

CURRICULUM VITAE

- **Personal Details**

Royi Barnea

Date and place of birth: Sep 9th 1983, Israel

Address and telephone number at work: Assuta Medical Centers.

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- **Academic Education:**

B.Sc 2006-2008: Bar-Ilan University, Faculty of Life Sciences, **Neuroscience.**

M.Sc 2009-2011: Bar-Ilan University, Faculty of Life Sciences, **Life-Science.**

Name of advisor: Prof. Gal-Yadid

Title of thesis: The beta-endorphin peptide as a new treatment for the incubation of cocaine craving.

PhD 2011-2015: Bar-Ilan University, Faculty of Life Sciences, **Neuropharmacology.**

Name of advisor: Prof. Yadid Gal

Title of thesis: A synergetic approach for treating the incubation of cocaine craving.

MHA 2017-2019: Ben-Gurion University, Guilford-Glazer Faculty of Business and Management, Department of Health Systems Management.

- **Employment History**

2020- present: lecturer (Adjunct lecturer), Netanya academic college

2017-present: Principal Investigator, Assuta Health Services Research Institute. Initiating and performing studies dealing mainly with health services, health economics and health policy. Raising research grants, promoting research collaboration with several institutes. Managing researchers.

2015-2016: Epidemiologist, Assuta Medical Center. Performing a variety of studies on different topics. Planning the research hypothesis, analyzing the data and writing scientific grants and papers.

2009-2015: Performing a research in lab-animals during the M.Sc. and Ph.D. studies. Conducting procedures in-vivo such as: surgical procedures, behavioral models for testing drug addiction, stress and anxiety, depression, etc.

Responsible for writing scientific reports and leading the research towards the clinic.

Professional Activities

(b) Editor or member of editorial board of scientific or professional journal

AMR (Assuta Medical Report), 2017-present

(c) Ad-hoc reviewer for journals

PLOS One, Israel Journal of Health Policy Research

(d) Membership in professional/scientific societies

2011-2015, Israel Society for Neuroscience

2017-present, Israel Society for Quality in Healthcare

- Educational activities

(a) Courses taught

- The brain and its function, course assistant (oral lecture on a weekly basis for graduate and BSc students). Bar-Ilan University, 2011-2015.
- Advanced Epidemiology, lecturer (Adjunct lecturer), Netanya academic college. Graduate students.
- Safety and Quality in Healthcare, lecturer (Adjunct lecturer), Netanya academic college. Graduate students.

- **Awards, Citations, Honors, Fellowships**

2011-2015: Bar-Ilan University. An excellence scholarship for Ph.D studies from 'Milgat Hanasee'

2014: ECNP - European College of Neuropsychopharmacology. Best poster award. Poster title: Trajectories of epigenetic landscapes define progression to cocaine addiction.

2015: Bar Ilan University - Life-Science Faculty award for scientific Breakthrough. Paper title: Role of DNA Methylation in the Nucleus Accumbens in Incubation of Cocaine Craving.

2017: The Israel Society for Quality in Healthcare Annual Meeting. Tel-Aviv, Israel. Best poster award (3rd place)

