

Laboratory of technology of prelethal preparation, primary processing and estimation of quality of raw materials



The laboratory is created in 1941.

M.F.Tomme was the first head of laboratory. Then it headed D.N.Grudev, A.V.Sokolov, G.S.Unanov, E.G.Shumkov, J.V.Tatulov.

In the beginning the technology laboratory of feeding and the prelethal maintenance of cattle which has joined incorporated laboratory technology of prelethal preparation, primary processing and an estimation of quality of raw materials later has been created.

At various times in laboratory leading experts of meat branch worked: A.K.Shvabe, M.G.Lure, S.G.Karavaeva, N.M.Krehov, M.G.Osipov, M.I.Trantseva, E.A.Shklovsky, N.I.Kuritsyn, N.P.Gorbataja, V.I.Morozov, M.F.Harkova, P.P.Veselov, T.D.Kirillina, L.F.Karmysheva, I.P.Nemchinova, R.V.Volodchenko.

Now in laboratory work high quality experts with a wide experience of the Russian and international cooperation.

The laboratory structure includes three sectors:

- Sector of processing of collateral raw materials and manufacture of animal forages;

- Sector of technology of endocrinal-fermental raw materials;
- Sector of preservation of the environment.

The general directions of scientific and industrial activity:

- Working out of uniform national standards on cattle and meat of all kinds of the lethal animals providing unified with international requirement, an estimation and differentiation of cattle and the received carcasses providing an intensification of cultivation and feeding of cattle, increase in manufacture of quality meat;
- Working out of the national standards harmonized with international, of the carcasses defining cutting of lethal animals on cuts for realization in trade, a network of public catering and for industrial processing;
- Working out of objective methods of an estimation of quality of carcasses of lethal animals;
- Studying of the meat raw materials received from animals of a various direction of efficiency, including GMO, taking into account maintenance and feeding type conditions;
- Working out of the standard documentation on technological processes of delivery-acceptance, transportation, prelethal preparation, primary processing of animals and processing of products of slaughter;
- Participation in working out of commercial standards on all kinds of meat of lethal animals within the limits of commission of experts EEC/UN (Geneva, Switzerland);
- Working out of new production technologies of fodder additives for agricultural animals and a bird with new non-polluting and highly effective components;
- Working out of new generation of forages for unproductive animals;
- Working out of medical preparations from endocrinal-fermental raw materials;

- Ecological forecasts of development of the meat industry;

Scientific and industrial achievements

Now the laboratory develops a number of the major documents regulating technological processes of delivery-acceptance, transportation, prelethal preparation, primary processing of animals and processing of products of slaughter.

Many perspective technologies developed by laboratory, are introduced and successfully function at leading enterprises of the Russian meat industry. As examples it is possible to result a method of an objective estimation of pork carcasses on an exit of a muscular fabric or not having analogs technology of complex processing of lipidic raw materials in a biodiesel engine with high qualitative characteristics and the low cost price that allows the enterprises to provide own motor transport with ecologically safe alternative fuel for diesel engines.

Now the laboratory carries out working out of various engineering specifications: ГОСТ Р «the Horned cattle for slaughter. Beef in semi-carcasses and quarters», ГОСТ Р «Meat. Mutton cutting», ГОСТ Р «Meat. Veal cutting».

In the long term scientific researches of laboratory will be directed on working out of the requirements providing lifetime quality formation of cattle and received meat, and also on the further perfection of technological processes of acceptance, prelethal preparation and processing of lethal animals taking into account new directions in the conditions of cultivation, feeding and uses of the new equipment.

Also one of perspective lines of activity of laboratory is studying of nonconventional raw materials, such as a venison, camel meat, буйволятина.

At various times leaders of meat branch of Russia, such as "Miratorg", "Belgrankorm", «the Klinsky meat-packing plant», and also many other small and large enterprises of the meat industry used laboratory services.

Contacts:

The laboratory chief: Irina Sus, candidate of technical sciences, the senior lecturer

Ph.: +7(495) 676-9771

e-mail: pervichka@vniimp.ru

The senior research assistant: Tatyana Mittelshtejn

The senior laboratorian: Michael Vasilevsky

The senior laboratorian: Ilya Kozyrev

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