systems, Weizmann Institute of Science.

**Academic Honors and Awards**

2015 IDC Best Lecturer in Psychology School award for 2015

2007 Feinberg Excellence Prize for the PhD thesis from the Feinberg School, Weizmann Institute of Science

2000 Excellence Prize for the MSc thesis from the Feinberg School, Weizmann Institute of Science

1994 Honorary Dean list for top students

**Research Grants**

1. **Israel Science Foundation** grant No. 1169/11

Duration:10/01/11-10/01/15

Title: Characterizing Stability and Instability in the Schizophrenia Brain

Role: PI.

1. **National Institute of Psychobiology in Israel**

Duration: 10/01/14-10/01/16

Title: Assessing vulnerability of schizophrenia and healthy-sibling networks to TMS perturbations and their relation to neurological symptoms.

Role: PI.

1. **Matti Kochavi Foundation** (private foundation)

Duration: 10/01/11 - 10/01/14

Title: Development of Dyadic Biofeedback System for Improving Social Difficulties in Patients with Mental Illness.

Role: PI.

1. **Sagol Foundation** (private foundation)

Title: Applied Neuroscience

Duration: 10/01/14-10/01/19

Role: PI.

1. **Simha Foundation** (private foundation)

Duration:10/01/10-10/01/12

Title: Investigating the effect of an 8 week mindfulness training for teachers

Role: PI.

1. **Mind & Life Institute 1440 grant**

Duration: 01/09/15-01/09/16

Title: Studying interpersonal physiological attunement in experienced mindfulness meditators.

1. **Joy Foundation for research on wellness award**

Duration: 03/01/17-03/01/18

1. **Joy Foundation research on wellness grant**

Title: Identifying Central Well-being Promoting Components of Mindfulness Practice

Duration: 10/10/17-10/10/19

1. **Mind and Life Institute 1440 PEACE grant**

Title: Using a Contemplative Conflict Resolution intervention to promote teachers' and youth' beneficial engagement in controversial discussions and intergroup encounters.

Duration: 1/12/18-1/12/21

1. **Joy Foundation for research on wellness award**

Duration: 01/01/19-01/01/20

1. **Yad Hanadiv Foundation**

Title: Development and study of a mindfulness-based social-emotional program in schools

Duration 01/09/19 – 1/09/22

1. **Sagol Foundation**

Title: Development and study of a mindfulness-based social-emotional program in schools

Duration 01/09/19 – 1/09/22

**Patents**

1. Zik, O., Moses, E., **Levit-Binnun**, N., & Lindner, A. (2005). *U.S. Patent Application No. 10/344,650*.‏
2. Moses, E., Feil, J. N., Freche, D., & **Levit-Binnun**, N. (2017). *U.S. Patent Application No. 15/292,147*.‏

**Courses Taught**

1. From Brain to Mind: New frontiers and directions in Neuroscience.
2. The biological basis of behavior A
3. The biological basis of behavior B
4. Brain, cognition and emotion
5. Theoretical research seminar: Mindfulness in neuroscience and the clinic
6. Theoretical research seminar: Brain tuning and behavior
7. Social and Emotional Neuroscience (MA)
8. Guided research: interpersonal synchrony and the brain
9. Guided research: Neuroscience, mindfulness and interpersonal synchrony
10. Research seminar: Brain resilience: interpersonal interactions, mindfulness and mental training (MA).
11. Mindfulness in Stress Reduction and in Cognitive Therapy
12. Research seminar: "Brain tuning" – a framework for understanding human behavior (MA)
13. Research seminar: Mindfulness and compassion (MA)

