

## Nanofertilizers trial

It is plant nutrition that determines health and the ability of the plants to better overcome abiotic and biotic stress.

In this regard E.B.F. (Euro Bio Fert srl), in the Demetra project commissioned to test three different commercial preparations: Olivobio and Agribioaktiv (pellet), and Biogen Beta (foliar) respect to olive potted plants cv. Ogliarola.

The different formulations will be tested on their own and in combination with nanoparticles at concentrations of 10 % and of 30%, as described in the table below:

<b>Thesis</b>	<b>TREATMENTS</b>
<b>1</b>	OLIVOBIO
<b>2</b>	OLIVOBIO + 10% Nano
<b>3</b>	OLIVOBIO + 30% Nano
<b>4</b>	AGRIBIOAKTIV
<b>5</b>	AGRIBIOAKTIV + 10% Nano
<b>6</b>	AGRIBIOAKTIV + 30% Nano
<b>7</b>	BIOGEN BETA
<b>8</b>	BIOGEN BETA + 25% Nano
<b>9</b>	CONTROL

The trial will be developed along 18 months.

Different agronomic parameters will be frequently evaluated and verified if the different combinations (fertilizers alone or in combination with nanoparticles) are able to determine positive effects for the olive plants.

The agronomic parameters that will be evaluated during these tests will be:

- Number and length of internodes;
- Biomass produced both at root level and at foliar level;
- Shape and size of the root distribution.
- Other (we do not exclude to consider additional parameters that, during the trial, will be able to give additional info's useful to better understand the results obtained).