

**CV**  
**Maytal Shabat-Simon**  
**2023-2024**

**A. Personal Details**

- Full: Maytal Shabat-Simon
- Place of Birth: Israel
- Permanent Address: Hadera, Israel
- Cell phone: 050-2624233
- Email Address: [maytalsh@telhai.ac.il](mailto:maytalsh@telhai.ac.il)

**B. Higher Education**

Period of Study	Institute	Area of Specialty	Degree
1998-2001	Life Sciences Faculty, Bar-Ilan University, Ramat-Gan, Israel	Biology	B.Sc.
2001-2003	Life Sciences Faculty, Bar-Ilan University, Ramat-Gan, Israel	Biology, Neurobiology	M.Sc. With honors
2004-2009	Department of Physiology and Pharmacology, Faculty of Medicine, Tel Aviv University, Israel Department of Neurobiology, Weizmann Institute of Science, Israel	Biology, Neurobiology	Ph.D.
2009-2010	Department of Neurobiology, Weizmann Institute of Science, Israel	Biology, Neurobiology	Post doc Position
2010-2012	Department of Neurology, Johns Hopkins, School of Medicine, Baltimore, USA. National Institute On Aging (NIA), National Institute of Health (NIH), Baltimore, USA	Neuroscience Research, Laboratory of Neurosciences	Post doc Position
2012-2014	Oranim Academic College, Kiryat Tivon, Israel	Master Teach and a Teaching Certificate	M.teach
2014-2015	CRA/GCP – Certified Clinical Research Associate – BioForum, Tel Aviv, Israel IV - Blood Withdrawal Certification Course (Tel Ha-Shomer Hospital)	Clinical Research	Certificate
2022-2024	College of Law and Business	Law student	LL.B. (class of 2024)

**C. Academic Appointments and Academic Administrative Positions in Institutions of Higher Education**

Years	Institute	Position
2002	Bar Ilan University, Ramat Gan, Israel.	Teaching position (Teacher Assistant)

Years	Institute	Position
2007-2008	University of Derby - The Israeli branch, Israel.	Teaching position (Lecturer)
2008	Faculty of Immunology, the Weizmann Institute of Science – under the supervision of Prof. Roth Arnon, Israel.	Research Assistant
2012-2017	Pat Matthews School of Nursing, Hillel Yaffe Medical Center, Hadera, Israel.	Teaching position (Lecturer)
2012-2015	The School of Nursing at Meir Hospital Center, Kfar Saba, Israel.	Teaching position (Lecturer)
2013-2017	Kibbutzim College of Education – Seminar Hakibbutzim, Tel Aviv, Israel.	Teaching position (Lecturer)
2013-2016	Neuroeconomics and Neuromarketing Marketing Department, Recanati Business School Tel Aviv University, Israel	Research associate
2014-2016	School of Psychological Sciences Tel Aviv University, Israel	Research associate
2017-now	Tel hai academic college	Senior Lecturer lecturer and researcher Head of the Neuropedagogy and Decision-Making lab (NDM Lab) Head of the Science and Biology Teaching Program (B.Ed) Head of the Design and development of learning and teaching Program(M.Ed)
2021-2023	<i>Yigal Alon Kinneret Limnological Laboratory</i>	Research associate - Sabbatical

#### D. Teaching

- **Academic institutions**

Years	Institute	Courses Taught
2002	Bar Ilan University, Ramat Gan, Israel.	Animal Physiology
2007-2008	University of Derby - The Israeli branch, Israel.	Introduction to Biology
2012-2017	Pat Matthews School of Nursing, Hillel Yaffe Medical Center, Hadera, Israel.	Introduction to pathology

Years	Institute	Courses Taught
2012-2015	The School of Nursing at Meir Hospital Center, Kfar Saba, Israel.	Introduction to pathology
2013-2017	Kibbutzim College of Education – Seminar Hakibbutzim, Tel Aviv, Israel.	Introduction to psychopathology Introduction to psychophysiology Human nutrition The brain – from seeing to visual perception
2018-now	The Max Stern Yezreel Valley College, Jezreel Valley, Israel.	Introduction to pathology Introduction to physiology and anatomy
2017-now	Tel hai academic college (Ohalo college)	The Principles of Life and Biology Introduction to physiology To See and To Listen Biophilia: Understanding Nature and the Environment - MOOC The Human Nervous System The Neurobiology of behavior Introduction to Zoology Scientific Writing Physical Exercise and the Defense System of the Human Body

- **Non-academic institutions**

2012-2015 Amal High school, Hadera, Israel – Biology and Health Sciences

E. **Supervision of Graduate Students**

- Kibbutzim College of Education – supervised 3 master students

F. **Research Grants, Awards and Fellowships**

Year	Funding Institute	Budget
2002	Scholarship for Academic Excellence, awarded by the Banin Foundation	2,000 \$
2005	INRC – International Narcotics Research Conference	1,000 \$
2009	Post-doctoral internship – Weizmann Institute	90,000 ₪
2010	Post-doctoral internship - USA	84,000 \$
2017	Ohalo Academic College of Education	10,000 ₪
2018	Ohalo Academic College of Education and MIGAL- Galilee Technology Center, Northern R&D	24,000 ₪
2019	Ohalo Academic College of Education	8,000 ₪
2020	Ohalo Academic College of Education and Shamir Research Institute	15,000 ₪

G. **Active Participation in Conferences**

1. **Shabat-Simon M**, Gal Zagron, Michal Shayit, Iris Gispan and Gal Yadid. Prenatal Exposure to Cocaine: Abnormal Physiology and Behavior in One-Day-Old Rat Pups. *Israel J. Biol. Psych.*, 2002. Oral lecture presented in the meeting of the Israel Society for Biological Psychiatry. Kfar Giladi, Israel.