**List of Publications**

**Articles in Refereed Journals**

1. **Levit-Binnun\* N.**, Lindner A.B., Zik O., Eshhar Z., Moses E. (2003). Quantitative detection of protein arrays. Analytical Chemistry, 75(6):1436-41.
2. **Levit-Binnun\*N.**, Schechtman E. and Flash T. (2006). [On the similarities between the perception and production of elliptical trajectories.](http://de.scientificcommons.org/13946631) Experimental Brain Research, 172 (4): 533-555.
3. **Levit-Binnun\* N.**, Handzy N., Peled A., Modai I. and Moses E. (2007). Transcranial Magnetic Stimulation in a Finger Tapping Task Separates Motor from Timing Mechanisms and Induces Frequency Doubling. Journal of Cognitive Neuroscience, 19(5):721-33.
4. **Levit-Binnun\* N.**, Handzy N., Peled A., Modai I. and Moses E. (2007). Transcranial Magnetic Stimulation at M1 disrupts cognitive networks in schizophrenia.Schizophrenia Research, 93(1-3):334-44.
5. [Dayan E](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Dayan%20E%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Casile A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Casile%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [**Levit-Binnun N**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Levit-Binnun%20N%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)**.**, [Giese M.A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Giese%20MA%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Hendler T](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Hendler%20T%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)., [Flash T](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Flash%20T%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus). (2007).Neural representations of kinematic laws of motion: evidence for action-perception coupling.Proceeding of the National Academy of Science, 104(51):20582-7.
6. **Levit-Binnun\* N**., Litvak V., Pratt H., Moses E., Zarroor M., Peled A. (2010). Differences in TMS-evoked responses between schizophrenia patients and healthy controls can be observed without a dedicated EEG system. Clinical Neurophysiology, 121(3): 332-9.
7. **Levit-Binnun\* N.**, Golland Y. (2012). Finding behavioral and network indicators of brain vulnerability. Frontiers in Human Neuroscience, 6(10).
8. **Levit-Binnun\* N.**, Davidovitch M., Golland Y. (2013). Sensory and motor secondary symptoms as indicators of network vulnerability. Journal of Neurodevelopmental Disorders, 5(1): 26.
9. Arzouan, Y., Moses, E., Peled, A., & **Levit-Binnun\*, N.** (2014). Impaired network stability in schizophrenia revealed by TMS perturbations. Schizophrenia research, 152(1): 322.‏
10. Shahar, B., Szsepsenwol, O., Zilcha‐Mano, S., Haim, N., Zamir, O., Levi‐Yeshuvi, S., & **Levit‐Binnun\*, N**. (2014). A Wait‐List Randomized Controlled Trial of Loving‐Kindness Meditation Programme for Self‐Criticism. Clinical Psychology & Psychotherapy. 22(4):346-56 ‏
11. **Levit-Binnun\* N.**, Szepsenwol O., Stern-Elran K., Engel-Yeger B (2014). The Relationship between Sensory Responsiveness Profiles, Attachment Orientations, and Anxiety Symptoms. Australian Journal of Psychology, 66: 233–240.
12. Golland Y., Keissar K., **Levit-Binnun\* N** (2014). Studying the dynamics of autonomic activity during emotional experience. Psychophysiology, *51*(11), 1101-1111.
13. **Levit Binnun\*, N**., & Tarrasch, R. (2014). Relation between contemplative exercises and an enriched psychology student's experience in a neuroscience course. Frontiers in Psychology: Educational Psychology, *5*, 1296.
14. Davidovitch M., **Levit-Binnun, N.,** Golan, D., Manning-Courtney, P. (2015) Late Diagnosis of Autism Spectrum Disorder Following Initial Negative Assessment by a Multidisciplinary Developmental Team: Reasons and Implications. The Journal of Developmental & Behavioral Pediatrics. 36(4), 227-234
15. **Levit-Binnun\*, N**., Golland, Y. (2015). Adding Network Approaches to a Neurobiological Framework of Resilience. Brain and Behavioral Sciences, 38*.*

Noy, L., **Levit-Binnun**, **N**., & Golland, Y. (2015). Being in the zone: physiological markers of togetherness in joint improvisation. Frontiers in Human Neuroscience, *9*, 187.‏

