

Name: Dr. Lior Bikovski

Date: 01/09/2021

CURRICULUM VITAE

1. Personal Details

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2. Higher Education

A. Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
2004-2007	Tel-Aviv-Yafo College	B.A in Social Sciences & Psychology	2007
2008-2010	Tel-Aviv University	M.A. in Psychobiology	2010
2010-2018	Tel-Aviv University	PhD in Psychobiology	2018

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2018-Current	Tel-Aviv University	Teaching Fellow
2018-Current	Netanya Academic college	Teaching Fellow

4. Offices in Academic Administration

2015 – Current: Director of the Myers Neuro-Behavioral Core Facility, Sackler Faculty of Medicine, Tel Aviv University

5. Scholarly Positions and Activities outside the Institution

2008 – Current: Israel Society for Neuroscience (ISFN)

2015 – Current: International Behavioral Neuroscience Society (IBNS)

2016 – Current: The Society for Neuroscience (SFN)

2016 – Current: Stockholder in the European EQIPD* program

2018 – Current: European Measuring Behavior (MB) conferences.

2018 – Current: Federation of European Neuroscience Societies (FENS).

2020 – Current: MouseHouse COST Action – an Israeli representative in the Action Management, Monitoring and Assessment COST-action grant

* The development of new medicines has slowed dramatically in the past decade. The EQIPD project tackles the root causes of this problem, and aims to reverse this trend. Members of the EQIPD program are representatives from Academia (e.g. Charite in Berlin), Pharma (e.g. Novartis), Industry (e.g. Noldus), CRO's (e.g. Sylics), and Core Facilities (e.g. The Myers Neuro-Behavioral Core Facility)

6. Participation in Scholarly Conferences

a. Active Participation (speaker in a session)

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
June 2018	Measuring Behavior (MB) 2018	UK	A core facility point of view on behavioral research	Chair and speaker
April 2019	ILAF	Israel	Behavioral phenotyping for human disorders in mice	Invited lecture
Aug 2019	Baltic summer school on behavioural characterization of rodent models of major brain disorders	Estonia	Standartization & calibration in behavioral neuroscience	Invited lecture
February 2020	ILANIT	Israel	Measuring Behavior	Round Table Moderator
May 2022	Measuring Behavior (MB) 2022	Poland	How to replicate behavior in the lab: lessons learned from 50 users a year	Chair and speaker

b. Organization of Conferences or Sessions

Date	Name of Conference	Place of Conference	Subject of Conference/ Role at Conference/ Comments	Role
2018	Measuring Behavior (MB) 2018	UK	Behavioral neuroscience\organizer of session	Chair and speaker
2020	Webinar	International - virtual	Ethovision – an expert point of view on automation of behavior	Organizer and speaker
2021	Webinar	International - virtual	CatWalk – webinar (with Weizmann institute collaboration)	Organizer and speaker
2022	Measuring Behavior (MB) 2022	Poland	Behavioral neuroscience\organizer of session	Chair, speaker and reviewer of abstracts

7. Invited Lectures\ Colloquium Talks

Date	Place of Lecture	Name of Forum	Presentation/Comments
December 2018	the Netherlands	Noldus	Behind the core: The theoretical and practical issues of the (Behavioral) core facility
April 2019	Israel	ILAF	Behavioral phenotyping for human disorders in mice
May 2019	Israel	IDC class Colloquium	Switching our brain on/off: The story of western alternative treatment
Aug 2019	Estonia	Baltic summer school	Standartization & calibration in behavioral neuroscience
May 2020	Israel	IDC class Colloquium	Science in trouble: Review on how science is conducted and created
November 2020	Virtual webinar – international	Inside Scientific	Lessons From The Core: Longitudinal Assessment vs. Point Sampling of Behaviors in Mice
May 2021	Virtual webinar – national	Joint Weizmann Institute & Tel Aviv University	CatWalk Tutorial
May 2021	Virtual webinar – international	Noldus webinar	Gait analysis assessment tools in rodents
June 2021	Israel	IDC class Colloquium	Neurobehavioral assessment tools

