

Special Lecture:

Prof. Dr. Gennadiy Zhegunov



Department of Biochemistry, Kharkov State Zooveterinary Academy, Ukraine

"A novel approach in complex treatment of babesiosis in dogs with application of cryopreserved red blood cells"

Monday, May 8, 2017, 13:30 CET

Lower Saxony Centre for Biomedical Engineering, Implant Research and Development (NIFE)

Building M20, S0, Seminar room 2520

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Prof. Dr. Gennadiy Zhegunov

A novel approach in complex treatment of babesiosis in dogs with application of cryopreserved red blood cells

Prof. Zhegunov is a noted scientist in the field of Cryobiology and Cryomedicine. He is actively working in this field since the early 1970s, being the author and co-author of over 300 scientific publications and several books. Prof. Zhegunov will present unique results on the novel approach of application of cryopreserved red blood cells in transfusion for the treatment of severe blood pathology in the animal model.

Babesiosis is a quickly progressing parasitic disease of dogs associated with the rapid destruction of red blood cells, requiring specific and immediate treatment. In severe cases of development of this pathology, blood transfusion is the only possibility to save the animal. The group of Prof. Zhegunov has developed and applied a novel approach in the complex treatment of babesiosis in dogs by transfusion of cryopreserved packed red cells. It was found that the blood transfusion of cryopreserved erythrocytes gives a positive result, both in acute and chronic course of the disease in a complex scheme of treatment of babesiosis. It was shown that by the tenth day of treatment all the clinical and biochemical parameters of blood of convalescent dogs have returned to physiological norm and all the symptoms of babesiosis were eliminated.