

## **Curriculum Vitae**

### **Present status**

**Professor and director of Psychobiology Laboratory**, School of Behavioral Sciences, Tel Aviv-Yaffo College, Israel.

**Adjunct Professor**, (1) Dept. of Clinical Biochemistry and Pharmacology, Ben-Gurion University of the Negev; (2) Dept. of Pharmacy Practice and Pharmaceutical Science, College of Pharmacy, University of Minnesota.

### **Education**

- Ph.D.** (2001) Faculty of **Health Sciences**, Ben Gurion University of the Negev, Beersheba, Israel.
- M.Sc. Biomed. and Behav. Sci.** (1995) Department of **Neuroscience and Behavioral Sciences**, McMaster University, Hamilton, Ontario, Canada.
- M.Sc. in Zoology** (1991) Department of **Zoology**, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv, Israel.
- B.Sc. in Biology** (1989) Faculty of **Life Sciences**, Tel-Aviv University, Tel-Aviv, Israel.
- B.Med.SC.** (1985) Faculty of **Health Sciences**, Hebrew University of Jerusalem Israel.

### **Employment**

- 2014 – Present** Director, Psychobiology Laboratory, Tel Aviv-Yaffo Academic College, Tel-Aviv, Israel.
- 2012 – Present** Professor, School of Behavioral Sciences, Tel Aviv-Yaffo College, Israel. Adjunct Associate Professor, College of Pharmacy, University of Minnesota and Dept. of Clinical Biochemistry and Pharmacology, Ben-Gurion University of the Negev.
- 9-12/ 2015** Invited Professor, Dept. of Neuroscience, Université François-Rabelais de Tours, Tours, France.
- 2011 – 2012** Associate Professor, School of Behavioral Sciences, Tel Aviv-Yaffo College, Israel. Adjunct Associate Professor, College of Pharmacy, University of Minnesota.
- 2008 – 2011** Associate Professor, University of Minnesota, College of Pharmacy.
- 2004 – 2008** Assistant Professor, University of Minnesota, College of Pharmacy.

### **Journal Editing and ad-hoc reviewing**

#### **Editing**

- Frontiers in Psychopharmacology/ Neuropharmacology – Associate Editor
- Behavioural Pharmacology – Editorial Board Member
- Acta Neuropsychiatrica – Editorial Board Member
- International Journal for Neuropsychopharmacology – Guest Field Editor (2010)
- Neuroscience and Biobehavioral Reviews – Guest Editor (2007)
- Research and Reviews in Biosciences – Editorial Board Member
- Frontiers in Behavioral Neuroscience – Review Editor.

#### **Ad-hoc reviewer (51 journals and book publishers)**

Academic Psychiatry; Addiction Biology; Archives of General Psychiatry; Behavioral Brain Research; Behavior Genetics; Behavioral Neuroscience; Behavioural Pharmacology; Biological Psychiatry; Bipolar Disorders; BMC Neuroscience; Brain Research; Brain Research Bulletin; British Journal of Pharmacology; Case Reports and Clinical Practice Review; Chronobiology International; CNS Drugs;

CNS Neuroscience and Therapeutics; Depression and Anxiety; European Archives of Psychiatry and Clinical Neuroscience; European Neuropsychopharmacology; Evidence Based Complimentary and Alternative Medicine; Frontiers in Behavioral Neuroscience; Future Neurology; International Journal of Neuropsychopharmacology; Journal for Psychiatry and Neuroscience; Journal of Basic and Clinical Physiology and Pharmacology; Journal of Experimental Psychology; Journal of Neuroscience; Journal of Psychiatric Research; Journal of Visualized Experiments; Life Sciences; Molecular Psychiatry; Mount Sinai Journal of Medicine; Nature Protocols; Neural Plasticity; Neuropharmacology; Neuropsychopharmacology; Neuroscience; Neuroscience and Biobehavioural Reviews; Neuroscience & Medicine; Neuroscience Letters; Neurotoxicity Research; Pharmacology Biochemistry and Behavior; Physiology and Behavior; PLoS One; Progress in Neurobiology; Progress in Neuro-Psychopharmacology and Biological Psychiatry; Psychiatry Research; Psychopharmacology; Springer (Japan); World Journal of Biological Psychiatry.

### **Grants and awards ad-hoc Reviewer**

- USA Israel Binational Science Foundation (BSF), the Rahamimof Travel Award, Neurobiology Panel member.
- NWO Research Council, The Netherlands.
- Science Foundation Ireland, Physiology, Medicine and Biomedical Sciences Panel.
- National Science Center, Poland.
- Wellcome Trust, UK.
- National Editorial Board for the Proceedings of the National Conferences on Undergraduate Research, USA.
- Canada Foundation for Innovation's Research Hospital Fund.
- The Royal Society Industry Fellowships – UK.
- Catalan Agency for Health Technology Assessment and Research – Spain.
- United States-Israel Bi-national Science Foundation (BSF).
- Israel Science Foundation.
- IBNS Travel Award.
- The National Institute for Psychobiology – Israel.
- FARE Award (NIH).