- **Scientific Publications**

H-index 11

Sum of times cited 355, without self-citations 302

- **Publications:**

1. Dikshtein Y^s, **Barnea R^s**, Kronfeld N^s, Roth-Deri I^s, Friedman A^s, Gispan I^c, Ben Tzion M^c, Yadid G^{PI}. Beta-endorphin via the delta opioid receptor is a major factor in the incubation of cocaine craving. *Neuropsychopharmacology* 2013; 38(12):2508-14. (24 citations, IF 6.751; 14/271, Q1)
2. Bekker L^s, **Barnea R^s**, Brauner A^s and Weller A^{PI}. Adolescent rats are prone to binge eating behavior: A study of age and obesity as risk factor. *Behav Brain Res* 2014; 270: 108-11. (8 citations, IF 2.977; 14/53, Q2).
3. Massart R^{s*}, **Barnea R^{s*}**; Dikshtein Y^s, Suderman M^s; Meir O^s, Hallett M^s; Kennedy P^s, Nestler EJ^c, Szyf, M^c; Yadid G^{PI}. Role of DNA Methylation in the Nucleus Accumbens in Incubation of Cocaine Craving. *Journal of Neuroscience* 2015; 35(21):8042-58. (71 citations, IF 5.674; 39/272, Q1).
4. Susmallian S^{PI}, Ponomarenko O^c, **Barnea R^c**, Paran H^c. Obturator hernia as a frequent finding during laparoscopic pelvic exploration A retrospective observational study. *Medicine* 2016; 95(27). (6 citations, IF 1.552; 89/165, Q3).
5. **Barnea R^s**, Bekker L^s, Zifman N^s, Marco A^s, Yadid G^c, Weller A^{PI}. Trait and state binge eating predispose towards cocaine craving. *Addiction Biology* 2017; 22: 163-171. (3 citations, IF 4.0121; 3/20, Q1).
6. Lax E^s, Friedman A^s, Massart R^s, **Barnea R^s**, Abraham L^s, Cheisvili D^s, Zada M^s, Ahdoot H^s, Bareli T^s, Warhaftig G^s, Visochek L^c, Suderman M^s, Cohen-Armon M^c, Szyf M^{PI}, Yadid G^c. Parp-1 is required for retrieval of cocaine-associated memory by binding to the promoter of a novel gene encoding a putative transposase inhibitor. *Molecular Psychiatry* 2017; 22:570-579, (2 citations ;IF 12.384; 6/155 ;Q1)
7. Susmallian S^{PI}; Goitein D^c; **Barnea R^c**; Raziell A^c. Correct Evaluation of Gastric Wall Thickness May Support a Change in Staplers' Size When Performing Sleeve Gastrectomy. *Israel Medical Association Journal* 2017; 6; 351-54. (4 citations, IF 0.86; 129/165, Q4)
8. Susmallian S^{PI}, Folb E^c, **Barnea R^c**, Raziell A^c. Comparison of Imaging Modalities for Detecting Complications in Bariatric Surgery. *Obesity Surgery* 2018; 28(4) 1063-69. (1 citation, IF 3.412; 36/210, Q1).
9. **Barnea R^c**; Weiss Y^c; Abadi-Korek I^c; Shemer J^{PI}. The epidemiology and economic burden of hip fractures in Israel. *Israel Journal of Health Policy Research* 2018;7 (2 citations, IF 1.741; 81/171, Q2)

