

Mariana Schroeder

Date and place of birth: 10-6-1976, Buenos Aires, Argentina.

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Education

- May 2015 – current: Project group leader, Max Planck Institute of Psychiatry, Munich (Germany)
- May 2011- May 2015: Post Doctoral Fellow at Weizmann Institute of Science, Department of Neurobiology.
- 2007-2010: PhD in Life Sciences, Bar Ilan University, Israel. Cum laude.
2004-2006: MA in Experimental Psychology, Bar Ilan University, Israel. Suma cum laude.
- 2000-2004: Undergraduate student in Psychology and biology, Bar Ilan University, Israel.

Teaching experience

- 2011: Lecturer: Biological aspects underlying eating disorders and obesity seminar, for BA students.
- 2010: Lecturer: The biology and genetics of eating disorders and obesity, seminar for BA students.
- 2009: Teaching Assistant: The biological aspects of eating disorders and obesity, seminar for M.A. students.

Languages Spanish - Native. Mother language.
English - Full professional proficiency.
Hebrew - Full professional proficiency.
German - High level, spoken and written.

Awards and scholarships

- 2011: Dean of Faculty Postdoctoral Fellowship, Weizmann Institute of Science.
- 2009: International Behavioral Neuroscience Society: Travel award.
- 2007: Developmental Psychobiology: Travel award.
- 2007: The Hennessy-Smotherman Best Student Paper Award (SSIB).
- 2007: The Presidential Fellowship for Outstanding Doctoral Students, Bar Ilan University.
- 2005: Gonda Brain Research Center, Bar Ilan University: Travel award.
- 2004: New investigator award (SSIB).

Invited talks

2014: Institute of Biomedical research (BioBA), partner of the Max Planck society (Argentina).

2014: Department of Psychology, Haifa university (Israel)

2013: Department of Psychology, Haifa university (Israel).

2010: Department of Biology, Hebrew University of Jerusalem (Israel)

2009: Department of Psychology seminar, Bar Ilan University (Israel).

Selected presentations in scientific conferences

2010 The Parental Brain: Neurobiology, Behaviour and the Next Generation conference, Edinburgh, Scotland. **Schroeder, M., Shbiro, L., Moran, T.H. & Weller, A.** Maternal environmental contribution to adult sensitivity and resistance to obesity in Japanese Long Evans rats.

2010 ISFN - Israeli society for Neuroscience. Schroeder, M., Kronfeld-Schor, N. & Weller, A. Postnatal maternal environment programs selective leptin sensitivity and exerts long term behavioral and neuroendocrinological effects in obese OLETF and lean LETO female rats.

2010 SSIB - Society for the Study of Ingestive Behavior. Schroeder, M., Moran T.H. & Weller, A. Long term obesity moderation in OLETF rats by post weaning time-specific food restriction.

2010 IBNS (Nassau, Bahamas). Schroeder M., Blumberg S., Bi S., Moran T.H., Smith G.P. & Weller A. Pre-obese behavioral and neurobiological phenotype in the OLETF rats during the suckling period.

2009 SSIB. Schroeder M., Shbiro L. & Weller A. Voluntary exercise during childhood and adolescence attenuates obesity in adult OLETF rats.

2009 ISFN (Israel). Schroeder M., Sultany T., Kronfeld-Schor N. & Weller A. Prenatal stress has a sex dependent effect on food preference and body composition in a genetic animal model of depression.

2008 SSIB (Paris, France). Schroeder M., Shbiro L, Moran T.H. & Weller A. Gender differences in coping with "lean" and "obese" postnatal environments in a rat model of obesity.

2008 ISDP - International society for Developmental Psychobiology . , Schroeder, M., Shbiro, L, Zagoory-Sharon O, Moran T. H. & Weller A. Towards an animal model of childhood onset obesity: follow up of OLETF rats during pregnancy and lactation.

