

Gilly Wolf

## Curriculum vitae and list of publications

### Name: Gilly Wolf

Birth date: 04.02.1974, Jerusalem Israel

Military service: 4.1993-5.1995

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### Education:

B.A. 1996-1999 The Hebrew University Department of Psychology, Department of Sociology and Anthropology

M.A. 1999-2002 (cum laude) The Hebrew University  
Department of Psychology  
Advisor: Prof Raz Yirmiya,  
*"Genetic and developmental impairments in interleukin-1 (IL-1) signaling reduce pain sensitivity in mice"*

Ph.D 2002-2009 The Hebrew University Department of Psychology  
Advisors: Prof Raz Yirmiya and Prof Yehuda Shavit  
*"The involvement of interleukin-1 (IL-1) signaling in pain sensitivity, opiate analgesia, the development of opiate tolerance, stress-induced analgesia, neuropathic pain, and post operative pain: genetic, developmental, and pharmacological experiments in mice"*

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Post Doctorate 2011-2013    The Hebrew University    Alexander Silberman  
 Institute of Life Science, Department of Cellular and Developmental  
 Biology  
 Advisor: Prof Marshall Devor  
*Connectivity of MesoPontine Tegmental Anesthesia Area (MPTA)  
 neurons*

Employment:

2014-            Researcher at Bernard Lerer Biological Psychiatry Laboratory,  
 Hadasah Medical Center

2013-            Teaching at Achva academic collage.

2009            Tutoring Arab students in psychobiology (frontal lessons to a group of  
 first-year students).

2000-2006      Teaching Assistant in Psychobiology (tutoring individual students;  
 writing, and marking end-term exams; guiding new teaching  
 assistants).

1997-2009      Research Assistant in the Brain and Behavior Laboratory (running  
 experiments; collecting and analyzing data; writing grant applications  
 and progress reports; training new research assistants).

1995-1997      Research Assistant in the Karev Fund for education.

1993-1995      Teacher in school for mentally retarded children and in  
 Ulpan for new immigrants in I.D.F service.

Professional Activities:

Positions in Academic Administration:

2002-2009      Administrator of the Committee on Animal Care and Use of the Social  
 Sciences Faculty, The Hebrew University.

Membership in scientific societies:

2000-2006      Israel Society for Neuroscience (ISFN)

2004-2006      Psychoneuroimmunology Research Society (PNIRS)

2010            Israel Society for Pain (IPA)

2014            The Israeli Society for Biological Psychiatry (ISBP)

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Educational activities:

Courses taught:

Psychological Physiology A and B	B.A.	Achva Academic Collage
The Biological Basis of Mental Health	B.A.	Achva Academic Collage
Pain and Analgesia	B.A.	Achva Academic Collage

Awards:

- 2012 Lady Davis post doctoral fellowship (extension; competitive fellowship)
- 2011 Lady Davis post doctoral fellowship (competitive fellowship)
- 2007 Travel award from the Sturman Institute  
Travel award from The National Institute for Psychobiology in Israel.
- 2006 Travel award from The Center for Research on Pain  
Wolf Foundation Scholarship for graduate students (competitive scholarship).
- 2004 Travel award from the Psychoneuroimmunology Research Society (PNIRS; competitive award).

Scientific Publications:

Book chapter:

1. Shavit, Y., **Wolf, G.**, Johnston, IN., Westbrook, RF., Watkins, LR., and Yirmiya R. Proinflammatory cytokines modulate neuropathic pain, opioid analgesia, and opioid tolerance. In: Watkins, LR., DeLeo, J. and Sorkin, L. (Eds.), Immune and Glial Regulation of Pain. International Association for the Study of Pain (IASP) Press, pp 361-383, 2007.