10. Susmallian S^{PI}; **Barnea R^C**; Weiss Y^C; Raziell A^C. Outcome of bariatric surgery in older patients. *Surgery for Obesity and Related Diseases* 2018; 11:1705-13. (6 citations, IF 3.812; 30/210, Q1)
11. Susmallian S^{PI}, Raziell A^C, **Barnea R^C**, Paran H^C. Jan 2019. Bariatric surgery in older adults Should there be an age limit? *Medicine* 2019; 98(3). (1 citation, IF 1.552; 89/165, Q3).
12. Susmallian S^{PI}, Nikiforova I, Azoulai S^E, **Barnea R^E**. Aug 2019. Outcomes of bariatric surgery in patients with depression disorders. *PLoS One*. 2019 Aug 27;14(8):e0221576. (1 citation, IF 2.74; 27/71, Q2)
13. **Barnea R^{PI}**, Voronenko L^S, Zu L^S, Reyehav I^E, Weiss Y^{PI}. Oct 2019. Analyzing Operating Room Utilization in a Private Medical Center in Israel. *Isr Med Assoc J*. 2019 Oct;21(10):644-648. (1 citation, IF 0.86; 129/165, Q4)
14. Nikiforova I^S, **Barnea R^C**, Azulai S^S, Susmallian S^{PI}. Analysis of the Association between Eating Behaviors and Weight Loss after Laparoscopic Sleeve Gastrectomy. *Obes Facts*. 2019;12(6):618-631. (1 citation, IF 3.514; 35/89, Q2)
15. Susmallian S^{PI}, Danoch R^C, Raskin B^S, Raziell A^S, **Barnea R^C**, Dvora P^C. Assessing Bleeding Risk in Bariatric Surgeries: A Retrospective Analysis Study. *Dig Dis*. 2020;38(6):449-457. doi: 10.1159/000506456. Epub 2020 Feb 13. PMID: 32053819. (IF 2.493; 63/88, Q3)
16. **Barnea, R^{PI}**, Weiss Y^C, and Shemer J^{PI}. "Health: an essential component of national resilience." *Journal of Global Health Reports* 4 (2020): e2020068. (IF 2.899; 56/193 Q2)
17. **Barnea R^C**, Weiss Y^C, Shemer J^{PI}. Living with an ongoing crisis - insights from the coronavirus - SARS-CoV. *Harefuah*. 2020 Sep;159(9):630-635. Hebrew. (IF 0.17; Q4)
18. **Barnea R^{PI}**, Niv-Yagoda A, Weiss Y. Reforms of the public-private divide in Israel's health care system - the effect on private for-profit hospitals. *Israel Journal of Health Policy Research*. 2021 Mar 15;10(1):23 (IF 1.741; 81/171 Q2)
19. Tur-Sinai A, **Barnea R^C**, Tal O. Analyzing patient trust through the lens of hospitals managers-The other side of the coin. *PLoS One*. 2021 Apr 27;16(4):e0250626 . (IF 2.74; 27/71, Q2)
20. Ron R, **Barnea R**, Azaria B, Szyper Kravitz M. Informed Consent for Surgery: What's Really Going On There? *Harefuah*. Accepted July 2021.
 - **Unrefereed professional articles and publications**
 1. Yadid G^{PI}, Redlus L^S, Barnea R^S, Doron R^C. 2012. Modulation of mood states as a major factor in relapse to substance use. *Frontiers in Molecular neuroscience*. Vol 5 23; 5:81. (7 citations, IF 3.902; 74/261., Q2).
 2. Susmallian S^{PI}; **Barnea R^C**; Paran H^C. Jun 2018. The role of cholangiography nowadays. *Chirurgia-Italy*. Vol 31 Issue 3(99-102). No Rank (review)
 3. Susmallian S^{PI}, Raskin B^C, **Barnea R^C**. 2016. Surgical sponge forgotten for nine years in the abdomen: A case report. *International Journal of Surgery case reports*. Vol 28;296-99. No Rank.

4. Susmallian S^{Pl}, Raziel A^c, Nikiforova I^s, Sherf-Dagan S^c, Hershkovitz-Rokah O^c, **Barnea R^c**. Jun 2017. Do pre-surgery eating habits affect weight loss one year following a sleeve gastrectomy? Clinical Nutrition Espen. Vol 19: 64-9. No Rank.
5. Patient's perspectives on the patient right law – insight from a national survey. **Book chapter** published in: "The patient's right law- the incomplete revolution". Book Editors: Joshua Shemer, Shmulik Ben Yaacov and Yossi Weiss

- **Lectures and Presentations at Meetings and Invited Seminars**

Barnea R, Dikshtein Y , Feiler Y, Sudai E , Rehavi G & Yadid G. Intensive cocaine self-administration decreases GluR2 RNA editing levels at the R-G site. Presented at the 14th annual conference of the Israeli Society for biological psychiatry, HaGoshrim, Israel, March 23-25, 2010. Poster presenter.

