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Title: Associate Professor

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- **Education Background:**

2006 C.A.S. Grodno State Agrarian University, Grodno, Belarus;

2001 Grodno State Agrarian University, Grodno, Belarus;

1998 Volkovysk State Agricultural Technical School, Volkovysk, Belarus.

- **Working Experiences:**

2021-present Vice-Rector for Scientific Affairs, Grodno State Agrarian University;

2020-2021 Dean of the Biotechnology Faculty, Grodno State Agrarian University;

2014-2020 Associate Professor of the Department of Private Animal Science, Grodno State Agrarian University;

2008-2014 Senior Lecturer of the Department of Private Animal Science, Grodno State Agrarian University;

2006-2008 Assistant of the Department of Private Animal Science, Grodno State Agrarian University

2001-2006 Research Scientist, Belarus Zonal Experimental Station of Poultry-Farming, Zaslavl, Minsk District;

2001 Trainee zootechnician, collective farm "Avangard", Berestovitsky district, Grodno region.

- **Research Interests:**

Poultry farming.

- **Professional Activities:**

Author of more than 120 scientific and 36 educational and methodical works, 1 monograph has been prepared, 1 textbook has been published under the editorship of the Information and Computing Center of the Ministry of Finance. Under the guidance of Harchakou U. Y. 7 undergraduates successfully defended their master's theses, including 1 foreigner (Iraq), currently 2 graduate students are performing scientific research.

The role of the educational institution "Grodno State University as a University of Model 3.0 in the development of agro-industrial complex of the Grodno region

Horchakov V. GSAU

Abstract: 【Objective】 The most important direction of training of highly qualified specialists in agricultural production and implementation of scientific and innovative developments in the agro-industrial complex of the Grodno region is the use of modern approaches in the organization of educational, research processes and commercialization of scientific research based on the "University 3.0" model.

【Method】 The chain "education-science-production-commercialization", which corresponds to the concept of "University 3.0", should work to ensure that education prepares excellent specialists with the help of the latest achievements of science and technology. In the future, such specialists will participate in the creation of new scientific directions, implement their own scientific ideas, organize the commercialization of acquired knowledge and developed innovations directly in production. The role of the higher education institution of the "University 3.0" model is to ensure deep integration of educational, scientific and innovative activities with the external environment and establish close ties with business. Students, Teachers and researchers should get an idea of how the business works and how cooperation with real companies is possible.

On the other hand, higher education institutions should develop an infrastructure to support their own entrepreneurial initiatives, entrepreneurs should work inside the university. They are needed to promote new educational programs, scientific research, and create innovative enterprises at the university. For a researcher, a teacher and a university employee, combined work at such an enterprise is a good opportunity to test the results of their scientific activities, to try to implement their own innovative developments, to get a material reward.

In this regard, Grodno State Agrarian University has some experience in using the "University 3.0" model in the organization of the educational and research process, commercialization of scientific developments and organization of the production of innovative products. This is due to the fact that the university trains personnel for the real sector of the economy and graduates of the GGAU are sent to work at the enterprises of the agro-industrial complex of the republic for the positions of responsible specialists and middle-level managers (and sometimes senior) - the head of the farm, foreman, head of the complex, head of the production team, chief specialist and others. At agricultural enterprises, university graduates, having a certain economic and business independence, should maximize not only the acquired professional knowledge, but also the ability to organize effective business, commercial

and entrepreneurial initiatives.

【 Result 】 Currently, the university has a number of structural subdivisions that carry out their activities according to the type of "University 3.0".

Scientific research at the university is carried out on a modern scientific and technical basis, which includes:

- branch research laboratory;
- experimental field of the university with an area of 104 hectares;
- breeding center for the creation of new varieties of grain crops of the bakery direction;
- branch Biotechnology Laboratory for the Reproduction of Farm Animals;
- research garden with fruit storage;
- branch research laboratory "DNA-technologies";
- scientific Center for Beekeeping;
- veterinary University Clinic «UniВетЭксперт».

The experimental research site of the EI "GSAU" is an educational, scientific and production center of the university model 3.0.

Its areas of activity are extensive and include:

- educational;
- scientific-research;
- commercial;
- production activities.

The area of the experimental research site is 104 hectares, of which the research garden occupies 5 hectares, agrochemical center for testing plant protection products - 34 hectares, the breeding center for the creation of new varieties of grain crops of the bakery direction - 18 hectares.

BRL "DNA Technologies" is engaged in testing animals to confirm the control of the authenticity of origin, for the presence of genetically determined diseases, according to genes responsible for economically useful qualities. The branch biotechnological laboratory for reproduction of farm animals has developed a biotechnological system for obtaining bovine embryos using in vitro and in vivo methods that allow mass production of embryos to create highly productive herds of animals, obtain embryos from animals with reproductive tract problems and increase the genetic potential and efficiency of animal reproduction. The veterinary clinic "UniВетЭксперт" is equipped with the latest

equipment, on which specialists quickly and efficiently carry out endoscopic, ultrasound, X-ray examinations in agricultural and domestic animals.

On the scientific and technical basis of the university, research is carried out on the preparation of master's, candidate's and doctoral dissertations, internships are conducted to improve the qualifications of citizens of the Republic of Belarus and foreign citizens.

【 Conclusion 】 Thus, the further use of structural subdivisions of the Grodno State Agrarian University of the "University 3.0" model and the creation of new formations of this type is the most important factor in improving the quality of training of agricultural production specialists, combining professional knowledge, organizational skills, business acumen and the ability to organize entrepreneurial and commercial activities at agricultural enterprises, increasing their effectiveness.