### **Memberships and Affiliations**

- European College of Neuropsychopharmacology – *fellow member*.
- Israeli Society for Biological Psychiatry – *Member (audit committee member)*.
- International Forum of Psychosis and Bipolarity – *Member*.
- International Behavioral Neuroscience Society – *member (previously member of the Education and Training Committee; previously Chair of Animal Use Committee)*
- World Federation of Societies of Biological Psychiatry – *Member*.

### **Teaching and supervision**

#### Courses

2011-present – (1) Psychophysiology; (2) Psychopharmacology [graduate level course]; (3) Biological basis of psychopathology [graduate level course]; (4) Research seminar.

#### Graduate Students

##### *Graduated*

Two post-doctoral fellows (both with current academic tenure track positions); On Ph.D. student, currently a post-doc; 7 M.A/ M.Sc. Students of whom 5 continued school towards a doctoral degree.

*Current graduate students:*

- Katy Krivisky - (2010-present) Ph.D. Life Sciences Graduate Program, Tel-Aviv University, with Prof. Noga Kronfeld-Schor.
- Nirit Kara - (2011-present) Ph.D. Health Sciences, Ben-Gurion University of the Negev, with Prof. Galila Agam.
- Itamar Ezer – (2014-present) M.A. Health Psychology, Tel Aviv-Yaffo Academic College.
- Gil Shemesh – (2014-present) M.A. Clinical Psychology, Tel Aviv-Yaffo Academic College.

*Undergraduate research (recent years):*

Between 6 and 10 students per year

2015-2016 – Nataly Keren; Andrea Iliia; Rachel Katzman; Noa Carmi; Gali Amit; Hen Navon; Bar Ben Baruch.

2014-2015 – Lior Kadosh; Noa Barak; Tal Ben-Yaakov; Ruth Rinat; Amitay Sofer; Kai Gorodsky; Tom Brandt; Noa Gilon; Roni Kendel.

2013-2014 - Esteryn Nelly; Belder Asaf; Weinberg Hila; Zeid Shahaf; Zeltzer Nicky; Cohen Reut; Gal Michel; Neta Natan.

**Committees and service**

**Local**

- 2014 – Present - Chair, Tel Aviv-Yaffo Academic College Institutional Animal Care and Use Committee.
- 2013 - Present – Tel Aviv-Yaffo Academic College, Academic Council, Member.
- 2013 – Present - Tel Aviv-Yaffo Academic College, Appointments Oversight Committee, Substitute Member.
- 2010 – 2011- University of Minnesota, Admissions Committee, College of Pharmacy, member.
- 2008 - 2011 – University of Minnesota, Scientific Advisory Board, Duluth Medical Research Institute, member.
- 2008-2009 – University of Minnesota, Faculty Consultative Committee, College of Pharmacy, faculty representative (elected).

**National and international**

- 2014 – Present – BSF Rami Rahamimof Travel Grant – neurobiology panel member.
- 2014 – Present – Israeli Society for Biological Psychiatry – Audit Committee, member.
- 2006 - 2009 – International Behavioral Neuroscience Society, Education and Training Committee, member.
- 2007 - 2009 – Chair, International Behavioral Neuroscience Society Animal Use Committee.
- 2003 - 2006 –, Animal Use Committee, International Behavioral Neuroscience Society, Member.

**Publications:** Total 95 including 77 peer reviewed publications and 18 invited papers, book chapters or letters. Total citations to date per Google Scholar: 3466, *h* index - 34, *i10* index – 57.

**Peer Reviewed papers**

1. Ene HM, Kara NZ, Barak N, Reshef Ben-Mordechai T, **Einat H** (2015) Effects of chronic asenapine in a battery of tests for anxiety-like behaviors in mice. *Acta Neuropsychiatrica* 11:1-7.
2. Kara NZ, Flaisher-Grinberg S, **Einat H** (2015) Partial effects of the AMPA/kine CX717 in a strain specific battery of tests for manic-like behavior in black Swiss mice. *Pharmacological Reports* 67: 928-933.
3. Tal-Krivisky K, Kronfeld-Schor N, **Einat H** (2015) Voluntary exercise ameliorates short photoperiod-induced anxiety- and depression-like behaviors in the sand rats' model of seasonal affective disorder. *Physiology and Behavior* 151: 441-447.