Barnea R, Dikshtein Y& Yadid G. A role for SIRT6 in cocaine addiction. Presented at the 15th annual conference of the Israeli Society for biological psychiatry, HaGoshrim, Israel, March 22-24, 2011. Poster presenter

Barnea R, Bekker L, Brauner A, Yadid G& Weller A. "State" and "trait" binge eating predict cocaine craving in rats. Presented at the 16th annual conference of the Israeli Society for biological psychiatry, HaGoshrim, Israel, March 27-29, 2012. **Oral lecturer.**

Barnea R, Marco A, Bekker L, Weller A and Yadid G. Different eating patterns may lead to alterations in cocaine seeking behavior. Presented at the 4th annual conference of the Leslie and Gonda brain research center conference, Ein-Gedi, Israel, February 27-29, 2012. **Oral lecturer.**

Barnea R, Dikshtein Y, Massart R, Szyf M& Yadid G. Trajectories of epigenetic landscapes define progression to cocaine addiction. Presented at the 18th annual conference of the Israeli Society for biological psychiatry, HaGoshrim, Israel, March 25-27, 2014. **Oral lecturer.**

Barnea R, Zada M, Bareli T, Gispan I, Yadid G. The delta opioid receptor as a new target for treating the incubation of cocaine craving. Presented at the 22nd annual conference of the Israel Society for Neuroscience (ISFN) Eilat, Israel, December 13-15, 2014. **Oral lecturer.**

Barnea R, **Weiss Y**. Cultural Competence Awareness, Humanism and Patient's Experience in a Private Medical Centers Network. Presented at the 12th annual conference of the Israel National Institute for Health. Tel-Aviv, Israel, May 8th, 2017. **Poster presenter.**

Barnea R, Susmallian S, Raziel A, Weiss Y. Outcomes of bariatric surgery in the elderly population: a retrospective study. Presented at the 4th annual conference of the Israeli Association of Public Health Physicians. Ramat- Gan, Israel, June 5, 2017. **Poster presenter.**

Barnea R, Weiss Y. "School of professionalism" as an assimilation tool for humanism and professionalism in Assuta Medical Center. Presented at the 5th annual conference of the Academy for Professionalism in Health Care. Chicago, USA, April 27-29, 2017. Poster presentation.

Barnea R, Weiss Y, Golan M. Cultural Competence Awareness, Humanism and Patient's Experience in a Private Medical Centers Network. Presented at the 5th annual conference of the Academy for Professionalism in Health Care. Chicago, USA, April 27-29, 2017. Poster presentation.

Barnea R, Weiss Y, Shemer J. Epidemiology and economic burden of hip fractures in Israel. Presented at the 24th annual conference of the Israel Society for Quality in Healthcare. Tel-Aviv, Israel, November 22, 2017. **Poster presentation.**

Barnea R, Weiss Y, Shemer J. **Epidemiology and economic burden of hip fractures in Israel.** Presented at the 13th annual conference of the Israel National Institute for Health Policy Research. Tel-Aviv, Israel, May 9th, 2018. **Oral presentation.**

Barnea R, Weiss Y, Shemer J. Epidemiology and economic burden of hip fractures in Israel. Presented at the 5th annual conference of the Israeli Association of Public Health Physicians. Ramat- Gan, Israel, June 4, 2018. **Oral presentation.**

Barnea R, Niv-Yagoda A. The effect of the new health regulations on the healthcare system in Israel. Presented at the 6th annual conference of the Israeli Association of Public Health Physicians. Ramat- Gan, Israel, June 3, 2019. **Oral presentation.**

Barnea R, Berger R, Yehezkel Y, Agronov E, Ron R. What is the optimal size for hospital in Israel in the 21st century. Israeli Association of Public Health Physicians. Ramat- Gan, Israel. **Poster presentation.**

Barnea R, Berger R, Zazut O, Rozin M, Ron R. Mobile Mammography unit as a tool for reducing Health inequalities. Presented at the 6th annual conference of the Israeli Association of Public Health Physicians. Ramat- Gan, Israel, June 3, 2019. **Poster presentation.**