2. **Shabat-Simon M**, Noa Kinor, Iris Gispan-Herman, David H. Overstreet and Gal Yadid. A Role of the Cholinergic System in Depressive Behavior. *Neural Plast.*, 2003. Poster session presented in the meeting of the Israel Society for Biological Psychiatry. Kfar Giladi, Israel.
3. **Shabat-Simon M**, Rehavi M. and Zangen A. The Role of Non-NMDA Glutamate Receptors in the Ventral Tegmental Area in Opioid Reward and Sensitization. *Neural Plasticity*. 2004 Vol 12 (1). Poster session presented in the Israeli Society for Neuroscience – ISFN 13<sup>th</sup> annual meeting in Eilat, Israel.
4. **Shabat-Simon M**, Amir A, Levy D, Rehavi M, Zangen A. Dissociation Between the Rewarding and the Psychomotor Sensitization Effects of Opiates: Different Roles for Glutamate Receptors in Anterior and Posterior VTA. Poster session in mini-satellite organized by NIDA-NIH, presented in the SFN Washington, USA, 2005 – **Travel Award Winning** by INRC – International Narcotics Research Conference.
5. **Shabat-Simon M**, Amir A, Levy D, Rehavi M, Zangen A. The Rewarding and Psychomotor Properties of Opiates: Do They Have Different Glutamatergic-Mediated Neuronal Circuits within the VTA? Poster session in the meeting of the Israel Society for Biological Psychiatry - 2006. Kibutz H-Goshrim, Israel.
6. **Shabat-Simon M**, Amir A, Rehavi M, Zangen A. The Expression of Behavioral Sensitization to Cocaine is Prevented by Intra-Accumbens Microinjection of Insulin. Poster session, presented in the SFN San-Deigo, USA, 2007.
7. Levy D, **Shabat-Simon M**, Barnea-Ygael N, Zangen A. Electrical Brain Stimulation of the Medial Forebrain Bundle Reduces the Effect of Cocaine-Related Cues on Locomotion and Craving. *Neural Plasticity*. 2004 Vol 12 (1)
8. Barnea-Ygael N, Levy D, **Shabat-Simon M**, Zangen A. Chronic Cocaine Treatment Alters Values of Effort and Tolerance in Rats as Detected by a Novel Method of Motivation Assessment. *The Journal of the European College of Neuropsychopharmacology*, Volume 15 (2005), Supplement 3, Page S585
9. Levy D, **Shabat-Simon M**, Barnea-Ygael N, Katzir A, Zangen A. Repeated Electrical Brain Stimulation of Reward-Related Brain Regions Reduces Cocaine Seeking and Alters Glutamate Receptor Levels. *SFN 2005, Fens 2006*.
10. E. Toth, R. Gersner, **M. Shabat-Simon** and A. Zangen. The effect of subconvulsive electrical stimulation of the nucleus accumbens on depressive behavior. *European Neuropsychopharmacology*, Volume: 17 Pages: S334-S334 Supplement: Suppl. 4 Published: OCT 2007.
11. Doron Yablecovitch \*, **Maytal Shabat – Simon \***, Rina Aharoni, Raya Eilam, Ori Brenner, and Ruth Arnon. The beneficial effect of Glatiramer Acetate treatment on Syndecan-1 expression in Dextran Sodium Sulfate colitis. Oral lecture presented in the meeting of the Israeli Gastrointestinal Association conference. Tel Aviv, Israel.
12. Lavi-Avnon, Y., Dayan, M., **Shabat-Simon, M**, Kimchi T. Studying the role of pheromonal detection in social reward using microdialysis assay in freely behaving mice. *JOURNAL OF MOLECULAR NEUROSCIENCE*, Volume: 48 Supplement: 1 Pages: S25 S25 Published: NOV 2012
13. Maytal Shabat Simon, Anastasia Shuster, Tal Sela, Dotan Persitz, Dino J Levy. State-dependent valuation and choice: behavioral and physiological interactions between internal state and decision making. 13th annual meeting of the Society For Neuroeconomics. *Neuroeconomics: decision making and the brain*, Miami, Florida, USA, 2015.
14. L. Shaashua, M. Shabat-Simon, R. Haldar, M. Shabtai, E. Sharon, T. Alweis, O.Zmora, S. Cole, S. Ben-Eliyahu. Perioperative COX-2 inhibition and beta-adrenoceptor blockade in breast cancer patients improve markers of immunity and reduce inflammation and primary tumor epithelial-to-mesenchymal transition (EMT). 23rd Annual PNIRS Scientific Meeting;

Brighton, England June 8-11, 2016.