4. Kara NZ, Narayanan S, Belmaker RH, **Einat H**, Vaidya VA, Agam G (2015) Chronic lithium treatment enhances the number of quiescent neural progenitors but not the number of DCX-positive immature neurons. *International Journal of Neuropsychopharmacology* 18(7): 1-3.
5. Ene HM, Kara NZ, **Einat H** (2015) Introducing female black Swiss mice: Minimal effects of sex in a strain-specific battery of tests for mania like behavior and response to lithium. *Pharmacology* 95(5-6):224-228.
6. Ene HM, Kara NZ, **Einat H** (2015) The effects of the atypical antipsychotic asenapine in a strain specific battery of tests for mania-like behaviors. *Behavioural Pharmacology* 26(4): 331-337.
7. Ashkenazy-Frolinger T, **Einat H**, Kronfeld-Schor N (2015) Diurnal rodents as an advantageous model for affective disorders: novel data from diurnal Degu (*Octodon Degus*). *Journal of Neural Transmission* 122 Suppl 1:35-45.
8. **Einat H** (2014) New ways of modeling bipolar disorder. *Harvard Review of Psychiatry* 22: 348-52.
9. **Einat H** (2014) Partial effects of the protein kinase C inhibitor chelerythrine in a battery of tests for manic-like behavior in black Swiss mice. *Pharmacological Reports* 66: 722-725.
10. Sade Y, Kara N, Toker L, Bersudsky Y, **Einat H**, Agam G (2014) Beware of your mouse strain: Differential effects of lithium administration on behavioral and neurochemical phenotypes in Harlan ICR mice bred in Israel or the USA. *Pharmacology Biochemistry and Behavior* 124: 36-39.
11. Kara NZ, Karpel O, Toker L, Agam G, Belmaker RH, **Einat H** (2014) Chronic oral carbamazepine treatment elicits mood stabilizing effects in mice. *Acta Neuropsychiatrica*, 26(1):29-34.
12. Toker L, Kara NZ, Hadas I, **Einat H**, Bersudsky Y, Belmaker RH, Agam G (2013) Acute ICV Inositol Does Not Reverse the Effect of Chronic Lithium Treatment in the Forced-Swim Test. *Neuropsychobiology*, 68(3):189-192.
13. Kara NZ, **Einat H** (2013) Rodent models for mania: practical considerations. *Cell & Tissue Research (Special Issue, Rodent Models of Psychiatric Disorders - Practical Considerations)*, 354(1):191-201.
14. Kara NZ, Toker L, Agam G, Anderson GW, Belmaker RH and **Einat H** (2013) Trehalose induced antidepressant-like effects and autophagy enhancement in mice. *Psychopharmacology*, 229(2): 367-75.
15. Krivisky K, **Einat H\***, Kronfeld-Schor N (2012) Effects of morning compared with evening bright light administration to ameliorate short-photoperiod induced depression- and anxiety-like behavior in a diurnal rodent model. *Journal of Neural transmission (Special issue, Depression)*, 119(10): 1241-8. \*Corresponding author.
16. Juetten J, **Einat H** (2012) Behavioral differences in black Swiss mice from separate colonies: implications for modeling domains of mania. *Behavioural Pharmacology*, 23(2): 211-214.
17. Kronfeld-Schor N, **Einat H** (2012) Circadian rhythms and depression: Human Psychopathology and Animal Models. *Neuropharmacology*, 62(1): 101-114 (Special issue, Anxiety & Depression).
18. Koss WA, **Einat H**, Schloesser RJ, Manji HK, Rubinow DR (2012) Estrogen effects on the forced swim test differ in two outbred rat strains. *Physiology & Behavior*, 106:81-86.
19. Flaisher-Grinberg S, **Einat H** (2011) Amphetamine-induced conditioned place preference test and modeling domains of bipolar disorder. *Open Journal of Neuropsychopharmacology*, 4:18-24.
20. Hannah-Poquette C, Anderson G. W, Flaisher-Grinberg S, Wang J. Meinerding T.M, **Einat H** (2011) Modeling mania: Modeling mania: further validation for Black Swiss mice as model animals. *Behavioural Brain Research*, 223(1): 222-226.
21. Krivisky K, Ashkenazy T, Kronfeld-Schor N, **Einat H** (2011) Antidepressants reverse short photoperiod-induced depression-like behavior in the diurnal fat sand rat: further support for the utilization of diurnal rodents for modeling affective disorders. *Neuropsychobiology*, 63: 191-196
22. Flaisher-Grinberg S, Gampetro DR, Kronfeld-Schor N, **Einat H** (2011) Inconsistent effects of photoperiod manipulations in tests for affective-like changes in mice: implications for the selection of appropriate model animals. *Behavioural Pharmacology*, 22(1): 23-30.
23. Wang J, Flaisher-Grinberg S, Li S, Liu H, Sun L, Zhou Y, **Einat H** (2010) Antidepressant-like effects of the active acidic polysaccharide portion of ginseng in mice. *Journal of Ethnopharmacology*, 132: 65-69.