2008 ISFN (Israel). Schroeder M., Shbiro L, Gelber V. & Weller A. Obesity in adult OLETF rats can be attenuated by voluntary exercise during childhood and adolescence.

2007 SSIB (Colorado, USA). Schroeder, M., Zagoory-Sharon, O., Moran, T.H., Bi, S., & Weller, A. Food restriction from weaning to puberty reduces long term food intake, adipocyte area and obesity in male but not in female OLETF rats.

2007 ISDP (San Diego, USA). Schroeder, M., Shbiro, L., Gelber, V., Moran, T.H., & Weller, A. Gender differences in antiobesity programming achieved by early interventions in OLETF rats.

2006 SSIB (Naples, USA). Schroeder, M., Zagoory-Sharon, O., Moran, T.H., Bi, S., & Weller, A. Pair-feeding studies in young CCK1 spontaneous knockout rats.

2005 SSIB (Pittsburgh, USA). Schroeder, M., Zagoory-Sharon, O., Lavi-Avnon, Y. Weller, A. Maternal and genotype effects on weight gain in nursing rat pups lacking CCKA: "competition" and cross-fostering studies.

2004 SSIB (Cincinnati, USA). Schroeder, M., Malkesman, O., Haba, D., Torregrossa, A-M., Smith, G.P., Weller, A., & Blumberg, S. Effect of exogenous CCK on 9-12 days old rat pups: independent ingestion and c-fos like immunoreactivity in brainstem, hypothalamic nuclei and central nucleus of the amygdala.

Publications

Schroeder, M., Kronfeld-Schor, N. & Weller, A. (2013). Selective leptin insensitivity and alterations in female-reproductive patterns linked to hyperleptinemia during infancy, *PLoS One*, 8(3):e59937.

Marco, A., Schroeder, M. & Weller, A. (2012). Feeding and reward: Ontogenetic changes in an animal model of obesity, *Neuropharmacology*, 62(8):2447-54.

Schroeder, M., Sultany, T. & Weller, A. (2012). Prenatal Stress Effects on Emotion Regulation differ by Genotype and Sex in Prepubertal Rats. *Developmental Psychobiology*, doi:10.1002/dev.21010.

Schroeder, M., Shbiro, L. & Weller, A. (2011). Enriched environment moderates obesity in genetically hyperphagic OLETF rats in a sex dependent manner, *ILAR*, 52(e39-e45).

Schroeder, M., Shbiro, L., Moran, T.H. & Weller, A. (2010). Maternal Environmental Contribution to adult Sensitivity and Resistance to Obesity in Long Evans Rats. *PlosONE*, 5(11):e13825.

Schroeder, M., Gelber V., Moran, T.H. & Weller, A. (2010). Long term obesity levels after time-specific post-weaning food restriction in female OLETF rats. *Hormones and Behavior*, 58(5):844-53.

Schroeder, M. & Weller, A. (2010). Anxiety-like behavior and locomotion in CCK₁ knockout rats as a function of strain, sex and early maternal environment. *Behavioral Brain Research*, 211(2):198-207.

Schroeder, M., Shbiro, L. Gelber V. & Weller, A. (2010). Post weaning voluntary exercise exerts long term moderation of adiposity in males but not in females in an animal model of early onset obesity. *Hormones and Behavior*, 57(4-5):496-505.

Schroeder, M., Moran, T.H. & Weller, A. (2010). Attenuation of obesity by early life food-restriction in genetically hyperphagic male OLETF rats: Peripheral mechanisms. *Hormones and Behavior*, 57(4-5):455-62.

Marco, A., **Schroeder, M.** & Weller, A. (2009). Microstructural pattern of palatable food intake from weaning to adulthood in male and female OLETF rats. *Behavioral Neuroscience*; 123(6):1251-60.

Schroeder, M., Zagoory-Sharon, O., Shbiro, L., Marco, A., Hyun, J., Moran, T.H., Bi, S. & Weller, A. (2009). Development of obesity in the Otsuka Long-Evans Tokushima Fatty rat. *American Journal of Physiology*; 297(6):R1749-60.

