

NANOSAFETY

Your target, our expertise

Nanomaterials and nanotechnology offer substantial possibilities to improve the quality of life, to contribute to economic growth, and respond to key societal challenges. It is crucial to ensure the safe development and application of nanomaterials and nanotechnologies, and to identify any potential risks to health, food and environment.

01 Consultancy services

We provide problem-solving consultancy services and a wide range of customised services associated with nanosafety.

02 *In silico* assessment

Predictive models for nano-risk assessment*:

- QSAR/ QSPR/ QSTR
- Regression
- Classification
- Graph networks

03 Multiplex analysis

High-throughput analysis using Luminex FLEXMAP 3D:

- Cytokines
- Chemokines
- Growth factors
- Novel biomarkers

04 Advanced human-based models

Nanomaterials testing on advanced cell culture models:

- Lung
- Skin
- Liver

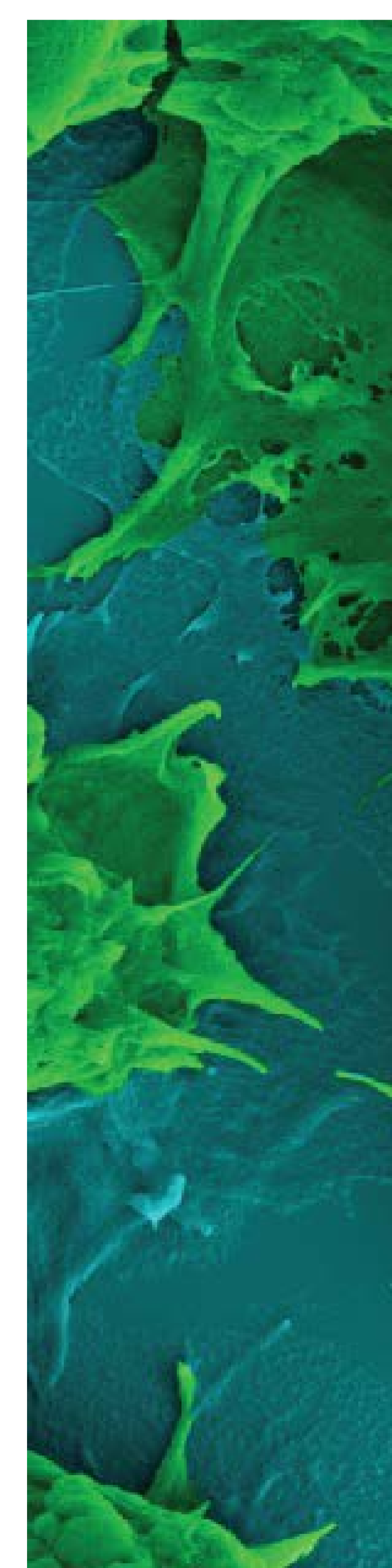
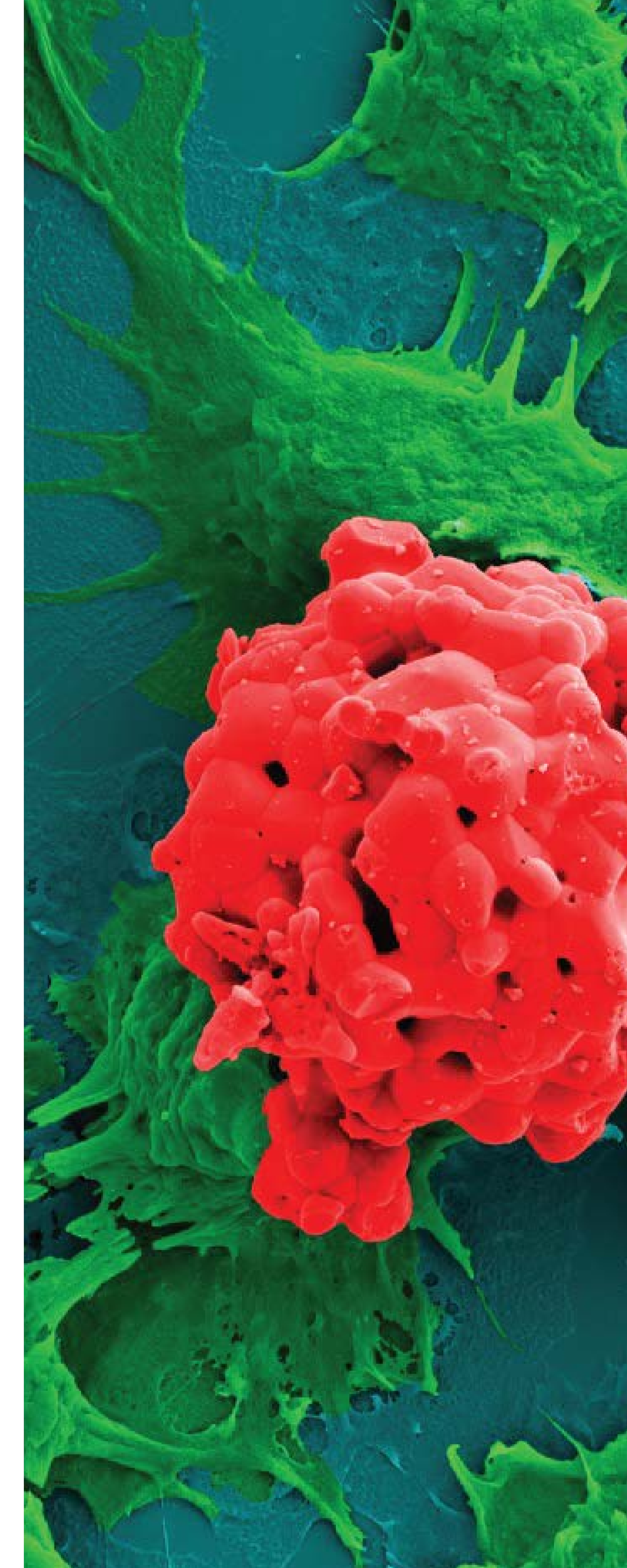
Development of cellular models tailored to the customer's and project's needs