8. Teaching

a. Courses Taught in Recent Years

Year	Name of Course and facility	Type of Course Lecture/Seminar/ Workshop/High Learn Course/ Introduction Course (Mandatory)	Degree	Number of Students
2015-current	Bio-Psychology at Netanya College	Introduction course	B.A.	12~
2016-current	Measuring behavior in pre-clinical at Tel Aviv University	Introduction course	M.A. & PhD	10~
2018-current	Psychopathology at Netanya College	Introduction course	B.A.	12~
2018-current	Perception at Netanya College	Introduction course	B.A.	12~
2019-current	Introduction to Psychology at Netanya College	Introduction course	B.A.	60~
2020-current	Scientific literacy and thinking strategies at Netanya College	Seminar	B.A. & M.A.	12-14

PUBLICATIONS

1. **Bikovsky L**, Hadar R, Soto-Montenegro ML, Klein J, Weiner I, Desco M, Pascau J, Winter C, Hamani C. Deep brain stimulation improves behavior and modulates neural circuits in a rodent model of schizophrenia. *Journal of experimental Neurology*, 283:142-150 (2016). (**I.F. 4.483; Overall Ranking 1345**) doi:10.1016/j.expneurol.2016.06.012.
2. Heim LR, Badar M, Edut S, Rachmany L, Baratz-Goldstein R, Lin R, Qubty D, **Bikovski L**, Rubovitch V, Schreiber S, Pick CG. The invisibility of mild traumatic brain injury: impaired cognitive performance as a silent symptom. *Journal of Neurotrauma*, 34(17): 2518-2528 (2017). (**I.F 5.001; Overall Ranking 2002**). doi:10.1089/neu.2016.4909.
3. Hadar R, **Bikovski L**, Soto-Montenegro ML, Schimke J, Maier P, Ewing S, Voget M, Wieske F, Gotz T, Desco M, Hamani C, Pascau J, Weiner I, Winter C. Early neuromodulation prevents the development of brain and behavioral abnormalities in a rodent model of schizophrenia. *Journal of Molecular Psychiatry*, 23: 943-951 (2017). (**I.F. 11.973; Overall Ranking 227**). doi:10.1038/mp.2017.52.
4. Namdar, I., Feldman, R., Glazer, S., Meningher, I., Shlobin, N.A., Rubovitch. V., **Bikovski, L.**, Been. E., Pick CG. Motor Effects of Minimal Traumatic Brain Injury in Mice. *Journal of Molecular Neuroscience*, 1-13 (2020). (**I.F 2.891; Overall Ranking 4785**). doi: 10.1007/s12031-019-01422-9
5. **Bikovski, L.**, Robinson, L., Konradsson-Geuken, A., Kullander, K., Viereckel, T., Winberg, S., ... & Tsoory, M. Lessons, insights and newly developed tools emerging from behavioral phenotyping core facilities. *Journal of Neuroscience Methods*, 334, 108597 (2020). (**I.F 2.93; Overall Ranking 2870**). <https://doi.org/10.1016/j.jneumeth.2020.108597>
6. Tsvion-Visbord, H., Perets, N., Sofer, T., **Bikovski, L.**, Goldshmit, Y., Ruban, A., & Daniel, O. Mesenchymal stem cells derived extracellular vesicles improve behavioral and biochemical deficits in a phencyclidine model of schizophrenia. *Translational Psychiatry*, 10(1), 1-10. (2020). (**I.F 5.49; Overall Ranking 908**). <https://doi.org/10.1016/j.biopsych.2020.02.508>
7. Oxana Kapitansky, Gidon Karmon, Shlomo Sragovich, Meishar Shahoha, Iman Janjuli, **Lior Bikovski**, Eliezer Giladi, and Illana Gozes. (2020). Single Cell ADNP Predictive of Human Muscle Disorders: Mouse Knockdown Results in Muscle Wasting. *Cells*, 9(10), 2320. (**I.F 4.366**)
8. Roma Parikh, Eschar Sorek, Shivang Parikh, Keren Michael, **Lior Bikovski**, Sagi Tshori, Galit Shefer, Shira Mingel green, Taiba Zornitzki, Hilla Knobler, Gabriel Chodick, Mariya Mardamshina, Arjan Boonman, Noga Kronfeld-Schor, Hadas Bar-Joseph, Dalit Ben-Yosef, Hadar Amir, Mor Pavlovsky, Hagit Matz, Tom Ben-Dov, Tamar Golan, Eran Nizri, Daphna Liber, Yair Liel, Ronen Brenner, Yftach Gepner, Orit Karnieli-Miller, Rina Hemi, Ruth Shalgi, Tali Kimchi, Ruth Percik, Aron Weller, Carmit Levy (2021). Skin exposure to UVB light induces a skin-brain-gonad axis and sexual behavior. *Cell Reports*, 36(8), 109579. (**I.F 8.109**)
9. Fabrizio Grieco, Briana Bernstein, Barbara Biemans, **Lior Bikovski**, C. Joseph Burnett, Jesse Cushman, Elsbeth A. van Dam, Sydney Fry, Bar Richmond Hacham, Judith Homberg, Martien J.H. Kas, Helmut W. Kessels, Bastijn Koopmans, Michael J. Krashes, Vaishnav Krishnan, Sreemathi Logan, Maarten Loos, Katharine McCann, Qendresa Parduzi, Chaim G. Pick, Thomas D. Prevot, Gernot Riedel, Lianne Robinson, Mina Sadighi, August B. Smit, William Sonntag,

