

CURRICULUM VITA

Name: Avi Rosenstrauch
Born: February 11, 1952
Citizenship: Israeli
Address: Kibutz Kfar-Aza 85142
Military Service: 1970 - 1973

1. Academic Education:

B.Sc. 1974-1976: Deptment of Life Sciences, Ben-Gurion University of the Negev

M.Sc. 1976-1979: Deptment of Life Sciences, Ben-Gurion University of the Negev.

Thesis: Biosynthesis of Androgens and Ultrastructure of Leydig Cells in the Camel Testis.

Supervised by: Prof. Eli Bedrak, Prof. Michael Friedlander and Prof. Allan Degen.

Ph.D. 1985-1992: Deptment of Life Sciences. Ben-Gurion University of the Negev.

Thesis: Reduced fertility in roosters with an increase in age: hormonal control and effect of the antiestrogen, clomiphene citrate.

Supervised by: Prof. Michael Friedlander and Prof. Allan Degen.

2. Academic Activities:

2003- Senior Lecturer, Achva, Academic College.

2009-2011 Adjunct Senior Lecturer, Ben-Gurion University of the Negev.

1997-2003 Lecturer, Achva, Academic College.

1981-1997 Principal Officer in Ostriches and Poultry, Ministry of Agriculture, Extension Service.

1979-1981 Assistant in Physiology, Endocrinology, Cell Biology and Electron Microscopy, Department of Life Sciences, Ben-Gurion University of the Negev.

3. Academic Activities:

Fertility of Aging Roosters

Courses Taught:

1997- Cell Biology Achva, Academic College.

1999- Animal Physiology, Achva, Academic College.

1999- Comparative Endocrinology.

2001-2003: Physiology and Reproduction, Faculty of Agriculture, Hebrew University of Jerusalem.

2009-2011: Laboratory of Cell Biology. Ben Gurion University of the Negev.

2012 - Biology of Reproduction. Achva, Academic College.

Professional functions outside Universities/Institutions

2008 - Referee for Chief Scientist Ministry of Agriculture and Rural Development.

2007: Co-adviser in *The Extended Dictionary Ariel.*(Hebrew) Fruchtman, M.and Sivan, D. (eds) Kiriat Gat Press.

1985-1997: Poultry Physiology and Reproduction, Ministry of Agriculture, Extension Service

1990-1997: Ostriches management, Ministry of Agriculture, Extension Service.

4. Grants:

1. Prolongation of fertility in the aging rooster by pharmacological treatment. 1986. Ministry of Agriculture, with M. Friedlander, E. Bedrak and A. Degen (Ben Gurion University). \$7,000
2. Raising ostriches in Israel. 1987-1988. Ministry of Agriculture, with S. Hurwitz and I. Plavnik (Volcani Institute) and A. Degen (Ben-Gurion University). \$68,500
3. Prolongation of fertility in the aging rooster by pharmacological treatment. 1987-1989. Ministry of Agriculture, with M. Friedlander and A. Degen (Ben-Gurion University). \$58,380

4. Raising ostriches in Israel: aspects of digestive physiology. 1990. Ministry of Agriculture, with S. Hurwitz, and I. Plavnik (Volcani Institute) and A. Degen, and M. Kam (Ben-Gurion University). \$5,200
5. Improving egg production in arid areas with low cost management. 1991. Ministry of Agriculture, with A. Degen, and M. Kam (Ben-Gurion University). \$7,500
6. Reproduction and chick production in ostriches. 1991. Ministry of Agriculture, with A. Degen, and M. Kam (Ben-Gurion University) and A. Nir (Ministry of Agriculture). \$7,500
7. Effect of heat stress on fertility of broilers. 1994-1996. Ministry of Agriculture, with M. Friedlander (Ben-Gurion University) and A. Nir (Ministry of Agriculture) \$18,000
8. Phenotypical characters for quantitative selection of laying broiler hens. 1994-1996. Ministry of Agriculture, with M. Friedlander (Ben Gurion University) and A. Nir (Ministry of Agriculture).\$18,000
9. Prolapse in laying hens. 1997-1999. Ministry of Agriculture, with M. Friedlander (Ben Gurion University) and I. Yoselevitz (Ministry of Agriculture). \$ 18,000
10. Light management in laying hens. 1998-2000. Ministry of Agriculture, with M. Friedlander (Ben Gurion University) and I Yoselevitz (Ministry of Agriculture). \$25,000