1. Golland, Y., Arzouan, Y, **Levit-Binnun\*, N.** (2015). The mere co-presence: synchronization of autonomic signals and emotional responses across co-present individuals not engaged in direct interaction. Plos One, 10(5), e0125804
2. Stern-Elran, K., Zelicha S., Sebba, R., **Levit-Binnun\*, N** (2016). Disruptive effects of colorful versus non-colorful play area on structured play – a pilot study with preschoolers. Frontiers in Psychology 7:1661
3. Alkoby A, Halperin E, Tarrasch R, **Levit-Binnun\*, N** (2017). Increased Support for Political Compromise in the Israeli-Palestinian Conflict Following an Eight-Week Mindfulness Workshop, Mindfulness 8(5):1345–1353
4. Naim-Feil J, Rubinson M, Freche D, Grinshpoon A, Peled A, Moses E, **Levit-Binnun\* N** (2017).  Altered brain network dynamics in schizophrenia: A cognitive electroencephalography study. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 3(1): 88-98
5. Golland, Y., **Levit-Binnun, N**., Hendler, T., & Lerner, Y. (2017). Neural dynamics underlying emotional transmissions between individuals. Social cognitive and affective neuroscience, 12(8): 1249-1260.‏
6. Brezis R.S., Alony T., Noy L., Golland Y. & **Levit-Binnun\*, N** (2017). Patterns of Joint Improvisation in Adults with Autism Spectrum Disorder. Frontiers in Psychology 8:1790.
7. Rubinson M, **Levit-Binnun N**, Peled A, Freche D, Moses E (2017). Novel hierarchy measurement for modelling network dynamics under directed attack. Physical Review E 96 (4).
8. Ergas, O., Hadar, L. L., Albelda, N., & **Levit-Binnun\*, N**. (2018). Contemplative Neuroscience as a Gateway to Mindfulness: Findings from an Educationally Framed Teacher Learning Program. Mindfulness, Volume 9 (6): 1723–1735.‏
9. Freche, D., Naim-Feil, J., Peled, A., **Levit-Binnun, N.,** & Moses, E. (2018). A quantitative physical model of the TMS-induced discharge artifacts in EEG. PLoS computational biology, 14(7): e1006177.‏
10. Alkoby, A., Pliskin, R., Halperin, E., *&* **Levit-Binnun\*, N**. (2018). An eight-week mindfulness-based stress reduction (MBSR) workshop increases regulatory choice flexibility. Emotion, 19(4):593-604.‏
11. Golland, Y., Hakim, A., Aloni, T., Schaefer, S., **& Levit-Binnun\***, **N.** (2018). Affect dynamics of facial EMG during continuous emotional experiences. Biological psychology, 139: 47-58.‏
12. Golland, Y., Mevorah, D., & **Levit-Binnun\***, **N**. (2019). Social spread of positive facial signals: affiliative zygomatic synchrony in co-present individuals, Scientific Reports, 9, 3120
13. Rubinson, M., Horowitz, I., Naim-Feil J., Gothelf, D., Moses, E., **Levit-Binnun\*, N**.,(2019). EEG functional networks reveal global effects of Methylphenidate in youth with ADHD. Brain connectivity, 9(5):437-450
14. Rubinson, M., Horowitz, I., Naim-Feil J., Gothelf, D., **Levit-Binnun, N**., and Moses, E. (2019). Effects of Methylphenidate on the ERP amplitude in youth with ADHD: A double-blind placebo-controlled cross-over EEG study. PLoS One, 14(5): e0217383
15. Eidelman-Rothman, M., Ben-Simon, E., Freche, D., Keil, A., Hendler, T., & **Levit-Binnun\*, N**. (2019). Decreased Inter Trial Phase Coherence of Steady-State Visual Evoked Responses in Sleep Deprivation.‏ Neuroimage, 202: 116055.
16. Borelli J., Fogel S., Shay., D**., Levit-Binnun, N**., Golland, Y.(2019), Interpersonal Physiological Regulation During Support Interactions: Respiratory Sinus Arrhythmia and Emotional Support. Psychophysiology, 56(11):e13443.
17. Rousseau, S., Kritzman, L., Frenkel, T., **Levit-Binnun, N.,** Golland, Y (2019). The association between mothers’ and daughters’ positive affect is moderated by child cardiac vagal regulation. Developmental Psychobiology, in press.
18. Freche, D., Naim-Feil, J., Hess, S., Peled, A., Grinshpoon, A., Moses, E., **Levit-Binnun\***, **N**. Phase-amplitude markers of synchrony and noise: A resting-state and TMS-EEG study of schizophrenia. Cerebral Cortex Communications, in press.
19. Horowitz, I., Aviram, K., Naim-Feil, J., Rubinson, M., Moses, E., Gothelf, D., **Levit-Binnun\*, N**. The interactive effects of test-retest and methylphenidate administration on cognitive performance in youth with ADHD: a double-blind placebo-controlled crossover study, Psychiatry Research, in press.

