“CHERGINSKY”, AMARANTH CULTIVAR FOR SIBERIA

Description
Amaranth is a food and fodder crop rich in protein and indispensable amino acids not available in sufficient amounts in traditional agricultural crops. “Cherginsky” is a new amaranth cultivar developed for Siberia at the Institute of Cytology and Genetics, SB RAS in cooperation with the Siberian Institute of Agriculture, Omsk.

Technical appraisal and economic benefits
Amaranth “Cherginsky” is distinguished by precocity, high yield performance of green (up to 85 t/ha), dry matter, and grain. “Cherginsky” is highly adaptable and enables cultivation under various environmental conditions. The precocity of “Cherginsky” provides obtaining of viable seeds under West Siberia conditions. In its chemical composition, amaranth “Cherginsky” is not inferior to regionalized cultivars and many fodder crops. The dry matter of the amaranth contains 15% of raw protein, 19% of fiber, 45% of nitrogen-deprived extracts, and 13% of sugars.

Application areas
As food supplements, for production of new medicinal preparations and perfumery, and in cattle-breeding.

Development stage
Amaranth “Cherginsky” has been regionalized for five regions of Western Siberia: Kemerovo, Novosibirsk, Omsk, Tomsk, and the Altai Territory. Granules and silage were produced from the green chop of the amaranth.
The granules were of better quality than those made of pea-oats mixture. The silage made from the green chop of this amaranth cultivar has good organoleptic indices: protein 3.5%, fiber 16%, fat 1.9%, BAA 36%. The content of organic acids is as follows: lactic acid – 68%, acetic acid – 32%, no butyric acid. Grains of “Cherginsky” amaranth contain 6% of oil, a valuable medicinal substance of anti-oxidant effect.

Patent situation
Authors’ Certificate No 6680

Commercial offers
Search for investors to introduce the development in practice.

Estimated cost
To be negotiated.

Contacts
Cand.Sc. Galina N. Kiseleva, Assistant Director for International Ties
Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences
10, Prosp. Akademika Lavrentieva, Novosibirsk, 630090, Russia
Phone: (383) 333-36-99
Fax: (383) 333-12-78
E-mail: kiseleva@bionet.nsc.ru
http://www.bionet.nsc.ru