Research topics and equipments

Valorization of agro-resources in the context of a sustainable development – obtaining and valorizing of bioactive molecules under eco-friendly conditions:

- establishing efficient methodologies for extraction-identification and characterization of bioactive molecules from plant sources (raw materials, byproducts or waste);
- (ii) study of the influence of fertilizing agents on the content of bioactive molecules from the plant;
- (iii) assessment of the impact of plant waste on the environment and the possibilities of their recovery by using bioactive molecules as a source.

Equipments:

- ✓ Microwave reactor Milestone (synthesis and extraction)
- ✓ Heidolph rotary evaporator Laborota 4000
- ✓ **HPTLC CAMAG** (Linomat 5 sampling system+ development room + UV Alert smart camera+ TLC Scanner 3)
- ✓ Multiparameter Thermo Scientific Orion Versa Star Pro (pH, Conductivity/TDS, DO)
- ✓ ABBE refractometer
- ✓ Polarimeter (Carl Zeiss Jena)
- ✓ UV-Vis Spectrophotometer
- ✓ FT-IR Spectrophotometer