

Isotopic analysis Stable isotopes

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FONDAZIONE EDMUND MACH



ISTITUTO AGRARIO
DI SAN MICHELE ALL'ADIGE

Studying the stable
isotope ratios
of bioelements
(H, C, N, O, S)

- Developing and validating **innovative isotopic methods** in different matrices
- **National reference laboratory** for the application of isotopic analyses in the field of food traceability
- 5 projects funded by **European agencies** and 3 by **national agencies** in the last 10 years



TECHNOLOGY

Equipped with the most complete instruments to perform isotopic analyses:

- 1 2H SNIF-NMR (Site-specific Natural Isotope Fractionation-Nuclear Magnetic Resonance) with 2H probe (Bruker)
- 4 IRMS (Isotope Ratio Mass Spectrometers) interfaced with Elemental Analyser, CO2 equilibrators, Pyrolyser, Gas Chromatographer/micro-combustion/pyrolysis (ThermoScientific, VG ISO GAS, Elementar-Isoprime)

Many years experience in applying stable isotope ratio analyses to trace the geographical origin of food and to verify the authenticity of organic products and natural compounds.

Competences in supporting studies in ecology (trophic interactions), hydrology (lake movement dynamics), physiology (vine nutrition), climate reconstruction (wood rings).

PROJECTS

JOINT RESEARCH CENTRE, Ispra (I);
Geel (B)

ICQ-RF-MINISTRY OF AGRICULTURAL, FOOD
AND FORESTRY POLICY, Rome (I)

our international network

UNIVERSITY OF EAST ANGLIA, Norwich (UK)

TECHNISCHEN UNIVERSITÄT MÜNCHEN (D)

EUROFINS SCIENTIFIC, Nantes, (F)

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