**Conference Presentations (papers, posters)**

1. **Levit-Binnun N**, Lindner AB, Zik O, Eshhar Z, Moses E , "Enhanced dynamic range and sensitivity of protein arrays using gold probes and scanning electron microscopy", ***Oral Presentation*** in Biophysical Society Meeting, San Francisco, 2002.
2. **Levit-Binnun N**, Handzy N., Peled A, Modai I. Moses E , Inhibition of the left dorsolateral prefrontal cortex promotes healthier function in schizophrenia and provides evidence for a mal connected network, ***Oral Presentation*** in Israeli Society of Neuroscience, Eilat, 2006.
3. **Levit Binnun N**, Peled A, Moses E. Probing synchronous internal processes by precisely controlled transcranial magnetic stimulation. ***Poster***in 14th Annual Meeting of the Israeli Society for Neuroscience. Eilat Nov 2004.
4. **Levit Binnun N**, Peled A, Modai I. Moses E. To “close the loop” between measurement and perturbation – first steps toward a “brain pacemaker.” ***Poster***in14th Annual Meeting of the Israeli Society for Neuroscience. Eilat Nov 2004.
5. **Levit Binnun N,** Peled A, Modai I. Moses E. Coupling TMS with EEG brain pacemaker. ***Poster*** in the 10th Annual Meeting Israeli Society of Biological Psychiatry, Hagoshrim, 2005.
6. Nestor H, **Levit Binnun N**, Peled A, Modai I. Moses E. Transcranial magnetic stimulation at M1 disrupts cognitive networks in schizophrenia patients. ***Oral Presentation*** in the 10th Annual Meeting Israeli Society of Biological Psychiatry, Hgosrim, 2005.
7. **Levit Binnun N**, Handzy N., Peled A, Modai I. Moses E. Transcranial Magnetic Stimulation at M1 disrupts high-level cognitive networks in patients of schizophrenia, ***Oral Presentation*** in the 6th International Congress in Neuropsychiatry, 2006
8. **Levit Binnun N**, Moses E. The importance of being stable and balanced-a therapy inspired network approach. ***Oral Presentation*** in the 16th Annual meeting of the Israeli Society of Neuroscience, Eilat, 2006.
9. **Levit Binnun N**. The Importance of Being Stable and Balanced – Brain Conditions for a Healthy Development, ***poster*** presented in the *Neuropsychonalaysis Society Conference*, Paris, 2009.
10. **Levit Binnun N**, Peled A, Moses E, Arzouan Y. Probing Stability of Neuronal Networks in Schizophrenia Using TMS and TMS-EEG. ***Oral Presentation*** in the FirstItaly-Israel Dialogue on Cognitive and Affective Neuroscience, IDC, Herzliya, 2011.
11. **Levit Binnun N**, Golland Y**.** Finding behavioral and network indicators of brain vulnerability. ***Oral Presentation*** in the 14th annual meeting of the Israel Psychiatric Association, Tel Aviv, 2012
12. Golland Y, **Levit-Binnun N**. The mere co-presence: studying the physiological effects of the presence of others**. *Oral Presentation*** in the the 21st Annual meetings of Israeli Society of Neuroscience, Eilat, 2013.
13. Arzouan Y, Moses E, **Levit-Binnun N.** Impaired network stability in schizophrenia. ***Oral Presentation*** in the the 21st Annual meetings of Israeli Society of Neuroscience, Eilat, 2013.
14. Naim-Feil J, Moses E, Peled A, Arzouan, Y, **Levit-Binnun, N.** Brain connectivity in Schizophrenia: A TMS-EEG network study***. Poster*** in the 21st Annual meetings of the Israeli Society of Neuroscience (ISFN), Eilat, 2013.
15. Golland Y, **Levit-Binnun N**, Hendler T, Lerner, Y. Shared feelings: investigating the neural mechanisms of implicit emotional transmissions. ***Oral Presentation*** in the Israeli Society of Neuroscience, Eilat, 2014.
16. Rubinson M, Raz G, Gonen T, Shamay-Tsoory S, Cohen D, Hendler T, Moses E, **Levit-Binnun N**. A “Glocal” Outlook on Neuroscience: A Novel Network Approach for Examining Global and Local Characteristics of the Brain. ***Oral Presentation*** in the Israeli Society of Neuroscience, Eilat, 2014.
17. Golland Y., **Levit-Binnun, N.,** Hendler T., Lerner Y. Neural Attunement to the emotions of others. ***Oral Presentation*** in SFN's 45 Annual Meeting, Chicago, 2015
18. Freche, D, **Levit Binnun, N**., Naim-Feil, J., Rubinson, M, Moses,E**, *Oral Presentation*** in SFN's 45 Annual Meeting, Chicago, 2015
19. Tel-Zur, D., Nadav R.,Mintz, M., **Levit-Binnun, N**. *&* Golland Y. I feel you: facial and autonomic synchrony in strangers. ***Oral Presentation*** the 24th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2016.
20. Naim-Feil J., Rubinson M., Freche D., Grinshpoon A., Peled A., Moses E., **Levit-Binnun** (2016), Network dynamics and cognition in schizophrenia: A cognitive-EEG study, ***Oral Presentation*** the 24th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2016.