24. Flaisher-Grinberg S & **Einat H** (2010) Strain-specific battery of tests for separate behavioral domains of mania. *Frontiers in Psychiatry*, 1(10):1-10.
25. Ashkenazy-Frolinger T, Kronfeld-Schor N, Jeutten J, **Einat H** (2010) It is darkness and not light: depression-like behaviors of diurnal unstriped Nile grass rats maintained on a short daylight schedule. *Journal of Neuroscience Methods*, 186: 165-170.
26. Flaisher-Grinberg S, Kronfeld-Schor N, **Einat H** (2010) Models of mania: from facets to domains and from animal models to model animals. *Journal of Psychopharmacology*, 24(3):437-438.
27. Flaisher-Grinberg S & **Einat H** (2009) A possible utilization of the mice forced swim test for modeling manic-like increase in vigor and goal-directed behavior. *Journal of Pharmacological and Toxicological Methods*;59:141-145.
28. Ashkenazy T, **Einat H**, Kronfeld-Schor N (2009) Effects of bright light treatment on depression- and anxiety-like behaviors of diurnal rodents maintained on a short daylight schedule. *Behavioural Brain Research*; 201: 343-34.
29. Flaisher-Grinberg S, Overgaard S, **Einat H** (2009) Sweet solution preference modeling the reward seeking domain of mania: face and predictive validity. *Journal of Neuroscience Methods*. 177(1): 44-50.
30. Ashkenazy T, **Einat H**, Kronfeld-Schor N (2009) We are in the dark here: induction of depression- and anxiety-like behaviors in the diurnal fat sand rat, by short daylight or melatonin injections. *Int. J. Neuropsychopharmacol.* 12(1) 83-93.
31. George A & **Einat H** (2008) Positive attitude change towards psychiatry treatment and patients following an active learning, advanced course in psychopharmacology. *Academic Psychiatry*. 32,(6) 515-517.
32. Lien R, Flaisher-Grinberg S, Cleary C, Hejny M, **Einat H** (2008) Behavioral effects of Bcl-2 deficiency: implications for affective disorders. *Pharmacological Reports* 60:490-498.
33. Cleary C, Linde J.A.S, Hiscock K.M, Hadas I, Belmaker R.H, Agam G, Flaisher-Grinberg S, **Einat, H** (2008) Antidepressive-like effects of rapamycin in animal models: implications for new targets for treatment of affective disorders. *Brain Research Bulletin* 76:469-473.
34. Whirley BK & **Einat H** (2008) Taurine trials in animal models offer no support for anxiolytic, antidepressant or stimulant effects. *Israel J of Psychiatry (special issue on Alternative and complementary treatments in psychiatry)* 45(1): 11-18.
35. **Einat H**, Tian F, Belmaker RH, Frost JW (2008) *myo*-Inositol-1-phosphate (MIP) synthase inhibition: in-vivo study in rats. *Journal of Neural Transmission* 115(1): 55-58.
36. Hiscock KM, Linde JA, **Einat H** (2007) Black Swiss mice as a new animal model for mania: a preliminary study. *Journal of Medical and Biological Sciences* 1(2): 1-6.
37. Iancu J, Bodner E, Sarel A, **Einat H** (2007) Changes in mental health policy and their influence on self-injurious behaviors in the Israeli military prison system. *The Canadian Journal of Psychiatry* 52:591-597.
38. Bodner E, Iulian I, Sarel A, **Einat H** (2007) Efforts to Support Special-Needs Soldiers Serving in the Israeli Defense Forces . *Psychiatric Services* 58(11): 1-3.
39. **Einat H**, Yuan PX, Szabo ST, Dogra S, Manji HK (2007) Protein Kinase C inhibition by Tamoxifen antagonizes manic-like behavior in rats: implications for the development of novel therapeutics for Bipolar Disorder. *Neuropsychobiology*: 55: 123-131.
40. **Einat H** (2007) Different behaviors and different strains: potential new ways to model bipolar disorder. *Neuroscience and Biobehavioural Reviews*. 31 (6): 850-857 (Special issue, animal models in psychiatry).
41. Gould TG, **Einat H**, O'Donnell KC, Picchini AM, Schloesser RJ, & Manji HK (2007) Beta-catenin over-expression in the mouse brain phenocopies lithium-sensitive behaviors. *Neuropsychopharmacology*. 32 (10): 2173-2183.
42. **Einat H** (2007) Establishment of a battery of simple models for facets of bipolar disorder: a practical approach to achieve increased validity, better screening and possible insights into endophenotypes of disease. *Behavior Genetics* 37(1): 244-255.
43. **Einat H** (2007) Chronic oral administration of ginseng extract results in behavioral change but has no effects in mice models of affective and anxiety disorders. *Phytotherapy Research* 21(1:) 62-66.

