

CURRICULUM VITAE

1. Personal Details

Prof. Mouna Maroun

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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
1988-1991	University of Haifa, Psychology and English	B.A.	1992
1992-1996	University of Haifa, Psychology	M.A.	1996
1996-1999	University of Haifa, Psychology	Ph.D.	2000

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
1999-2001	CNRS, Laboratory of Neurobiology of Learning, Memory and Communication, Orsay, France Head: Prof. Serge Laroche	Post doctoral	2001
2001-2002	University of Haifa, Department of Psychology Head: Prof. Gal Richter-Levin	Post doctoral	2002

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
2001-2002	The Jordan Valley College, Department of Behavioral Sciences	Lecturer
2002-2003	University of Haifa, Department of Neurobiology and Ethology	Lecturer (proposed rank)
2004-2008	University of Haifa, Department of Neurobiology and Ethology	Lecturer
2008-2013	University of Haifa, Department of Neurobiology and Ethology (Since 2012 called Sagol Department for Neurobiology)	Senior Lecturer (with tenure)
2013- Present	University of Haifa, Sagol Department of Neurobiology	Associate Professor
2010 (September-November)	University of Lyon 1, France	Invited Researcher (see also under prizes and fellowships)
2011 (September-November)	University Bordeaux 2, France	Invited Researcher (see also under prizes and fellowships)
2012 (September-November)	University Bordeaux 2, France	Invited Researcher (see also under prizes and fellowships)
2013 (September-October)	University Bordeaux 2, France	Invited Researcher (see also under prizes and fellowships)
2014 (September-October)	University Bordeaux 2, France	Invited Researcher
2015 (September-October)	University Bordeaux 2, France	Invited Researcher

4. Offices in University Academic Administration

1. 2007-2008: Substitute for the head of the Research Center for the Study of Psychological Stress.

2. 2007-2008: Member of departmental teaching committee: Department of Neurobiology and Ethology. Department of Neurobiology and Ethology.
3. 2008-2013: Chair of M.Sc. departmental committee
4. 2009-2012: Chair of the Institution Ethical Committee for Animal Experimentation
5. 2010-Current: Chair of the Stress Center
6. 2011-Current: Member of the board of Jewish-Arab Center
7. 2012-Current: Member of the Otto Werner fellowship committee
8. 2012 Member of the Rector and Graduate prize for the best thesis.
9. 2013-Current: Head of Sagol department of Neurobiology
10. 2013: Vice president Committee for improving ordering and purchasing procedures in the University.
11. 2013-2015: Member of the University President for improving Research Authority
12. 2015-Present: Research Track Committee
13. 2015- Ad hoc committee for DIP pre-proposals
14. 2015-2016: Steering committee for the accessibility of the Arab population to the academia

5. Scholarly Positions and Activities outside the University

Participation in Scientific Committees:

1. 2003-2005 Organization Committee of the Annual Meeting of Biological Psychiatry.
2. 2006-2008 Organization Committee of the Annual meeting of Israel Society for Neuroscience.
3. 2009, 2011 Member of the Committee of Binational Science Foundation.
4. 2016: Member of the ISF committee
5. 2016: Chairing the panel in Binational Science Foundation.

6. 2015 to Present: a member of the Almaram association for introducing sciences to Arab schools

Activities outside the University

1. Women in Science, selected among 5 women scientists to promote science studies among girls- EU project
2. Annual participation in the brain awareness days in Arab cities (Shfaram, Mghar and Tamra)
3. Presidential committee selection for presentations to be selected for President Peres committee (June 2013).
4. Among pioneer research women to encourage pupils to study sciences.
5. Current- member of the ALMARAM non-profit association for promoting science education in Arab schools
6. Annual participation in the brain awareness days in Arab cities (Shfaram, Mghar and Tamra) and jewish cities (Benyamina)
7. Current – Member of the committee of Arab Excellence Initiative by Yad Hanadiv and Rotschild Foundations.
8. Current-Lectures in Arab schools on brain sciences (Kfar Cana, Arabeh, Cheick Danoun; Sachnine)
9. 2015, 2016, Another different lesson- series of lectures in under-privileged Arab schools (Shizaf, Almoutanabi)
10. 2016: Lectures in Arab cities on the brain to increase awareness to the barin
11. 2016: Special guest in the Exhibition for Sciences in arab schools- Ministry of Education
12. 2016- Café on the bar- How to succeed as an arab in the Israeli academia- Arab Woman in Sciences and Engineering

2016- Special guest in Arab Women Researchers

2016- Co organizer of social event in Society for Neuroscience in San Diego of Neuroscientists from the Middle East.