21. Golland Y & **Levit-Binnun N**. Studying emotions in time and across people. ***Oral Presentation*** in the 6th Brain and Behavior meeting of the Haifa Forum for Brain and Behavior, Haifa, Israel, 2016
22. Ergaz O, Hadar L, Albelda N, **Levit-Binnun N**, Contemplative neuroscience as a gateway for teacher mindfulness, ***Oral Presentation*** in International Symposium for Contemplative Studies, San Diego, 2016
23. **Levit Binnun N,** Alkoby A, Tarrasch R, Halperin E. Increased Support for Political Compromise in the Israeli-Palestinian Conflict Following an Eight-Week Mindfulness Workshop. ***Oral Presentation*** in International Symposium for Contemplative Studies, San Diego, 2016
24. Brezis, R.S., Golland, Y., Alony, T., Noy, L., **Levit-Binnun, N.** Interpersonal Sensory-Motor Synchrony in Adults with Autism Spectrum Disorder during a Joint Improvisational Game. ***Poster in*** *The 6th International Meeting of the Haifa Forum for Brain and Behavior.* Haifa, Israel, 2016.
25. Alkoby A, Pliskin R, Halperin E, **Levit-Binnun N**. ***Poster in*** More adaptive emotion regulation choice following a mindfulness course, 2rd International conference on resilience Research, Meinz, Germany, 2016
26. **Levit-Binnun N**., A network perturbation approach to studying brain vulnerability, ***Oral Presentation*** in 2rd International conference on resilience Research, Meinz, Germany, 2016
27. Brezis, R.S., Noy, L., Alony, T., Gotlieb, R., Cohen, R.L., Golland, Y., **Levit-Binnun, N**. Patterns of Joint Improvisation in Adults with Autism Spectrum Disorder. *International Meeting for Autism Research.* San Francisco, USA, 2017
28. **Levit-Binnun N**, Naim-Feil J, Peled A, Grinshpoon A, Fresche A, Moses E. Electroencephalography (EEG) combined with TMS to probe circuit stability and dynamics in schizophrenia – a novel feature for early diagnosis and assessment of treatment efficiency? ***Oral Presentation*** in the 21st Annual meeting of the Israel Society of Biological Psychiatry, Kfar Blum, Israel, 2017
29. Naim-Feil J., Freche D., Hess S., Grinshpoon A., Peled A., Moses E., **Levit-Binnun N**. Abnormal patterns of cortical activity in Schizophrenia: A TMS-EEG multiple session study. ***Oral Presentation*** the 25th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2017.
30. Rubinson, M., Horowitz, I., Naim-Feil J., Gothelf, D., Moses, E\*., **Levit-Binnun, N**., An EEG study on the effects of Ritalin on dynamics of cognitive task-based functional connectivity in youths with ADHD ***Poster***, the 25th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2017.
31. Freche D., Naim-Feil J., Grinshpoon A., Peled A., Moses E., **Levit-Binnun N**. Phase analysis of TMS-evoked responses in Schizophrenia reveals alterations in ongoing activity that can explain previously reported response variability. ***Poster*** the 25th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2017.
32. **Levit Binnun N**. & Golland Y. Physiological Synchrony Across People: a Mechanism for the Social Spread of Emotions, ***Oral Presentation*** in CERE, Glasgow, 2018
33. Alkoby A, Pliskin R, Halperin E, **Levit-Binnun N**. Increasing Regulatory Choice Flexibility Through an Eight-Week Mindfulness-Based Workshop, ***Oral Presentation*** in CERE, Glasgow, 2018
34. Eidelman-Rothman M, Ben-Simon E, Freche D, Keil A, Hendler T, **Levit-Binnun N**. Decreased Phase Locking of Steady-State Visual Evoked Responses in Sleep Deprivation, ***poster in*** CuttingEEG conference, Paris, 2018
35. Brezis, R.S., Levin, A., Oded, Y., Zahavi, O., Gampel, G., **Levit-Binnun, N.** A Biofeedback-based Embodied Awareness Intervention for Adults with ASD: Feasibility of a Community-Based Treatment. International Society for Autism Research*.* ***poster in*** Rotterdam, Netherlands, 2018
36. Ergaz O, Hadar L, Albelda N, **Levit-Binnun N**, De-educating neuromyths: A teacher learning program focused on neuroscience, ***Oral Presentation*** in AERA, New York, 2018
37. Alkoby A, Pliskin R, Halperin E, **Levit-Binnun N**. Cultivating "Right Effort": Increased Regulatory Choice Flexibility Following an Eight-Week Mindfulness-Based Workshop, ***poster in*** International Conference Mindfulness (ICM), Amsterdam, 2018
38. **Levit-Binnun, N**., Federman, A., Avisar, A., A Mindfulness-based framework for social change, ***Oral Presentation*** in International Conference Mindfulness (ICM), Amsterdam, 2018
39. Golland, Y. & **Levit-Binnun, N**. Neural, autonomic and facial synchrony in social-emotional contexts. The 22nd Annual Meeting of the Israel Society of Biological Psychiatry. ***Oral Presentation*** in Symposium on social synchrony in close relationships. Kibbutz Kfar Blum, Israel, 2018.