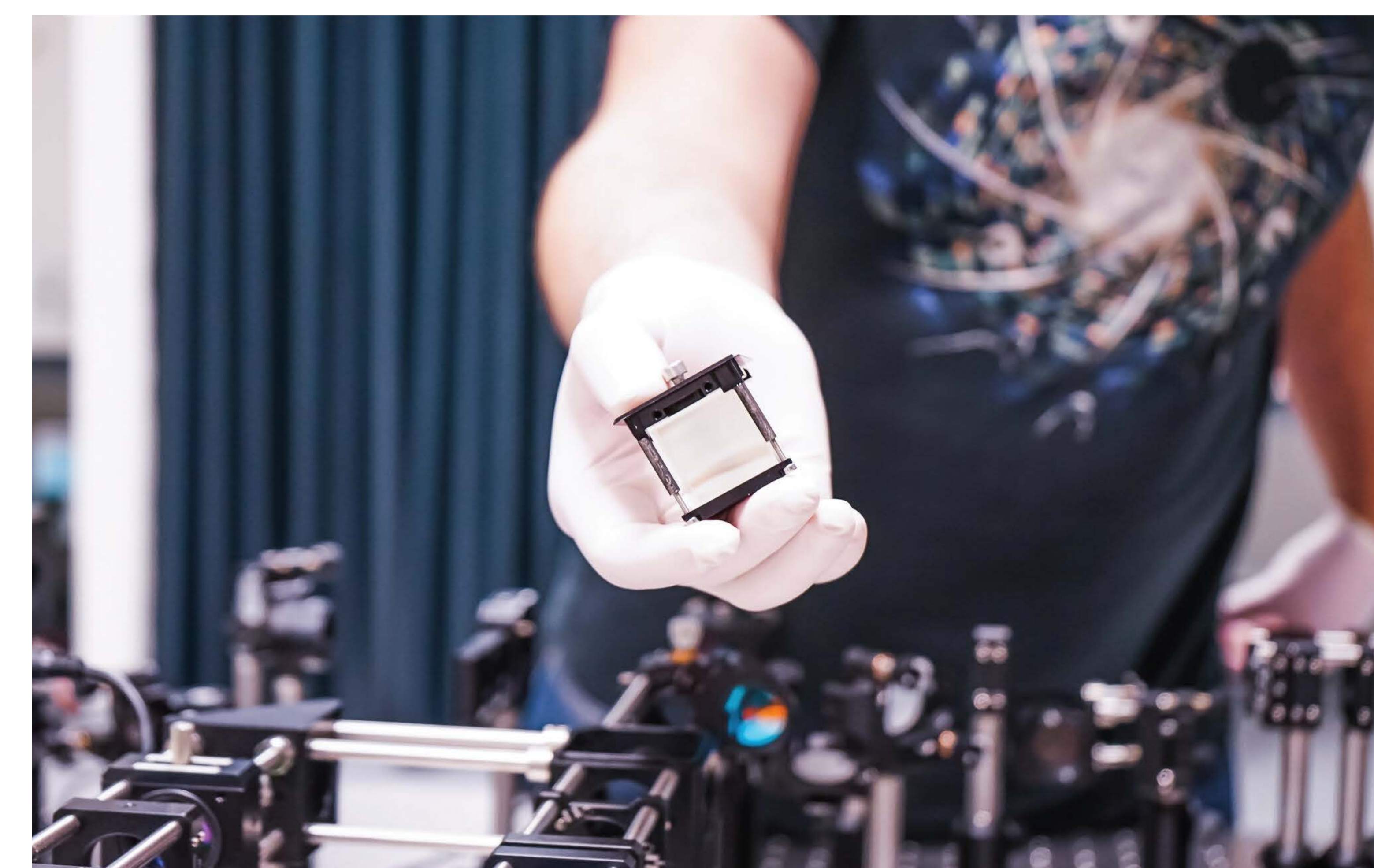
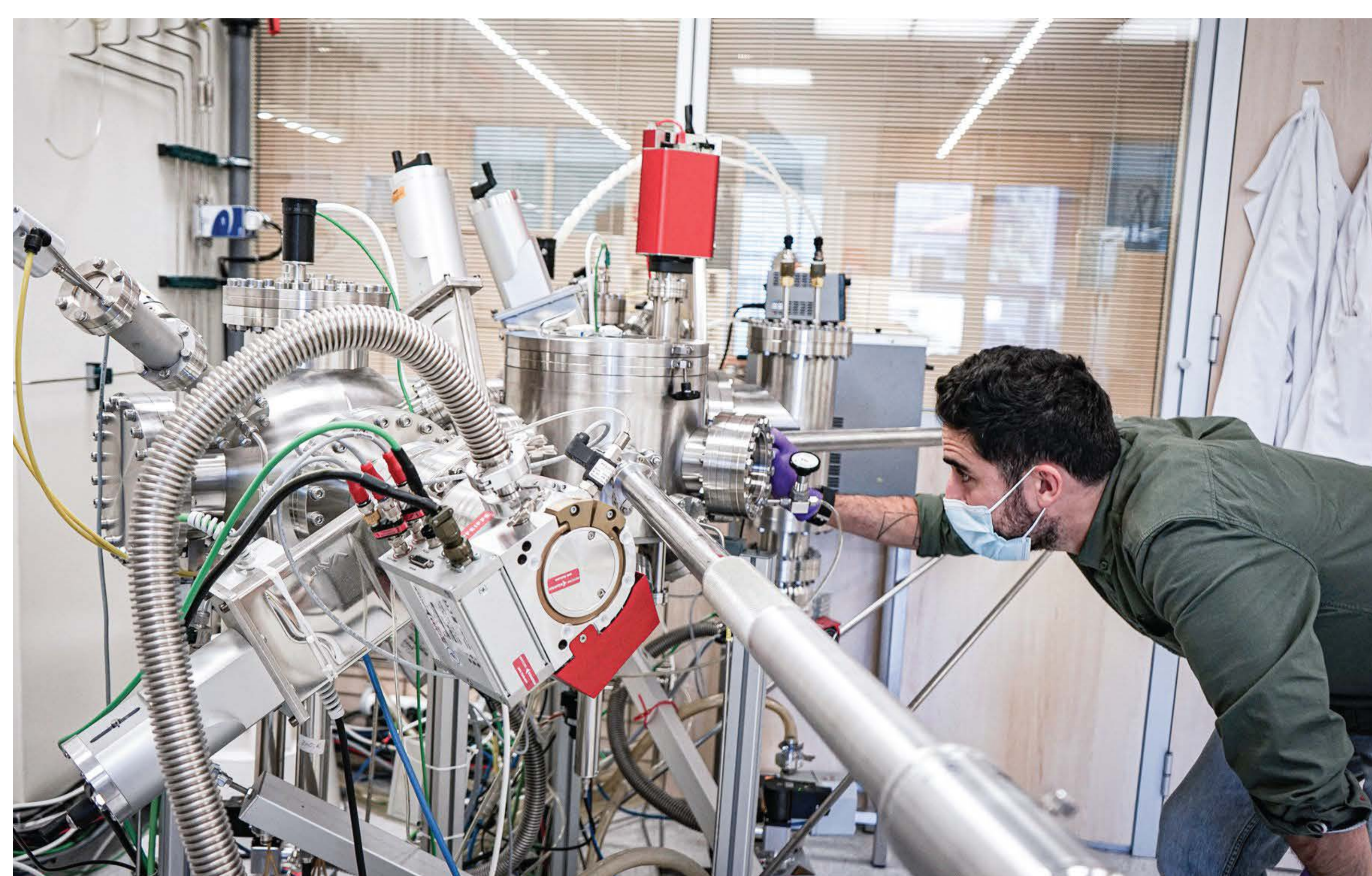
05 Nanotoxicity assessment

Nanotoxicology assessment *in vitro** and in *in vivo* bridging model (*C. elegans*):

- Cytotoxicity
- Inflammation
- Genotoxicity
- Epigenetic alterations

* in accordance with the requirements of the ISO and OECD guidelines





YOUR WORLDWIDE PARTNER FOR SCIENCE & INNOVATION

Shaping the future together in Clean Energy, Food, Health, Smart Digital NanoSystems, Sustainable Environment and Advanced Materials & Computing.

01 SCIENCE

Discover our areas of research and expertise, where we dive into nanoscience and intermix various disciplines to transform it into nanotechnology.

03 SERVICES

INL has state-of-the-art scientific equipment which can be used by internal and external stakeholders within the research, technology, and innovation fabric. You can access this open facility with expert support, either remotely or in-person, for full-service or for independent use after initial in-house training.

02 TECHNOLOGY

By nourishing on our multiple disciplines in house and with partners, we develop and deploy solutions to the market.

04 SOCIETY

INL is committed to disseminating to all audiences the nanotechnology concepts, to bring society closer to our scientific developments. Visit our website and explore our activities and events.

For more information:



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