

**PROFILE
OF WORKING GROUP FROM
NATIONAL AGRICULTURE UNIVERSITY OF UKRAINE
TO THE 7th FRAMEWORK PROGRAM, RESEARCH FOR
DEVELOPMENT AND INTRODUCING OF NEW GENERATION OF
VETERINARY MEDICATIONS BASED ON NANOTECHNOLOGIES**

Working group from National Agricultural University of Ukraine represents one of our Educational and Research Institute – Institute of Veterinary Medicine and Quality and Safety of Livestock Products, Department of Therapy and Clinical Diagnostics:

- 1) Professor, Doctor of Biology Sciences, Correspondent-Member of Ukrainian Academy of Agrarian Sciences **Micola Tsvilikhovskyy**.
- 2) Senior Lecturer, PhD, Candidate of Veterinary Sciences **Volodimir Bereza**.
- 3) Senior Lecturer, PhD, Candidate of Veterinary Sciences **Sergiy Golopura**.

In this field in veterinary medicine our Institute provides the research in such directions: deficiency of biogenic elements in soil, plants and livestock animal organism. It causes either specific plant, animal and human disease or obtaining of low quality agricultural products. To resolve the problem its necessary to look for new approaches in developing of new methods and techniques to prevent disturbance in the chain “soil – plant – animal – human”.

Very perspective way to control the situation – usage of nanotechnologies based upon biologically active metals (BAM) and physiologically active substances (PAS).

Medications developed by means of nanotechnologies will represent new age veterinary medications (NAVVM). They will provide a prophylaxis and treatment of animal diseases, obtaining of safe, free of pollutants and high quality agricultural products.

Manufacturing of NAVVM stipulates usage of specialized equipment in order to elaborate biologically active elements (BAE) by means of nanotechnologies. Associated administration of PAS and NAVVM will enhance their synergic action in animal organism, prevent of outbreaks and spreading of different endemic diseases of animals and humans on the territory of European countries.

We would like to try to establish scientific cooperation between our University and research Institutions abroad. One of the best ways is to try to apply for the Large Integrated Project within the Framework Program 7 (FP7). You may also know, that the First Call for Proposals was published at the Cordis web-page at 22 December (http://cordis.europa.eu/fp7/home_en.html). As it was written FP7 is “The EU's largest ever funding programme for research and technological development”.

One of the calls, related to “food, agriculture and biotechnology” could be linked at http://cordis.europa.eu/fp7/dc/index.cfm?fuseaction=UserSite.CooperationDetailsC_allPage&call_id=4

The dead line for submitting proposals is 02 May 2007, so we are pressed of time.

In attachment you will find the package of all essential documents, I have downloaded from the site.

As far as I can guess, the first thing to start with is to find the appropriate “thematic priority” in the list of all those “activities”, and to write a good project, which fit this priority in the best way, and then apply via the web to the Brussel.

I have studied some of the documents and have picked up some priorities appropriate for writing a proposal.

Let’s try to apply for the large integrated project, where one of the collaborators would be you, another one – National Agricultural University of Ukraine (I can guarantee you the “green light” from my side) and we can to this list any other interested party you know (the minimum amount of partners is 3-4)!!!!

List of selected publications

1. **Tsvilikhovskyy M.I., Bereza V.I., Pogurskyy I.G.** (2005). Biogeocenotic pathology of animal and prophylaxis. – *Naukovy visnyk NAUU (Scientific bulletin of NAUU)* 89: 94-95.
2. **Tsvilikhovskyy M.I., Bereza V.I., Yakimchuk O.M. et al.** Examination of material from birds in diagnostics of biogeocenotic pathology. – *Naukovy visnyk NAUU (Scientific bulletin of NAUU)* 89: 97.
3. **Tsvilikhovskyy M.I., Golopura S.I., Skiba O.O.** Findings of mineral metabolism in the organism of chicken according to a season – *Naukovy visnyk NAUU (Scientific bulletin of NAUU)* 89: 131.
4. **Bereza V.I., Gopka B.M., Tsvilikhovskyy M.I. et al.** (2006). The nature and prophylaxis of major disorders of equine metabolism affecting reproductive function. – 4th International Congress of Specialists of Veterinary Medicine. – Kiev: 146 – 154. [in Ukrainian].
5. **Tsvilikhovskyy M.I., Bereza V.I., Grushanska N.G.** (2005). An influence of organic compounds of biogenic elements on reproductive function pigs and quality of litters. – *Naukovy visnyk NAUU (Scientific bulletin of NAUU)* 89: 93-94.

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