Reinko Roelofs, Ruud A.J. Tegelenbosch, Lucas P.J.J. Noldus. (2021) Measuring behavior in the home-cage: Study design, applications, challenges, and perspectives. *Frontiers in behavioral neuroscience*, 15. (I.F 2.512)

doi: 10.3389/fnbeh.2021.735387

10. Leonardo Restivo, Björn Gerlach, Michael Tsoory, **Lior Bikovski**, Sylvia Badurek, Claudia Pitzer, Isabelle C. Kos-Braun, Anne-Laure M.J. Mausset Bonnefont, Jonathan Ward, Michael Schunn, Lucas P.J.J. Noldus, Anton Bernalov, Vootele Voikar. (2021) Towards Best Practices in Research. *EMBO Reports*, (I.F 8.807)

DOI: 10.15252/embr.202153824

11. Anton Bernalov, René Bernard, Anja Gilis, Björn Gerlach, Javier Guillén, Vincent Castagné, Isabel A Lefevre, Fiona Ducrey, Lee Monk, Sandrine Bongiovanni, Bruce Altevogt, María Arroyo-Araujo, **Lior Bikovski**, Natasja de Bruin, Esmeralda Castaños-Vélez, Alexander Dityatev, Christoph H Emmerich, Raafat Fares, Chantelle Ferland-Beckham, Christelle Froger-Colléaux, Valerie Gailus-Durner, Sabine M Hölter, Martine CJ Hofmann, Patricia Kabitzke, Martien JH Kas, Claudia Kurreck, Paul Moser, Malgorzata Pietraszek, Piotr Popik, Heidrun Potschka, Ernesto Prado Montes de Oca, Leonardo Restivo, Gernot Riedel, Merel Ritskes-Hoitinga, Janko Samardzic, Michael Schunn, Claudia Stöger, Vootele Voikar, Jan Vollert, Kimberley E Wever, Kathleen Wuyts, Malcolm R MacLeod, Ulrich Dirnagl, Thomas Steckler. (2021) Introduction to the EQIPD quality system. *Elife*, 10, e63294. (I.F. 7.08)

A. Ph.D. Dissertation

Subject of dissertation: “The effects of deep brain stimulation (DBS) in adulthood or in adolescence on behavioral and brain abnormalities in the offspring of dams exposed to gestational immune stimulation”.

In my dissertation I presented results (behavioral, Imaging, and histology) regarding the treatment and prevention in a Schizophrenia rat model, using deep brain stimulation in 3 main brain areas (the nucleus accumbens, medial prefrontal cortex, and dorsolateral thalamic nucleus). My project was funded by Era-Net with collaboration of 5 other labs (European and Canadian), and resulted in 2 papers so far.

Dissertation work was supervised by: Prof. Ina Weiner.

K. Submitted Publications

Submitted:

1. Parikh S, Parikh R, Michael K, Golan T, Ben-Dov T, **Bikovski L**, Malcov-Brog H, Gleich O, Barnabas G, Liber D, Pavlovsky M, Matz H, Gonen P, Percik R, Perluk T, Geiger T, Ast G, Frand J, Brenner R, Khaled M, Ben-Eliyahu S, Oren M, Karnieli-Miller O, Weller A, Levy C. UV exposure enhances appetite in low estrogen background via p53 upregulation of ghrelin in skin adipocytes.

2. Tseitlin Liron, Richmond Hacham Bar, Pick G. Chaim, **Bikovski Lior**. Longitudinal assessment vs. sampling of behavior in mild traumatic brain injury.