6. Scholarships, Awards and Prizes

Scholarships:

- 1) The “Chateaubriand” French Government Postdoctoral Fellowship (2000-2001)
- 2) The National Institute of Psychobiology Postdoctoral Fellowship for outstanding young researchers (2001-2002).

- 3) The “Maof” fellowship of the Israeli Council for Higher Education for excellent minorities’ young scientist (2003).
- 4) Fellowship from the French Embassy in Israel (2010)

Miscellaneous

Selected among the 50 most influential women in Israel for 2013 (Lady Globes magazine).

Selected among the 50 most strong women in Israel for 2014 (Forbes magazine).

PUBLICATIONS

1. Leshem, M., **Maroun, M.** and Del Canho, S. (1996) Sodium depletion and maternal separation in the suckling rat increases its salt intake when adult. **Physiology and Behavior**, **59(1)**: 199-204.
2. Leshem M., **Maroun, M.**, and Weintraub, Z.(1998) Neonatal Diuretic therapy may not alter children’s preference for salt taste. **Appetite**, 30:53-64.
3. Rosenblum, K., **Maroun, M.**, and Richter-Levin, G. (1999). Frequency-dependent inhibition in the dentate gyrus is attenuated by the NMDA receptor blocker MK-801 at doses, which do not yet affect long-term potentiation. **Hippocampus**, 9: 491-494.
4. Stewart, M. G., Harrison, E., Rusakov, D. A., Richter-Levin, G. and **Maroun, M.** (2000). Re-structuring of synapses 24 hours after induction of long-term potentiation in the dentate gyrus of the rat hippocampus in vivo. **Neuroscience**, 100(2):221-7.
5. French, P. J., O’Connor, V., Jones, M., Davis, S., Errington, M., Voss, K., Truchet, B., Wotjak, C., Stean, T., Doyere, V., **Maroun, M.**, Laroche, S. and Bliss, T. V. P. (2001). Subfield-specific immediate early gene expression associated with hippocampal long-term potentiation in vivo. **European Journal of Neuroscience**, 13 (5): 968-976.
6. **Maroun, M.** and Richter-Levin, G. (2002). Local circuit plasticity in the rat dentate gyrus: characterization and aging-related impairment. **Neuroscience**, 112(4): 1001-7.

7. Genin A, French P, Doyere V, Davis S, Errington ML, **Maroun M**, Stean T, Truchet B, Webber M, Wills T, Richter-Levin G, Sanger G, Hunt SP, Mallet J, Laroche S, Bliss TV, O'Connor V. (2003). LTP but not seizure is associated with up-regulation of AKAP-150. **European Journal of Neuroscience**, 17(2):331-340.
8. **Maroun, M.**, and Richter-Levin, G. (2003): Exposure to acute stress blocks the induction of long-term potentiation in the amygdala-prefrontal cortex pathway in vivo. **The Journal of Neuroscience**, 23(11):4406-9.
9. Akirav, I, Khatsrinov ,V., Vouimba, RM., Ferreira, G., Rosenblum, K., Merhav, M., **Maroun, M.** (2006) Extinction of conditioned taste aversion depends on functional protein synthesis but not on NMDA receptor activation in the ventromedial prefrontal cortex. **Learning and Memory**, 13(3):254-8.
10. Akirav, I, Raizel H., **Maroun, M.** (2006) GABA_A agonist to the infralimbic prefrontal cortex or the basolateral amygdala facilitates extinction of conditioned fear. **European Journal of Neuroscience**, 23(3):758-64.
IF: 3.673. Citations: 71
11. Akirav, I, **Maroun, M.** (2006) Ventromedial prefrontal cortex is obligatory for consolidation and reconsolidation of object recognition memory. **Cerebral Cortex** 16(12):1759-65.
12. **Maroun, M.** (2006) Stress reverses plasticity in the pathway projecting from the ventromedial prefrontal cortex to the basolateral amygdala pathway in vivo. **European Journal of Neuroscience**, 24(10):2917-22.
13. Akirav, I, **Maroun M.**(2007) The role of the medial prefrontal cortex-amygdala circuit in stress effects on the extinction of fear. **Neural Plasticity.**, 30873. Epub 2007 Jan 16 (**Invited Review**).