44. **Einat H** (2006) Modeling facets of mania – new directions related to the notion of endophenotypes. *Journal of Psychopharmacology*, 20(5): 714-722.
45. **Einat H** & Manji HK (2006) Cellular plasticity cascades: gene to behavior pathways in animal models of bipolar disorder. *Biological Psychiatry*, 59(12):1160-1171.
46. **Einat H**, Eilam D, Kronfeld-Schor N (2006) Sand rats see the light: Short photoperiod induces a depression-like response in a diurnal rodent. *Behavioral Brain Research*, 173:153-157.
47. **Einat H**, Yuan PX, Manji KH (2005) Anxiety-like behaviors and reduced mitochondrial Bcl-2 levels in mice with targeted mutation of the Bcl-2 gene: further support for the involvement of mitochondrial function in anxiety disorders. *Behavioral Brain Research* 165: 172-180 .
48. Toso L, Poggi S, Park J, **Einat H**, Roberson R, Dunlap V, Woodard J, Abebe D, Spong CY (2005) Inflammatory-mediated Model of Cerebral Palsy with Developmental Sequelae *American Journal of Obstetrics and Gynecology* 193: 933-941.
49. Shaldubina A, **Einat H**, Bersudsky Y, Belmaker RH (2005) epi-Inositol is Ineffective in Porsolt Forced Swim Test of Depression. *Neuropsychiatric Disease and Treatment* 1:189-190.
50. \*Gould TD, \***Einat H**, Bhat R, Manji KH (2004). AR-A014418, a selective GSK-3 inhibitor, produces antidepressant-like effects in the forced swim test. *Int. Journal of Neuropsychopharmacology* 7:1-4. \*Equal contribution.
51. **Einat H**, Chen G, Manji KH (2004) Possible involvement of protein kinase C (PKC) in bipolar disorder and its treatment. *Harefuah (Hebrew)* 143(6) 420-425.
52. Du J, Gray NA, Falke CA, Chen W, Yuan PX, Szabo ST, **Einat H**, Manji HK. (2004) Structurally dissimilar anti-manic agents modulate synaptic plasticity by regulating AMPA glutamate receptor subunit GluR1 synaptic expression. *Journal of Neuroscience* 24(29) 6578-6589..
53. **Einat H**, Yuan PX, Gould TD, Li J, Du J, Manji HK, Chen G. (2003) The role of the extracellular signal-regulated kinase signaling pathway in mood-modulation. *Journal of Neuroscience* 23 (19) 7311-7316.
54. **Einat H**, Belmaker RH, Zangen A, Overstreet DH, Yadid G (2002) Chronic inositol treatment reduces depression-like immobility of Flinders Sensitive Line in the forced swim test. *Depression and Anxiety* 15(3) 148-151.
55. Shaldubina A, **Einat H**, Shimon H, Szechtman H, Belmaker RH (2002) Preliminary evaluation of oral anticonvulsant treatment in the quinpirole model of bipolar disorder. *Journal of Neural Transmission* 109: 433-440.
56. **Einat H** (2002) Smoking in bipolar and schizophrenic patients. *Journal of Clinical Psychiatry* 63(4) 369 .
57. **Einat H**, Clenet F, Shaldubina A, Belmaker RH, Bourin M (2001) The antidepressant activity of inositol in the forced swim test involves 5-HT<sub>2</sub> receptors. *Behavioral Brain Research* 118(1) 77-83.
58. Shaldubina A, Kabtzn A, Belmaker RH, **Einat H**, Grisaru N (2001) Transcranial magnetic stimulation in an amphetamine hyperactivity model of mania. *Bipolar Disorders* 3(1) 30-34.
59. Itkin O, Nemets B, **Einat H** (2001) Smoking habits in bipolar and schizophrenic outpatients in southern Israel. *Journal of Clinical Psychiatry* 62: 269-272.
60. **Einat H** & Belmaker RH (2001) The effects of inositol treatment in animal models of psychiatric disorders. *Journal of Affective Disorders* 62(1-2): 113-121.
61. **Einat H**, Shaldubina A, Belmaker RH (2000) epi-Inositol: a potential antidepressant. *Drug Development Research* 50: 309-315.
62. Kofman O, **Einat H**, Cohen H, Tenne H, Shoshana C (2000) The anxiolytic effect of chronic inositol depends on the baseline level of anxiety. *Journal of Neural Transmission* 107(2): 241-253.
63. Wolfson M, **Einat H**, Bersudski Y, Berkin V, Belmaker RH, Hertz L (2000) Nordidemnin potently inhibits inositol uptake in cultured astrocytes and dose-dependently augments lithium's proconvulsant effect in vivo. *Neuroscience* 60: 116-121.
64. Einat T & **Einat H**, (2000) Inmate argot as an expression of prison subculture: the Israeli case. *The Prison Journal* 80(3): 309-315.
65. Bersudsky Y, **Einat H**, Stahl Z, Belmaker RH (1999) epi-Inositol and inositol depletion: two new treatment approaches in affective disorders. *Current Psychiatry Reports* 1(2): 141-147.

