



UNA REGIONE + GRANDE

A larger region



Axis 1 Action 1.1.4

"Creation of new nutraceutical foods through the development of innovative fertilizers and the bio-fortification of wheat flours" Acronym: **NutriGrano**

The project aims to develop food products with high added value starting from a raw material, wheat, enriched with bioactive compounds through a new low environmental impact foliar fertilization system, and the subsequent optimization of the production and transformation process for maximizing the extraction of these bioactive compounds and increasing healthiness and nutraceutical characteristics throughout the supply chain. **Promolog S.R.L.**, a **Grandi Molini Italiani S.p.A.** company, is one of the partners, as well as leader partner, of the initiative. The evaluation will be carried out using a target approach on chemical compounds with high nutritional value, in particular the minerals calcium, magnesium and potassium. The work will be carried out with a multidisciplinary approach that will include the identification of the most suitable wheat varieties for the final purpose and the development of a pool of innovative fertilizers aimed at the nutritional improvement of the wheat. Wheat, grown according to the protocols developed during the project, will be analyzed to verify the achievement of the set objectives. Furthermore, it will be used for the development and optimization of decortication, fractionation, milling and stabilization techniques of the by-products that will be based on the possibility of minimizing the part of the pericarp and the aleuronic layer of the grain (containing most of the microelements) removed with the bran, and the subsequent industrial scale-up. The flours thus obtained will be tested for the production of baked goods based on cereals rich in microelements. The goal is to identify suitable formulations that enhance the organoleptic qualities and preserve the added nutritional characteristics to obtain a health product capable of satisfying not only the palate but which acts at the same time as a balancer of all those food causes that lead to deals of discomfort and able to provide mineral salts such as magnesium, calcium and potassium, with countless benefits for the nervous, skeletal and circulatory system. For the new products, nutritional and health labeling will be prepared, to highlight the composition of the nutrients present, in accordance with current European legislation.

Participating subjects: PROMOLOG S.R.L. (LEADER PARTNER), FOMET S.P.A., TERRE DEL DELTA S.C.A.

Admitted contribution: € 181,845.78

