

## COMPETITIVE ADVANTAGES

- **Customized conjugation solutions;**
- **A deep knowledge and rich experience** in the design and synthesis of imaging probes and radioconjugates;
- **Global offer:** from chemistry to in vivo imaging (easy access to a fully equipped preclinical imaging platform).

## APPLICATIONS/MARKETS

- Drug discovery:
  - Drug biodistribution monitoring;
  - Pharmaco-imaging studies;
- Preclinical proof-of-concept;
- Image guided therapy and surgery;
- Imaging biomarker;
- RadioImmunoTherapy (RIT).

## LABORATORY

- Institut de Chimie Moléculaire de l'Université de Bourgogne (ICMUB).

## CONTACT

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## PRESENTATION

Molecular imaging tools can speed-up the evaluation of drug candidates. SPECT/PET or optical in vivo imaging requires the injection of a labeled molecule, containing an imaging probe and a targeting vehicle, designed to interact with a biological target. The development of such agent is often not straightforward and can be a rate-limiting step in molecular imaging.

Welience Bioconjugates **brings its expertise to identify the best strategy for labeling a biomolecule for imaging studies.**

### Our services include:

- Modification of antibodies, antibody fragments (Fab, Fab', Fab'2, ScFv, Nanobody, Affibody) or other biologics with chelators (DOTA, DOTAGA, NODAGA or DFO-like compounds) or with fluorescent dyes adapted for in vivo optical imaging
  - ✓ Optimization of Degree of Labeling (DOL)
  - ✓ Purification and quantification included in the process
- Development of radiolabeling procedures (Cu64, In111, Ga68, Zr89, Lu177, Y90)
  - ✓ Quality Control: Radiochemical purity, radiolabeling yield assessed by radio-HPLC and/or radio-ITLC.
  - ✓ Stability tests in serum or others biological media.
- Synthesis of peptide-based conjugates for in vivo or in vitro imaging;
- Preparation of multimodal probes for fluorescence imaging and/or nuclear imaging, and /or MRI.