Publications in peer-reviewed journals

1. Shavit, Y., Cohen, E., Gagin, R., Avitzur, R., Pollak, Y., Chaikin, G., **Wolf, G.**, and Yirmiya, R. Effects of prenatal morphine exposure on NK cytotoxicity and responsiveness to LPS in rats. Pharmacology, Biochemistry and Behavior, **59**:835-841, 1998.
2. **Wolf, G.**, Yirmiya, R., Goshen, I., Iverfeldt, K., Holmlund, L., Takeda, K., Shavit, Y. Impairment of interleukin-1 (IL-1) signaling reduces basal pain sensitivity in mice: genetic, pharmacological and developmental aspects. Pain, **104**:471-80, 2003.
3. Shavit, Y., **Wolf, G.**, Goshen, I., Livshits, D., and Yirmiya, R. Interleukin-1 antagonizes morphine analgesia and underlies morphine tolerance. Pain, **115**:50-59, 2005.
4. Shavit, Y., Weidenfeld, J., DeKeyser, FG., Fish, G., **Wolf, G.**, Mayburd, E., Meerson, Y., and Beilin, B. Effects of surgical stress on brain prostaglandin E<sub>2</sub> production and on the pituitary-adrenal axis: Attenuation by preemptive analgesia and by central amygdala lesion. Brain Research, **1047**:10-17, 2005.
5. Shavit, Y., Fish, G., **Wolf, G.**, Mayburd, E., Meerson, Y., Yirmiya, R., and Beilin, B. The effects of perioperative pain management techniques on food consumption and body weight after laparotomy in rats. Anesthesia and Analgesia, **101**:1112-1116, 2005.
6. **Wolf, G.**, Gabay, E., Tal, M., Yirmiya, R., and Shavit, Y. Genetic impairment of interleukin-1 signaling attenuates neuropathic pain, autotomy, and spontaneous ectopic neuronal activity, following nerve injury in mice. Pain, **120**:315-324, 2006.
7. Hurwitz, I., Malkesman, O., Stern, Y., Schroeder, M., Lavi-Avnon, Y., Shayit, M., Shavit, Y., **Wolf, G.**, Yirmiya, R., and Weller, A. Stress and pain responses in rats lacking CCK<sub>1</sub> receptors. Peptides, **27(6)**:1483-1489, 2006.
8. **Wolf, G.**, Yirmiya, R., Kreisel, T., Goshen, I., Weidenfeld J., Poole, S., and Shavit, Y. Interleukin-1 Signaling Modulates Stress-Induced Analgesia. Brain, Behavior, and Immunity, **21(5)**:652-659, 2007.
9. **Wolf, G.**, Livshits, D., Beilin, B., Yirmiya, R., and Shavit, Y. Interleukin-1 signaling is required for induction and maintenance of postoperative incisional

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- pain: Genetic and pharmacological studies in mice. Brain, Behavior, and Immunity, 22:1072-1077, 2008.
10. Kleibeuker, W., Gabay, E., Kavelaars, A., Zijlstra, J., **Wolf, G.**, Ziv, N., Yirmiya, R., Shavit, Y., Tal, M., and Heijnen, CJ. IL-1 $\beta$  signaling is required for mechanical allodynia induced by nerve injury and for the ensuing reduction in spinal cord neuronal GRK2. Brain, Behavior, and Immunity, **22(2)**:200-208, 2008.
11. Gabay, E., **Wolf, G.**, Shavit, Y., Yirmiya, R., and Tal, M. Chronic blockade of interleukin-1 (IL-1) prevents and attenuates neuropathic pain behavior and spontaneous ectopic neuronal activity following nerve injury. Eur J Pain, **15(3)**:242-248, 2011.

Presentation in International Meetings:

- 2007      **Wolf, G.**, Gabay, E., Livshits, D., Beilin, B., Tal, M., Yirmiya, R., Shavit, Y. *Genetic and Pharmacological Blockade of IL-1 Signaling Attenuates Neuropathic and Incisional Pain*. Recent Advances in IL-1 Biology in Manchester, UK. (oral presentation).
- 2006      **Wolf, G.**, Gabay, E., Tal, M., Yirmiya, R., Shavit, Y. *Genetic and pharmacological blockade of interleukin-1 signaling attenuates neuropathic pain and spontaneous discharge following nerve injury*. The PNIRS Annual Meeting in Miami, USA Brain, Behavior, and Immunity, 20, 78 (oral presentation).
- Wolf, G.**, Gabay, E., Livshits, D., Beilin, B., Tal, M., Yirmiya, R., Shavit, Y. *Impaired IL-1 Signaling attenuates Incisional Pain in Mice* EFIC European Pain School in Siena, Italy. (oral presentation).

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- 2004 **Wolf, G.**, Gabay, E., Tal, M., Yirmiya, R., and Shavit, Y.  
*Impairment of Interleukin-1 (IL-1) Signaling Attenuates Neuropathic Pain and Spontaneous Ectopic Neuronal Activity Following Nerve Injury.* The PNIRS Annual Meeting in Titisee, Germany. Neural Plasticity, **12**:63 (poster presentation).

Research Grant:

2005 Israel Foundation Trustees Gilly Wolf *The Involvement of IL-1-Signaling in basal pain sensitivity, opiate analgesia and tolerance, stress-induced analgesia, and neuropathic pain – genetic, developmental, and pharmacological experiments in mice* 2005-2006 3000\$ per annum, 6000\$ in total (Graduate Student Grant).

Present Academic Activities:

Research in progress:

1. Connectivity of MesoPontine Tegmental Anesthesia Area (MPTA) neurons  
 Prof Marshall Devor, Dr Yelena Fishman  
 Expected date for completion – 2015
2. Late-Life Depression  
 Prof Bernard Lerer, Dr Tzuri Lifschytz, Dr Amit Lotan  
 Expected date for completion – 2017

Article to be published:

Fridel, K., **Wolf, G.**, Nasaev, E., Brenner, O., Meilin, S., and Shavit, Y.  
 Morphine Provides Potentiated Anti-Allodinic Effect and Reduces Inflammation Markers in a Mouse Model of Peripheral Inflammation (In Preparation, will be submitted for publication during August 2014).