66. **Einat H**, Karbovski H, Korik J, Tsalah D, Belmaker RH (1999) Inositol reduces depressive-like behaviors in two different animal models of depression. *Psychopharmacology* 144(2): 158-162.
67. **Einat H**, Belmaker RH, Kopilov M, Klein E, Gozawi H, Ben-Shachar D (1999) Monoamine levels after acute and chronic myo-inositol treatment. *European Neuropsychopharmacology* 10: 27-30.
68. **Einat H**, Kofman O, Itkin O, Lewitan RJ, Belmaker RH (1998) Augmentation of lithium's behavioral effect by inositol uptake inhibitors. *Journal of Neural Transmission* 105:31-38.
69. **Einat H**, Levine J, Grauer E, MacDonald K, Belmaker RH, (1998) Effects of inositol treatment on the behavior of Rhesus monkeys: preliminary results. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 22:999-1005.
70. **Einat H**, Elkabaz-Swartz Z, Cohen H, Kofman O, Belmaker RH, (1998) Chronic myo- and epi-inositol are anxiolytic in the plus-maze model in rats. *International Journal of Neuropsychopharmacology* 1 (1): 31-34.
71. Sullivan RM, Talangbayan H, **Einat H**, Szechtman H (1998) Effects of quinpirole on central dopamine system in sensitized and nonsensitized rats. *Neuroscience* 83 (3): 781-789.
72. Golani I, **Einat H**, Tchernichovski O, Teitelbaum P, (1997) Keeping the body straight in the unconstrained locomotion of normal and dopamine stimulant treated rats. *Journal of Motor Behavior* 29 (2): 99-112.
73. **Einat H**, Einat D, Allan M, Talangbayan H, Tsafnat T, and Szechtman H, (1996) Associational and nonassociational mechanisms in locomotor sensitization to the dopamine agonist quinpirole. *Psychopharmacology*, 127:95-101.
74. **Einat H** & Szechtman H, (1995) Perseveration without hyperlocomotion in a spontaneous alternation task, in rats sensitized to the dopamine agonist quinpirole. *Physiology and Behavior*, 57: 55-59.
75. Szechtman H, Dai H, Mustafa S, **Einat H**, Sullivan R, (1994) Effect of dose and interdose interval on locomotor sensitization to the dopamine agonist quinpirole. *Pharmacology Biochemistry and Behavior* 48: 921-928.
76. **Einat H**, & Szechtman H, (1993) Environmental modulation of both locomotor response and locomotor sensitization to the dopamine agonist quinpirole. *Behavioural Pharmacology*, 4: 399-404.
77. **Einat H**, & Szechtman H, (1993) Longlasting consequences of chronic treatment with the dopamine agonist quinpirole for the undrugged behavior of rats. *Behavioural Brain Research*, 54: 35-41.

#### **Book Chapters, letters, invited reviews and commentaries**

1. Kara NZ, **Einat H** (2014) Targeted mutation based models for bipolar disorder: availability, advantages and limitations. In: Crusio W, Sluyter F and Pietropaolo S (editors) "*Handbook of Behavioral Genetics of the Mouse*". Cambridge University Press, Cambridge, UK.
2. **Einat H**, Belmaker RH, Anderson GW (2010) Response to "mTOR-Dependent Synapse Formation Underlies the Rapid Antidepressant Effects of NMDA Antagonists". *Science e-letters*, <http://www.sciencemag.org.libpdb.d.umn.edu:2048/content/329/5994/959/reply#content-block>.
3. **Einat H** (2010) Strategies for the development of animal models for bipolar disorder: new opportunities and new challenges. In: Zarate C, Manji H (eds) *Behavioral Neurobiology of Bipolar Disorder and its Treatment. Current Topics in Behavioral Neuroscience Vol 5*, Springer, Berlin. PP. 69-88.
4. **Einat H** & Kronfeld-Schor N (2009) Utilizing diurnal model animals in the study of depression. *Frontiers in Neuroscience*, 3(2): 242-243.
5. Flaisher-Grinberg S & **Einat H** (2009). Mice models for the manic pole of bipolar disorder. In: Gould TD: *Mood and anxiety related phenotypes in mice*. Springer Press, Berlin. pp. 297-326.
6. Large CH, **Einat H**, Mahableshwarkar AR (2008). Developing therapeutics for bipolar disorder: From animal models to the clinic. In: McArthur RA & Borsini F: *Animal and translational models for CNS drug discovery*. Volume 1, Elsevier, Amsterdam. pp 263-300.