14. Belolovsky, K., **Maroun, M.** and Rosenblum, K (2007) MAPK activation in the hippocampus in vivo is correlated with experimental setting. **Neurobiology of learning and memory**, 88(1):58-64.
15. Yarom O, **Maroun M**, Richter-Levin G (2008). Exposure to forced swim stress alters local circuit activity and plasticity in the dentate gyrus of the hippocampus. **Neural Plast.** 2008:194097
16. **Maroun, M.**, and Akirav, I. (2008) Arousal and Stress Effects on Consolidation and Reconsolidation of Recognition Memory. **Neuropsychopharmacology**, 33(2):394-405.
17. Hikind, N., and **Maroun, M** (2008) Microinfusion of the D1 receptor antagonist, SCH23390 into the IL but not the BLA impairs consolidation of extinction of auditory fear conditioning. **Neurobiology of Learning and Memory**. 90(1):217-22
18. Cohen, Y., Reuveni, I., Baraki, E., and **Maroun, M. (2008)**. Olfactory learning-induced long lasting enhancement of descending and ascending synaptic transmission to the piriform cortex. **The Journal of Neuroscience**. 28: 6664-6669.
19. **Maroun, M**, and Akirav, I. (2009) Differential involvement of dopamine D1 receptor and MEK signaling pathway in the ventromedial prefrontal cortex in consolidation and reconsolidation of recognition memory. **Learn Mem**. 24;16(4):243-7.
20. Akirav I, Segev A, Motanis H, and **Maroun M** (2009) D-cycloserine into the BLA reverses the impairing effects of exposure to stress on the extinction of contextual fear, but not conditioned taste aversion.**Learn Mem**. **16(11):682-6**.
21. Motanis H, **Maroun, M.** (2010). Exposure to a novel context following contextual fear conditioning enhances the induction of hippocampal long-term potentiation. *Eur J Neurosci*. PMID: 20649905.

22. Richter-Levin, G. and **Maroun, M.** (2010). Stress and amygdala suppression of metaplasticity in the medial prefrontal cortex. *Cerebral Cortex*.
23. Motanis H, **Maroun M.** (2011). Differential involvement of protein synthesis and actin rearrangement in the reacquisition of contextual fear conditioning. *Hippocampus*. 2011 Jan 14.
24. Vouimba RM, **Maroun, M.** (2011). Learning-induced changes in mPFC-BLA connections after fear conditioning, extinction and reinstatement of fear. *Neuropsychopharmacology*. 2011 Oct;36(11):2276-85.
25. Cohen, Y. Avramoav, S., Barkai, E., **Maroun, M.** (2011). Olfactory learning-induced enhancement of the predisposition of LTP induction. **Learning and Memory**. 25;18(9):594-7.
26. **Maroun M,** Kavushansky A, Holmes A, Wellman C, Motanis H (2012). Enhanced extinction of aversive memories by high-frequency stimulation of the rat infralimbic cortex. **PLoS One**. 2012;7(5):e35853.
27. Kritman M, **Maroun M.** (2012) Inhibition of the PI3 kinase cascade in corticolimbic circuit: temporal and differential effects on contextual fear and extinction. **International Journal of Neuropsychopharmacology**. 18:1-9.
28. **Maroun, M** (2012). Multiple role of prefrontal cortex in fear and extinction. **The Neuroscientist**. 2012 Oct 22. [Epub ahead of print] PMID:23090707. Review.
29. Akirav, I, **Maroun, M** (2012). Stress Modulation of Reconsolidation. **Psychopharmacology**. Invited review.
30. Shehade, K, **Maroun M.** (2012). Different effects of low frequency stimulation to infra-limbic prefrontal on extinction of fear conditioning and conditioned taste aversion. **Brain Research**. 2012 Oct 19. pii: S0006-8993(12)01672-1.