H. **Non-Academic Activity & Positions**

Supervising high school students – science projects (“Galilium” Project).

I. **Publications**

1. Gersner R, Dar DE, **Shabat-Simon M**, Zangen A (Apr. 2005). Behavioral Analysis During the Forced Swimming Test Using a Joystick Device. *J Neurosci Methods*. 143 (2):117-21.
2. Malkesman O, Braw Y, Maayan R, Weizman A, Overstreet DH, **Shabat-Simon M**, Kesner Y, Touati-Werner D, Yadid G, Weller A (Jan, 2006). Two different putative genetic animal models of childhood depression. *Biological Psychiatry*. 59 (1):17-23.
3. Butovsky E, Juknat A, Elbaz J, **Shabat-Simon M**, Eilam R, Zangen A, Altstein M, Vogel Z (Apr, 2006). Chronic Exposure to Delta(9)-tetrahydrocannabinol Downregulates Oxytocin and Oxytocin-Associated Neurophysin in Specific Brain Areas. *Mol Cell Neurosci*. 31 (4):795-804.
4. Maayan R, Lotan S, Doron R, **Shabat-Simon M**, Gispán-Herman I, Weizman A, Yadid G (Jul, 2006). Dehydroepiandrosterone (DHEA) attenuates cocaine-seeking behavior in the self-administration model in rats. *Eur Neuropsychopharmacol*. 16 (5):329-39.
5. Levy D\*, **Shabat-Simon M\***, Shalev U, Barnea-Ygael N, Cooper A, Zangen A (Dec, 2007). Repeated Electrical Brain Stimulation of Reward-Related Brain Regions Alters Cocaine but not ‘Natural’ Reward-Associated Behaviors. *J Neurosci*. 27 (51):14179-89. \* **Equal contributor**.
6. **Shabat-Simon M**, Levy D, Amir A, Rehavi M and Zangen A (Aug, 2008). Dissociation Between the Rewarding and Psychomotor Sensitization Effects of Opiates: Different Roles for AMPA Receptors within Anterior and Posterior Portions of the Ventral Tegmental Area. *J Neurosci*. 28(34):8406-16.
7. Lewitus GM, Wilf-Yarkoni A, Ziv Y, **Shabat-Simon M**, Gersner R, Zangen A, Schwartz M (Feb, 2009). Vaccination as a novel approach for treating depressive behavior. *Biol Psychiatry*. 65(4):283-8.
8. Doron Yablecovitch \*, **Maytal Shabat – Simon \***, Rina Aharoni, Raya Eilam, Ori Brenner, and Ruth Arnon (May, 2011). The beneficial effect of Glatiramer Acetate treatment on Syndecan-1 expression in Dextran Sodium Sulfate colitis. *J Pharmacol Exp Ther*. 337(2):391-9. \* **Equal contributor**.
9. Yablecovitch D, Stein A, **Shabat-Simon M**, Naftali T, Gabay G, Laish I, Oren A, Konikoff FM (Aug, 2015). Soluble Syndecan-1 Levels Are Elevated in Patients with Inflammatory Bowel Disease. *Dig Dis Sci*. 60(8):2419-26.
10. Baneth G, Nachum-Biala Y, **Shabat Simon M**, Brenner O, Gaier S, Rojas A, Yasur-Landau D (May, 2016). Leishmania major infection in a dog with cutaneous manifestations. *Parasit Vectors*. 9(1):246.
11. Shaashua, L.\*, **Shabat-Simon, M.\***, Haldar, R., Matzner, P., Zmora, O., Shabtai, M., ... & Arevalo, J. M., Ma J., Horowitz M., Cole S.W., Ben-Eliyahu S. (2017). Perioperative COX-2 and  $\beta$ -adrenergic blockade improves metastatic biomarkers in breast cancer patients in a phase-II randomized trial. *Clinical Cancer Research*, clincanres-0152. \* **Equal contributor**.
12. **Shabat-Simon, M.**, Shuster, A., Sela, T., & Levy, D. J. (2018). Objective physiological measurements but not subjective reports moderate the effect of hunger on choice behavior. *Frontiers in Psychology*, 9.
13. Hakim, A., Klorfeld, S., Sela, T., Friedman, D., **Shabat-Simon, M.**, & Levy, D. J. (2021). Machines learn neuromarketing: Improving preference prediction from self-reports using multiple EEG measures and machine learning. *International Journal of Research in Marketing*, 38(3), 770-791.
14. Ricon-Becker, I., Haldar, R., **Shabat-Simon, M.**, Gutman, M., Cole, S. W., Ben-Eliyahu, S., & Zmora, O. (2022). Effect of perioperative COX-2 and beta-adrenergic inhibition on 5-year disease-

free-survival in colorectal cancer: A pilot randomized controlled Colorectal Metastasis Prevention Trial (COMPIT). *European Journal of Surgical Oncology*.