

Unleashing the Potential of Photonics in Agriculture and Health



REVOLUTIONIZING PHOTOTHERAPY WITH ADVANCED SPECTROSCOPY

At the International Centre for Research on Innovative Bio-based Materials, we harness the power of our state-of-the-art spectrometer to explore the frontiers of photonics. Our unique capability to detect the rotation of photons opens new possibilities for enhancing phototherapy equipment, offering unparalleled precision and efficiency.

AGRICULTURE TRANSFORMATION

Molecular Analysis

Feature: Advanced light interaction for precise molecular identification.

Benefit: Empower precision agriculture with detailed crop health assessments and nutrient profiling.

Multiple transitions

Feature: Comprehensive study of electronic, vibrational, and rotational transitions.

Benefit: Gain deep molecular insights to foster targeted agricultural interventions.

UV-Vis Absorption

Feature: Specialized UV-Vis absorption spectroscopy for critical electron transitions.

Benefit: Optimize chlorophyll quantification to guide effective fertilizer use.

Real-Time Monitoring

Feature: Immediate data acquisition for dynamic decision-making.

Benefit: Enable farmers to swiftly adapt practices, maximizing yield and sustainability.

HEALTHCARE INNOVATION

Our technology transcends agricultural applications, offering significant advancements in health diagnostics and treatment. By integrating our spectrometry services, healthcare providers can achieve breakthroughs in patient care and therapeutic outcomes.

TARGETING EXCELLENCE

Our services are meticulously crafted for industry leaders like Philips or Mitolight, who are at the forefront of phototherapy technology. We provide the infrastructure necessary to elevate your products to new heights, ensuring they stand out in the competitive global market.

INDUSTRY PIONEER

Classified under NACE Division Q86.9, we are at the vanguard of research and development in bio-based materials. Our work transcends traditional boundaries, setting new standards for the industry..

GLOBAL REACH, LOCAL EXPERTISE

With a strategic focus on Poland, Germany, and France, we are positioned to collaborate with partners who share our vision for innovation. Our expertise is not confined by borders, as we aim to create a worldwide impact.