Remembering Prof. Natan Ayalon

Nathan was born in the United States on the 2nd of February 1922. In 1944 he completed his studies in veterinary medicine and obtained a DVM degree at the Middlesex University (now Brandis University). Even at this early stage in his career he moved from village to village taking care of herds of cattle that he so loved. Imbued with Zionist ideals and an infinite love for the Land of Israel, he immigrated with his wife Tova in 1947 to live on Kibbutz Ein Dor of the Hashomer Hatzair movement to build a warm Zionist home.

His professional work in Israel started as the Professional Director of the Association for Artificial Insemination “On” (1948-1949). From 1949-1957 he served as Supervisor of Artificial Insemination in the Ministry of Agriculture and then from 1957 as Head and Director of the Fertility Center at the Kimron Veterinary Institute. For two years (1963-1964) Natan served as Acting Director of the Veterinary Institute and then returned to the Fertility Department, a position he held until his retirement.

Due to his vast clinical skills in the field of infertility, he was revered by farmers and stockmen all over the country, who all needed his services. He understood and realized that without the research of new methods there would be no breakthroughs in the field of fertility of cattle. In order to achieve this goal, I had the honor to be selected together with Professor Lindner from the Weizmann Institute to start work afresh in the field of hormone research in cattle.

One of the goals he set for himself was to clarify the differences between a cow with a “difficult” hormonal profile (those that did not fall pregnant after three inseminations) compared to the normal cow. Even if until today we do not know everything in this field, we managed to understand the hormonal profile of progesterone and estrogen in the cycling cow and to develop a hormonal pregnancy test for early pregnancy detection in cattle and sheep.

The team that Prof. Ayalon founded was impressive in their knowledge, rigor and imagination. These qualities have enabled the successful research into hormonal mechanisms in the pregnant cow, knowledge that to this day serves as a basis for further studies.

Natan devoted many hours to teaching students of veterinary medicine, medical students and to nursing staff on the subject of fertility. He taught at the Koret School of Veterinary Medicine since its inception in 1988.

His numerous scientific works have been widely published in the form of articles and book chapters. He made sure to provide diagnostic means to veterinary professionals working with sheep, cattle and poultry. His research work placed emphasis on measurements of hormones in the blood and excretions. He performed his laboratory research
using advanced and expensive equipment for that time period, including gas-chromatography, radiation counters, scanners to detect radioactivity and others. Prof. Ayalon also invested great effort in developing sensitive methods for testing hormones and the development of rapid methods for diagnosis.

In addition to his clinical and research work he was made a member of several professional societies, including the British Fertility Society and the SSR (Society for the Study of Reproduction) in the United States. Beyond all these, he was a great teacher who left behind him a generation of students who continue in his way, in the field of fertility research in Israel and in the world.

Prof. Mordechai Shemesh

Prof. Natan Ayalon: Selected References