7. Bodner E & **Einat H** (2008) Efforts to Support Special-Needs Soldiers Serving in the Israeli Defense Forces: Drs Bodner and Einat reply. *Psychiatric Services* 59(3): 329-330.
8. \*Gould TD & \***Einat H** (2007) Animal models for bipolar disorder and mood stabilizer efficacy: a critical need for improvement. *Neuroscience and Biobehavioral Reviews*; Editorial; 31 (6): 825-831.
9. **Einat H**, Shaldubina A, Bersudsky Y, Belmaker RH (2007) Prospects for the Development of Animal Models for the Study of Bipolar Disorder. In: Soares J, Young A: Bipolar disorders: Basic Mechanisms and Therapeutic Implications – 2<sup>nd</sup> Edition. Taylor & Francis, NYC. pp 19-31.
10. Gould TD, Picchini AM, **Einat H**, Manji HK (2006) Targeting Glycogen Synthase Kinase-3 in the CNS: implications for the development of new treatments for mood disorders. *Current Drug targets* 7: 1399-1409.
11. Nuechterlein K, Robbins T, **Einat H** (2005) Distinguishing Separable Domains of Cognition in Human and Animal Studies: What Separations are Optimal for Targeting Interventions? *Schizophrenia Bulletin* 31(4): 870-874.
12. **Einat H**, Manji HK, Gould TD, Du J, Chen G (2003) Possible involvement of the ERK Signaling Cascade in bipolar disorder: behavioral leads from the study of mutant mice. *Drug News & Perspectives* 16(7): 453-463.
13. **Einat H**, Belmaker RH, Manji HK (2003) New approaches to modeling bipolar disorder – from face to construct validity. *Psychopharmacology Bulletin* 37(1): 47-63.
14. **Einat H** (2003) The pharmacology of attention deficit (hyperactivity) disorders. In: Einat A. *Parents facing the barrier of dyslexia*. Hakkibutz Hameuchad Publishing House, Tel-Aviv. pp 225-228 (Hebrew).
15. **Einat H** & Belmaker RH (2001) Animal models of psychiatric disorders: possibilities, limitations, examples and demonstration of use, Review, *Harefuah (Hebrew)* 140(6) 458-463.
16. **Einat H** & Belmaker RH (2001) Mechanisms of inositol effects on behavior. In: Myoshi et al., (eds) Contemporary Neuropsychiatry: *Proceedings of the Third International Congress of Neuropsychiatry*. Springer-Verlag, Tokyo, Japan. pp. 252-256.
17. **Einat H**, Kofman O, Belmaker RH. (2000) Animal models of bipolar disorder: from a single episode to progressive cycling models. In: M Myslobodsky & I Weiner (eds) *Contemporary Issues in Modeling Psychopathology*. Kluwer Academic Publishers, London. pp. 165-179.
18. Belmaker RH, **Einat H**, Levkovitz Y, Segal M, Grisaru N (2000) TMS effects in animal models of depression and mania: implications of hippocampal electrophysiology. In: George MS and Belmaker RH (Eds.) *Transcranial magnetic stimulation (TMS) in neuropsychiatry*. APA press pp. 99-114.

**Recent Abstracts, Invited lectures and Presentations (last 5 years)**

- Ezer H, Belzung C, **Einat H** (March 2016) **Symposium lecture**: Individual variability in mice' response to lithium: a hurdle or an advantage? Annual meeting of the Israeli Society for Biological Psychiatry, Hagoshrim, Israel.
- **Einat H** (Dec 2015) **Invited seminar lecture**: Circadian rhythms and affective disorders – from the clinic to animal models. Department of child and adolescent psychiatry seminar, Hopital Universitaire Pitie-Salpetriere, Paris, France.
- **Einat H** (Dec 2015) **Invited seminar lecture**: Circadian rhythms and affective disorders – from the clinic to animal models. Department of Neuroscience and INSERM unit 9, Université François-Rabelais, Tours, France.
- **Einat H** and Belzung C (Sept 2015) **Brainstorming session**: Individual variability in mice' response to drugs: a hurdle or an advantage? European College of Neuropsychopharmacology Annual Meeting, Amsterdam, the Netherlands.
- **Einat H** and Kara NZ (May 2015) **Invited plenary lecture**: Exploration of individual variability in animal models of bipolar disorder and its treatment, International Congress on Neurobiology, and Psychopharmacology ICNP Agios Nicolous, Crete, Greece.