40. Golland, Y. & **Levit-Binnun, N.** The social spread of emotions: interpersonal synchrony across emotion-related response systems. Symposium: Brain to Brain: Behavioral, Physiological and Neural Mechanisms of Interpersonal Behavior. ***Oral Presentation*** in Fifth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2018**.**
41. Ardi, Z., Shafir, R., Birk J., Sheppes, G, Golland, Y., and **Levit-Binnun, N.** Evaluating the mediating effects of interoception ability on the relation between mindfulness practice and emotion regulatory flexibility. ***Oral Presentation*** in Fifth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2018**.**
42. Freche D. , Naim-Feil J., Grinshpoon A., Peled A., Moses E., **Levit-Binnun N**. Phase analysis of TMS-EEG in schizophrenia reveals alterations of spatial and temporal synchronization, ***Oral Presentation*** in the 22nd Annual Meeting of the Israel Society of Biological Psychiatry. Kibbutz Kfar Blum, Israel, 2018.
43. **Levit-Binnun, N.,** Ardi, Z., Alkoby, A., From "Yoniso manasikara (wise attention)" to "regulatory flexibility": Harnessing Eastern and Western Wisdoms to Investigate Mechanisms of Contemplative Practices, ***Oral Presentation*** in ISCR, Arizona, 2018.
44. **Levit-Binnun, N.**, Arbel, K., Federman, A., Mindfulness: A practical map of practices & their transformative domains. ***Oral Presentation*** in the 23nd Annual Meeting of the Israel Society of Biological Psychiatry. Kibbutz Kfar Blum, Israel, 2019
45. Ardi, Z., Shafir, R., Birk J., Sheppes, G, Golland, Y., and **Levit-Binnun, N.** Increasing reliability of interoceptive signals following a mindfulness intervention is associated with adaptive emotion regulation choices, ***Oral Presentation*** in the 23nd Annual Meeting of the Israel Society of Biological Psychiatry. Kibbutz Kfar Blum, Israel, 2019
46. Twait, E., Radbogin, I., **Levit-Binnun, N**., Horowitz Kraus, T., Probing Behavioral and Neurophysiological Effects of a Mindfulness Training on Executive Function and Social Cognition in Preschoolers, ***Oral Presentation*** in the 23nd Annual Meeting of the Israel Society of Biological Psychiatry. Kibbutz Kfar Blum, Israel, 2019
47. Twait, E., Radbogin, I., **Levit-Binnun, N**., Horowitz Kraus, T., Probing Behavioral and Neurophysiological Effects of a Mindfulness Training on Executive Function and Social Cognition in Preschoolers, ***Oral Presentation*** in Sixth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2019
48. Ardi, Z., Shafir, R., Birk J., Sheppes, G, Golland, Y., and **Levit-Binnun, N.** Increasing reliability of interoceptive signals following a mindfulness intervention is associated with adaptive emotion regulation choices, ***poster*** in Sixth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2019
49. Dor Ziderman, Y., Cohen, D., **Levit Binnun, N**., and Golland, Y., Dynamic Effects of Care on Autonomic, Facial and Subjective Attunement to Others’ Distress, ***poster*** in Sixth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2019
50. Eidelman-Rothman, M., Ben-Simon, E., Freche, D., Keil, A, Hendler, A and **Levit-Binnun, N**. Decreased Inter Trial Phase Coherence of Steady-State Visual Evoked Responses in Sleep Deprivation, ***poster*** in Sixth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2019
51. Cohen, D., Landau, D., **Levit-Binnun, N**., Golland, Y. Immersive 360o Video Technology in the Service of Social Neuroscience: A Media Comparison Study, ***poster*** in Sixth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2019
52. Twait, E., Radbogin, I., **Levit-Binnun, N**., Horowitz Kraus, T., Probing Behavioral and Neurophysiological Effects of a Mindfulness Training on Executive Function and Social Cognition in Preschoolers, ***Oral Presentation*** in the 27th Israel Society for Neuroscience (ISFN) Annual Meeting, 2019.
53. Ardi, Z., Shafir, R., Birk J., Sheppes, G, Golland, Y., and **Levit-Binnun, N.** Increasing reliability of interoceptive signals following a mindfulness intervention is associated with adaptive emotion regulation choices, ***Oral Presentation*** in the 27th Israel Society for Neuroscience (ISFN) Annual Meeting, 2019.
54. Eidelman-Rothman, M., Ben-Simon, E., Freche, D., Keil, A, Hendler, A and **Levit-Binnun, N**. Decreased Inter Trial Phase Coherence of Steady-State Visual Evoked Responses in Sleep Deprivation, ***poster*** in the 27th Israel Society for Neuroscience (ISFN) Annual Meeting, 2019.