5. List of Publications:

5.1 Peer reviewed paperes:

1. Friedlander, M., A. Rosenstrauch, and E. Bedrak (1984) Leydig cell differentiation during the reproductive cycle of the seasonal breeder *Camelus dromedarius*: an ultrastructure analysis. General and Comperative Endocrinology 55:1-11.
2. Degen, A., M. Kam, and A. Rosenstrauch (1988) Efficiency of utilization of energy for egg production in feed-restricted single comb White Leghorn hens. Journal of Agriculture Science, Cambridge111:303- 308.
3. Degen, A., M. Kam, and A. Rosenstrauch (1989) Time-activity budget of ostriches (*Struthio camelus*) offered concentrate feed and maintained in outdoor pens. Applied Animal Behavior Science.22:347-35
4. Degen, A., M. Kam, A. Rosenstrauch, and I. Plavnik (1991) Growth rate, total body water volume, dry-matter intake and water consumption of domesticated ostriches (*Struthio camelus*). Animal Production.52:225-23 .

5. Degen, A., M. Kam, and A. Rosenstrauch (1992) Effect of restricted cooled drinking water on the performance of broiler breeder hens in a hot, dry climate. *British Poultry Science*. 33:917-924.
6. Spinu, M., A. Degen and A. Rosenstrauch (1993) Effect of warm drinking water on the performance and immunological responses of broiler breeder hens raised at low air temperature. *British Poultry Science*. 34:361-366
7. Degen, A., S. Weil, A. Rosenstrauch, M. Kam and A. Dawson. (1994) Seasonal plasma levels of Luteinizing and steroid hormones in male and female ostriches (*Struthio camelus*). *General and Comparative Endocrinology*. 93:21-27.
8. Rosenstrauch, A. , A. Degen and M. Friedlander (1994) Spermatozoa retention by Sertoli cells during the decline in fertility in aging roosters. *Biology of Reproduction*. 50:129-136.
9. Muncher, Y., U. A. Sod-Moriah, S. Weil, A. Rosenstrauch and M. Friedlander (1995) Intratesticular retention of sperm and premature decline in fertility in the domestic rooster (*Gallus domesticus*). *The Journal of Experimental Zoology*. 273:76-81.
10. Weil, S., A.A. Degen, A. Rosenstrauch and M. Friedlander (1996) Intratesticular spermatozoa retention in low fertility ageing rooster is related to malformation of Sertoli cell ectoplasmic specializations. *Journal of Experimental Zoology*. 275: 317-325
11. Rosenstrauch, A., S. Weil, A. A. Degen and M. Friedlander (1998) Leydig cell functional structure and plasma androgen level during the decline in fertility in aging roosters. *General and Comparative Endocrinology*. 109:251-258.
12. Weil, S., I. Rozenboim, A.A. Degen, A. Dawson, M. Friedlander and A. Rosenstrauch (1999) Fertility decline in aging roosters is related to increased testicular and plasma levels of estradiol. *General and Comparative Endocrinology*. 115:23-28.
13. Weil, S., I. A.A. Degen, M. Friedlander and A. Rosenstrauch (1999) Low fertility in aging roosters is related to high plasma concentration of insulin and low testicular content of ACTH and lactate. *General and Comparative Endocrinology*. 115:110-115.
14. Rozenboim, I. and A. Rosenstrauch (1999) The effect of light source and regime on growing broilers. *British Poultry Science*. 40:452-457.
15. Rozenboim, I., A. Navot, N. Snapir, A. Rosenstrauch, M.E. El Halawani, G. Gvaryahu and A. Degen (2003) A method for collecting semen fro the ostrich (*Sturthio Camelus*) and some of itsquantitive and qualitive characteristics. *British Poultry Science*. 44:607-611.
16. Rozenboim, I., N. Mobarakin, R. Heiblum, Y. Chaiseh, I. Birani, A. Rosenstrauch, A. Sklan and M.E. El Halawani (2004) The role of prolactin in reproductive failure associated with heat stress. *Biology of Reproduction*. 71:1208-12133.

17. Rozenboim, I., A. Birani, Y. Chaiseh, S. Yahav, Rosenstrauch, A. Sklan and O. Halevy (2004) The Effect of Green and Blue Monochromatic Light Combination on Broiler Growth and Development. *Poultry Sci.* 83:842-845.
18. The effect of active immunization against vasoactive intestinal peptide and inhibin on reproductive performance of young White Leghorn roosters (2011) Avital-Cohen, N., R. Heiblum, N. Argov., A. Rosenstrauch, Y. Chaiseha, N. Mobarkey and I. Rozenboim. *Poultry Sci.* 90:2321-2331.
19. The effect of active immunization against vasoactive intestinal peptide (VIP) and inhibin on reproductive performance of aging White Leghorn roosters (2012) Avital-Cohen, N., R. Heiblum, N. Argov., A. Rosenstrauch, Y. Chaiseha, N. Mobarkey and I. Rozenboim. *Poultry Sci.* 91:161-174.