31. Motanis, M, **Maroun**, M, Baraki, E\$ (2012). Learning-induced bidirectional plasticity of intrinsic neuronal excitability reflects the valence of the outcome. **Cerebral Cortex**. 2012 Dec 12. [Epub ahead of print]. PMID: 2323620.
\$ Both authors equally contributed to this work
32. Alexandra Kavushansky, Milli Kritman, **Mouna Maroun**, Ehud Klein, Gal Richter-Levin, Koon-Sea Hui, Dorit Ben-Shachar (2013). β -endorphin degradation and the individual reactivity to traumatic stress. **European Neuropsychopharmacology** (estimated pages 10-14).
33. Slouzkey I, Rosenblum K, **Maroun, M.** (2013). The role of PI3K in erasure of CTA memory. **Neurospchopharmacology**. 38(7):1143-53
34. Lahoud, N, **Maroun, M.** (2013) Different role of oxytocin in extinction of fear. **Psychoneuroendocrinology**. 38(10):2184-95
35. **Maroun, M.** , Ioannides PJ , Bergman KL, #Kavushansky A, Holmes, A. Wellman, CL (2013). Fear Extinction Deficits Following Acute Stress Associate with Increased Spine Density and Dendritic Retraction in Basolateral Amygdala Neurons. **European Journal of Neuroscience**. 38(4)2611-20.
36. Wellman CL1, Camp M, Jones VM, MacPherson KP, Ihne J, Fitzgerald P, **Maroun M**, Drabant E, Bogdan R, Hariri AR, Holmes (2013). Convergent effects of mouse Pet-1 deletion and human PET-1 variation on amygdala fear and threat processing. **Exp Neurol**. 250:260-9.
37. Schmidt MV, Abraham WC, **Maroun M**, Stork O, Richter-Levin G. Stress-induced metaplasticity: from synapses to behavior (2013). **Neuroscience**. 2013 250:112-20. Review.
38. Schayek R, **Maroun M.** (2015). Differences in Stress-Induced Changes in Extinction and Prefrontal Plasticity in Postweanling and Adult Animals. **Biol Psychiatry**. pii: S0006-3223(14)00763-X. doi: 10.1016/j.biopsych

39. Boitard C, **Maroun M**, Tantot F, Cavaroc A, Sauvant J, Marchand A, Layé S, Capuron L, Darnaudery M, Castanon N, Coutureau E, Vouimba RM, Ferreira G. (2015). Juvenile Obesity Enhances Emotional Memory and Amygdala Plasticity through Glucocorticoids. **J Neurosci**. 35(9):4092-103.
40. Awad W, Ferreira G, Maroun M. (2015). Dissociation of the Role of Infralimbic Cortex in Learning and Consolidation of Extinction of Recent and Remote Aversion Memory. **Neuropsychopharmacology**. doi: 10.1038/npp.2015.103.
41. **Maroun, M**, Wagner, S (2015). Oxytocin and memory of emotional stimuli: some dance to remember, some dance to forget. **Biological Psychiatry**. Invited review.
42. Moench KM, **Maroun M**, Kavushansky A, Wellman C. (2015). Alterations in neuronal morphology in infralimbic cortex predict resistance to fear extinction following acute stress. **Neurobiol Stress**. 14;3:23-33. doi: 10.1016/j.ynstr.2015.12.002.
43. Herman JP, **Maroun M**, Richter-Levin G. (2015). Good stress, bad stress and very bad stress. **Stress**. 2015;18(3):267-8. doi: 10.3109/10253890.2015.1087091.
44. Brill-Maoz N, Maroun M. (2016). Extinction of fear is facilitated by social presence: Synergism with prefrontal oxytocin. **Psychoneuroendocrinology**. 9;66:75-81. doi: 10.1016/j.psyneuen.2016.01.003.
45. Slouzkey, I and **Maroun, M (in press)**: PI3-kinase cascade has a differential role in acquisition and extinction of conditioned fear memory in post-weanling and adult rats. **Learning and Memory**
46. Schayek, R and **Maroun, M (in press)**. Dissociation of the effects of stress and D1 receptors on amygdalar LTP in adult and juvenile animals. **Neuropharmacology**.