**International Conferences - Organizing committee**

2017 - Cognitive Improvement**:** Approaches, Mechanisms and Applications, Bar Ilan University, Israel

2020 - ASSC 24 (Association for the Scientific Study of Consciousness), Tel Aviv, Israel

**Chaired Symposia**

1. Mindfulness: cognitive mechanisms, Fifth conference on cognition research of the Israeli Society for Cognitive Psychology (ISCOP). Acre, Israel, 2018
2. Mindfulness: Mechanisms of Change & Clinical Applications, The 23nd Annual Meeting of the Israel Society of Biological Psychiatry. Kibbutz Kfar Blum, Israel, 2019
3. The developing brain, the 27th Israel Society for Neuroscience (ISFN) Annual Meeting, Eilat, 2019.

**Invited Talks**

1. **Levit-Binnun N**, Lindner AB, Eshhar Z, Moses E, "Quantitative Detection of Protein Arrays", ***Invited talk*** in the Gordon Research Conference, "Bioanalytical Sensors", Cambridge UK, 2004
2. Levit Binnun N, Handzy N, Rotem A, Moses E., "TMS Of Neurons And Networks, With Implications To Schizophrenia", ***Invited talk*** in the Transcranial Magnetic Stimulation: Achievements, disappointments and future directions , an interdisciplinary workshop. Bar Ilan, Israel, 2007.
3. **Levit-Binnun N**. "Brains in Need of "Tuning": External and Internal Regulation

and "Brain-Tuning" Techniques", ***Invited talk*** in the Fourth Herzliya Symposium on Personality and Social Psychology "The social psychology of meaning, mortality, and choice", IDC, Herzliya, 2011.