- **Meeting Abstracts:**

1. Yadid G., Dikshtein Y., **Barnea R.**, Kronfeld N. Merenlender A. Gispan A. Alcohol 45;3;284-284, May 2011, Opioids, ***Mood and Craving***, c=0;IF=2.425;JR=10/19;Q3
2. Dikshtein Y., Barnea R., Gertler A. Peshty V. Maraton D. Kanfy Y. Cohen HY Yadid G. ***European Neuropsychopharmacology*** March 2012; s-24-s25;Supp.1 c=0;IF=4.129;JR=40/197;Q1
3. Yadid G., Massart R. **Barnea R.** Dikshtein Y. Suderman M. Meir O. Hallett M. Kennedy P. Nestler EJ, Szyf M. ***European Neuropsychopharmacology*** Oct. 2014, 24;s683-s684 c=0,IF=4/129, JR=
4. Nikiforova I; Raziel A; **Barnea R**; Susmallian S. May 2018. The patient's eating habits should be considered at the time of recommending the type of bariatric surgery to be carried out? ***Obesity Surgery***. Vol 28 Supplement 1 (s102-3) (c=0, IF 3.89; JR18/200, Q1). Conference: 8th Congress of the European-Chapter of the International-Federation-for-the-Surgery-of-Obesity-and-Metabolic-Disorders (IFSO-EC) Location: Athens, GREECE Date: MAY 17-19, 2018 Sponsor(s): Int Federat Surg Obes & Metab Disorders, European Chapter

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- **Research Grants**

(b) Competitive Research Grants

Years	Granted by Institute/Company	<i>Names of all grantees</i> Investigator (Principal/,other)	Subject	Total Amount
Accepted 2016- 2019	ACACR	PI – Oshrat Rokah, PhD Investigators: Royi Barnea, PhD- Writing proposal. Ifat Abadi-Korek, PhD Natalia Goldberg, MD	MicroRNAs in body fluids as a novel biomarker combined with PET/CT and PET/MR for the diagnosis of anatomical allocation of distant lesions in Prostate Cancer Patients	8,000 USD
Accepted 2019	The Israel National Institute for Health Policy	Prof. Yossi Weiss, PhD – PI Royi Barnea PhD – Initiating and writing proposal.	The effect of legislative amendments (the Arrangements Law and the Cooling off period Law) on the scope of elective surgeries and health expenditure	8,000 USD
Accepted 2020	The Israel National Institute for Health Policy	Dr. Erela Rotlevi MD – PI Noa Dror-Lavi, MHA – Co PI Dr. Tzahit Simon- tuval, PhD Royi Barnea PhD	Change in pattern of healthcare utilization following the opening of Samson Assuta Ashdod University Hospital	25,000 USD
Accepted 2020- 2021	The Israel National Institute for Health Policy	Dr. Bella Azaria, – PI Dr. Martine Szyper- Kravitz -co PI	Patients' Perceptions of Informed Consent Process -	35,000 USD

		Royi Barnea PhD – (involved in Initiating and writing proposal)	Comparison Between Public and Private Hospitals in Israel	
Accepted 2021	The National Insurance Institute of Israel	Joshua Shemer, MD Royi Barnea, PhD – co PI Reut Ron MPH	Hospital- Community Continuity of Care in Fragile Patients Before and After Major Surgery	30,000 USD
Submitted 2021 (pending – full proposal)	The Israel National Institute for Health Policy	Royi Barnea, PhD - PI Pnina Schlefer	Examining the pros and cons of home rehabilitation following orthopedic surgery	33,000 USD
Submitted 2021 (pending – full proposal)	Chief Scientist, Ministry of Science and Technology	Royi Barnea, PhD – PI Meirav Ben David, MD Gabriel Stanovsky, PhD	Developing a new NLP tool for the treatment of breast cancer patients	170,000 USD

(c) Other grants

Years	Granted by Institute/Company	<i>Names of all grantees Investigator (Principal, other)</i>	Subject	Total Amount
Accepted 2018-2019	2ARC	PI- Royi Barnea, PhD- initiating and writing proposal Prof. Yossi Weiss, PhD	Optimizing operating rooms activity in Assuta Medical Centers	15,000 USD

- **Present academic activities.**
- Leading ten research projects in the field of Health Policy and Health Services.
- **Additional information**
- Performing research, applying for research grants and guiding seven BA students from Ben-Gurion University (Health Sciences Faculty) during the finals project.

- Active member of the Assuta's scientific committee as well as the local IRB committee.