Schroeder, M., Schechter, M., Fride, E., Moran, T.H. & Weller, A. (2009). Examining maternal influence on OLETF rats' early overweight: Insights from a cross-fostering study. *Developmental Psychobiology*; 51(4):358-66.

Schroeder, M., Shbiro, L. Zagoory-Sharon, O., Moran, T.H. & Weller, A. (2009). Toward an animal model of childhood-onset obesity: Follow-up of OLETF rats during pregnancy and lactation. *American Journal of Physiology*, 296(2):R224-32.

Zagoory-Sharon, O., **Schroeder, M.** & Weller, A. (2008). Adaptation to lactation in OLETF rats lacking CCK-1 receptors: body weight, fat tissues, leptin and oxytocin. *International Journal of Obesity*, (8):1211-21.

Lavi-Avnon, Y., Weller, A., Finberg, J., Gispan-Herman, I., Kinor, N., Stern, Y., **Schroeder, M.**, Gelber, V., Biran, S., Overstreet, D. & Yadid, G. (2007). The reward system and maternal behavior in an animal model of depression: a microdialysis study. *Psychopharmacology*, 196(2):281-91.

Schroeder M., Zagoory -Sharon, O., Lavi-Avnon Y., Moran T.H. & Weller, A. (2007). Pre-obesity in infant OLETF rats: the role of suckling. *Developmental Psychobiology*, 49(7):685-91.

Schroeder M., Lavi-Avnon Y, Dagan M, Zagoory-Sharon O , Moran TH & Weller A. (2007). Diurnal and nocturnal nursing behavior in the OLETF rat. *Developmental Psychobiology*, 49:323-333.

Blumberg, S., **Schroeder, M.**, Malkesman, O., Torregrossa, A-M, Smith, G.P. & Weller, A. (2007). Gastric preloads of corn oil and mineral oil produce different patterns of increases of c-Fos-like immunoreactive cells in the brain of 9-12 days-old rats. *Brain Research*, 1134: 140-147.

Schroeder, M., Zagoory-Sharon, O., Lavi-Avnon, Y., Moran, T.H. & Weller, A. (2006). Weight gain and maternal behavior in CCK1 deficient rats. *Physiology and Behavior*, 89(3):402-9.

Blumberg, S., **Schroeder, M.**, Haba, D., Malkesman, O., Torregrossa, A-M., Smith, G.P., & Weller, A. (2006). Effects of CCK-8 on independent ingestion and central c-fos-like immunoreactivity in rats on postnatal days 10 and 11. *Peptides*, 27(11):2820-8.

Hurwitz, I, Malkesman, O., Stern, Y., **Schroeder, M.**, Lavi-Avnon, Y., Shayit, M., Shavit, Y., Wolf, G., Yirmiya, R. & Weller, A. (2006). Stress and pain responses in rats lacking CCK1 receptors. *Peptides*, 27(6):1483-9.

Braw, Y., Malkesman, O., Bercovich, A., Dagan, M., Lavi-Avnon, Y., **Schroeder, M.**, Overstreet, D.H., & Weller, A. (2006). Anxiety-like behaviors in pre-pubertal rats of the Flinders Sensitive Line (FSL) and Wistar-Kyoto (WKY) animal models of depression. *Behavioural Brain Research*, 167, 261-269.

Blumberg, S., Haba, D., **Schroeder, M.**, Smith, G.P., & Weller, A. (2006). Independent ingestion and microstructure of feeding patterns in infant rats lacking CCK-1 receptors. *American Journal of Physiology*, 290, R208-R218.

Malkesman, O., Braw, Y., Zagoory-Sharon, O., Golan, O., Lavi-Avnon, Y., **Schroeder, M.**, Overstreet, D.H., Yadid, G. & Weller, A. (2005). Reward and anxiety in genetic animal models of childhood depression. *Behavioural Brain Research*, 164, 1-10.