1. **Levit-Binnun N**, Arzouan Y, Moses E, "Vulnerable brains – a theoretical, experimental and practical approach", ***Invited talk*** in the Bar Ilan Brain Seminar, Bar Ilan, Israel, 2013.
2. **Levit-Binnun N**, Arzouan Y, Moses E, "Vulnerable brains – a theoretical, experimental and practical approach", ***Invited talk*** in the Bar Ilan Business Seminar, Bar Ilan, Israel, 2013.
3. **Levit-Binnun N**, Arzouan Y, Moses E, "Vulnerable brains – a theoretical, experimental and practical approach", ***Invited talk*** in the Tel Aviv Functional Brain Center, Sourasky Medical Center, Israel, 2013.
4. **Levit-Binnun N**, Arzouan Y, Moses E, "Vulnerable brains – a theoretical, experimental and practical approach", ***Invited talk*** in the Tel Aviv Functional Brain Center, Sourasky Medical Center, Israel, 2013.
5. **Levit-Binnun N**, the Perturbable Brain, ***Invited talk*** in the Psychiatric Brain Symposium, Shaar Menashe, Israel, 2013
6. **Levit-Binnun N**, Mindfulness and memory, ***Invited talk*** in the Departmental Seminar of Behavioral Science, Peres Academic Center, 2013
7. **Levit-Binnun N**, Introduction to Mindfulness, ***Invited talk*** in the Israel Brain Technologies (IBT), Tel Aviv, Israel, 2013
8. **Levit-Binnun N**, Vulnerable Brains – possible clinical and physiological indicators. ***Invited talk*** in theDepartmental Seminar, Psychobiology, Tel Aviv University, Israel 2014
9. **Levit-Binnun N**, Understanding Brain Vulnerability – A Theoretical and Experimental Approach, ***Invited talk*** in the Haifa University, Neuroscience Dept. Seminar, 2015
10. **Levit-Binnun N**, Does the 21st Century Environment promote Brain Resilience? ***Invited talk*** in the Sdnat Yuval Neeman Brain Revolution, Tel Aviv University, Israel, 2014.
11. **Levit-Binnun N**, Understanding Brain Vulnerability – A Theoretical, Experimental and Practical Approach, ***Invited talk*** in the Weissman Center Seminar, University of Wisconsin-Madison, Madison, Wisconsin 2015
12. **Levit-Binnun N**, Frontiers in Neuroscience-an appetizer, ***Invited talk*** in The Atara Kaufman Inaugural Conference in Law, Science & Technology, IDC, Herzliya, Israel, 2016
13. **Levit-Binnun N**, Mindfulness: harnessing the faculty of attention and awareness for improvement of resilience and cognitive function . ***Invited talk*** in the Conference on Cognitive Improvement: Approaches, Mechanisms and Applications, Bar Ilan University, Israel, 2017
14. **Levit-Binnun N**, Mindfulness, Brain and Awareness. ***Invited talk*** in the Conference on contemplative pedagogy, Mofet, Tel Aviv, 2018

**Non-Refereed Papers**

1. **Levit Binnun N**, Golland Y, Davidovitch M, Rolnick A., The Biofeedback Odyssey: From Neal Miller to Current and Future Models of Regulation. Biofeedback 2010, Vol. 38, No. 4, pp. 136-141.
2. **Levit-Binnun\* N**, Kaplan-Milgran R, Raz Y., Removing the Constraints on Our Choices: A Psychobiological Approach to the Effects of Mindfulness-Based Techniques. In P. R. Shaver & M. Mikulincer (Eds.), *The social psychology of meaning, mortality, and choice*. Washington, DC: American Psychological Association.
3. **Levit-Binnun N** & Golland Y. The orchestra of attention functions. In “Attention in Infants” edited by Pnina Klein (Hebrew)
4. **Levit Binnun, N.** & Ergas, O. (2016). Mindfulness and the plastic brain. Hed Hachinuch, Tzadik (3), 50-53 (Hebrew)