- **Einat H**, (May 2015) **Symposium Chair**: Uncharted Issues in the Management of Bipolar Disorder. International Congress on Neurobiology, and Psychopharmacology, ICNP, Agios Nicolous, Crete, Greece.
- Ene HM, Kara NZ, **Einat H** (May 2015) **Poster**: The effects of the atypical antipsychotic asenapine in a strain specific battery of tests for mania-like behavior, International Congress on Neurobiology, and Psychopharmacology, ICNP, Agios Nicolous, Crete, Greece.
- Ene HM, Kara NZ, **Einat H** (May 2015) **Poster Award**: Introducing female black Swiss mice: minimal effects of sex in a strain- specific battery of tests for mania-like behavior and response to lithium, , International Congress on Neurobiology, and Psychopharmacology, ICNP, Agios Nicolous, Crete, Greece.
- Kara NZ, Flaisher-Grinberg S, **Einat H** (May 2015) **Poster**: Partial effects of the ampakine CX717 in a strain specific battery of tests for manic-like behavior in Black Swiss mice, International Congress on Neurobiology, and Psychopharmacology, ICNP, Agios Nicolous, Crete, Greece.
- Kara NZ, Narayan S, Belmaker RH, Vaidya VA, Agam G, **Einat H** (May 2015) **Poster**: Chronic lithium treatment enhances the number of quiescent neural progenitors but not the number of DCX-positive immature neurons, International Congress on Neurobiology, and Psychopharmacology, ICNP, Agios Nicolous, Crete, Greece.
- **H. Einat** and NZ Kara (April 2015) **Invited symposium lecture**: Exploration of individual variability in animal models of bipolar disorder and its treatment. International Review of Psychosis and Bipolarity, Lisbon, Portugal.
- **Einat H**, Kara NZ, Zitron N, Agam G, Anderson GW (March 2015): **Symposium lecture**: Behavioral outcomes of chronic and intermittent administration of ketamine in mice – possible relationship with autophagy. Israeli Society for Biological Psychiatry Annual Meeting, Hagoshrim, Israel.
- **Einat H** (September 2014) **Symposium lecture**. From molecules to organisms - integration of different approaches to model bipolar disorder. World Congress of Psychiatry, Madrid, Spain.
- **Einat H** (May 2014) **Invited lecture**. Novel approaches to model bipolar disorder. International Review of Psychosis and Bipolarity Meeting. Athens, Greece.
- Kara N, Narayan S, Vaidya VA, Belmaker RH, Agam G, **Einat H** (March 2014) **Poster**: Neurogenesis is not required for lithium's mood stabilizing-like effects. Israeli Society for Biological Psychiatry Annual Meeting, Hagoshrim, Israel. *Selected as one of the 10 top poster presentations.*
- Zitron N, Kara NZ, **Einat H** (March 2014) **Poster**: Possible effects of chronic ketamine on affective-like behavior in mice. Israeli Society for Biological Psychiatry Annual Meeting, Hagoshrim, Israel
- **Einat H** (October 2013) Invited oral presentation, Development of animal models for bipolar disorders. Targeted Bipolar Disorders Network Meeting, European College of Neuropsychopharmacology Annual Meeting, Barcelona, Spain.
- **Einat H** (June 2013) **Oral Presentation**, Trehalose induced antidepressant-like effects and autophagy enhancement in mice. International Behavioral Neuroscience Society Annual Meeting, Malahide, Ireland.
- **Einat H** (May 2013) **Plenary Lecture**, Mitochondrial function and autophagy – new avenues in the research of bipolar disorder and its treatment. International Congress of Neurobiology, Psychopharmacology and Treatment Guidance, Thessaloniki, Greece.
- **Einat H** (March 2013) **Symposium lecture**, Identifying novel targets for mood stabilizers using animal models. Annual Meeting of the Israeli Society of Biological Psychiatry, Hagoshrim, Israel.
- **Einat H** (Oct 2012) **Brain Storming Symposium presenter and discussant**, integration of different animal models and tests batteries including strain comparisons and model species to identify novel drug targets. In Brain Storming Session: Identification of novel pharmacological targets for mood stabilizers: inference from the mechanisms of action of available drugs and from animal models. European College of Neuropsychopharmacology Annual Meeting, Vienna, Austria.

- **Einat H** (Oct 2012) **Invited lecture**, Modeling Mania and Understanding Mood Stabilizers Efficacy Bipolar disorder. Millennium Notes from Cappadocia Experts Meeting, Cappadocia, Turkey.
- **Einat H** (March 2012) **Symposium Chair**, Cellular plasticity in the treatment of affective disorders: new perspectives and possible targets, Annual Meeting of the Israeli Society of Biological Psychiatry, Hagoshrim, Israel.
- **Einat H** (March 2012) **Symposium Speaker**, Autophagy enhancement: a possible new drug target for affective disorders, Annual Meeting of the Israeli Society of Biological Psychiatry, Hagoshrim, Israel.
- **Einat H** (March 2012) **Invited symposium speaker**, Animal models for affective disorders: Is there anything new to say? Ben-Gurion University of the Negev, Zlotowsky Center of Neuroscience Annual Retreat, Sde-Boker, Israel.
- **Einat H** and Anderson GW (June 2011) **Oral Presentation**, Autophagy enhancement: a possible new drug target for affective disorders. International Behavioral Neuroscience Society Annual Meeting, Steamboat Springs, CO.
- **Einat H** (August 2010) **Symposium Lecture**, Translating molecular circadian findings into animal behavior. European College of Neuropsychopharmacology Annual Meeting, Amsterdam, The Netherlands.
- **Einat H** (June 2010) **Oral Presentation**: Combining strategies to develop better animal models for bipolar disorder. International Behavioral Neuroscience Society Annual Meeting, Sardinia, Italy.