



IBBL BIOSERVICES  
SAMPLE ANALYSIS & QUALITY CONTROL

# WHO ARE WE?

IBBL is an autonomous not-for-profit institute dedicated to service provision in the biomedical sector. As an ISO 9001 (general quality management) certified organisation compliant with the principles of ISO 17025 accreditation (competence of testing and calibration laboratories) and NF S96-900 certification (quality of biological resource centres)\*, we offer a full range of bioservices to industry, academia and EU consortia.

In addition to our dedication to quality and our range of services, our location at the heart of Europe makes us an ideal partner for your clinical trials and research projects.

Our facilities offer a large spectrum of sample analysis services for quality control and characterisation, ranging from simple DNA quantification to sequencing and miRNA profiling. Specialised in the optimisation and validation of sample testing methods, we provide methods, samples and data fit for your needs.

\* More information available on [www.ibbl.lu/about-ibbl/#quality](http://www.ibbl.lu/about-ibbl/#quality)





# WHAT DO WE OFFER?

1

## Quality Control of Fluid Biospecimens

Immunoenzymatic and biochemical assays on serum, plasma, urine and cerebrospinal fluid samples, including:

- CD40L measurement
- Creatinine measurement
- Cystatin C measurement
- Serum fingerprinting \*
- Haemoglobin measurement
- CRP measurement
- Calprotectin measurement
- LacaScore
- Cytokine level measurement \*
- Fibrinogen measurement

2

## Quality Control of Nucleic Acids

Spectroscopic and amplification assays, including:

- DNA quantification by spectrophotometry
- DNA quantification by spectrofluorometry
- RNA quantification by spectrophotometry
- RNA quantification by spectrofluorometry
- Human DNA quantification (qPCR)
- Bacterial DNA quantification (qPCR)
- DNA cross-linking assessment
- DNA fingerprinting
- Long Range PCR
- RNA integrity number (RIN) measurement
- Size range PCR
- RT-PCR for mRNA/miRNA
- SPUD assay
- mRNA quality index
- Illumina FFPE QC
- cfDNA size measurement
- WGA index



# WHAT DO WE OFFER?

3

## Quality Control of Cells

Flowcytometric and gene expression  
analysis assays, including:

- Cell viability, apoptosis
- Purity of cell subpopulations
- Cell functionality \*
- PBMC QC \*

4

## Quality Control of Tissue

- Histological QC (Tumour/stroma/necrosis)
- FFPE tissue QC 1 \*
- FFPE tissue QC 2 \*

5

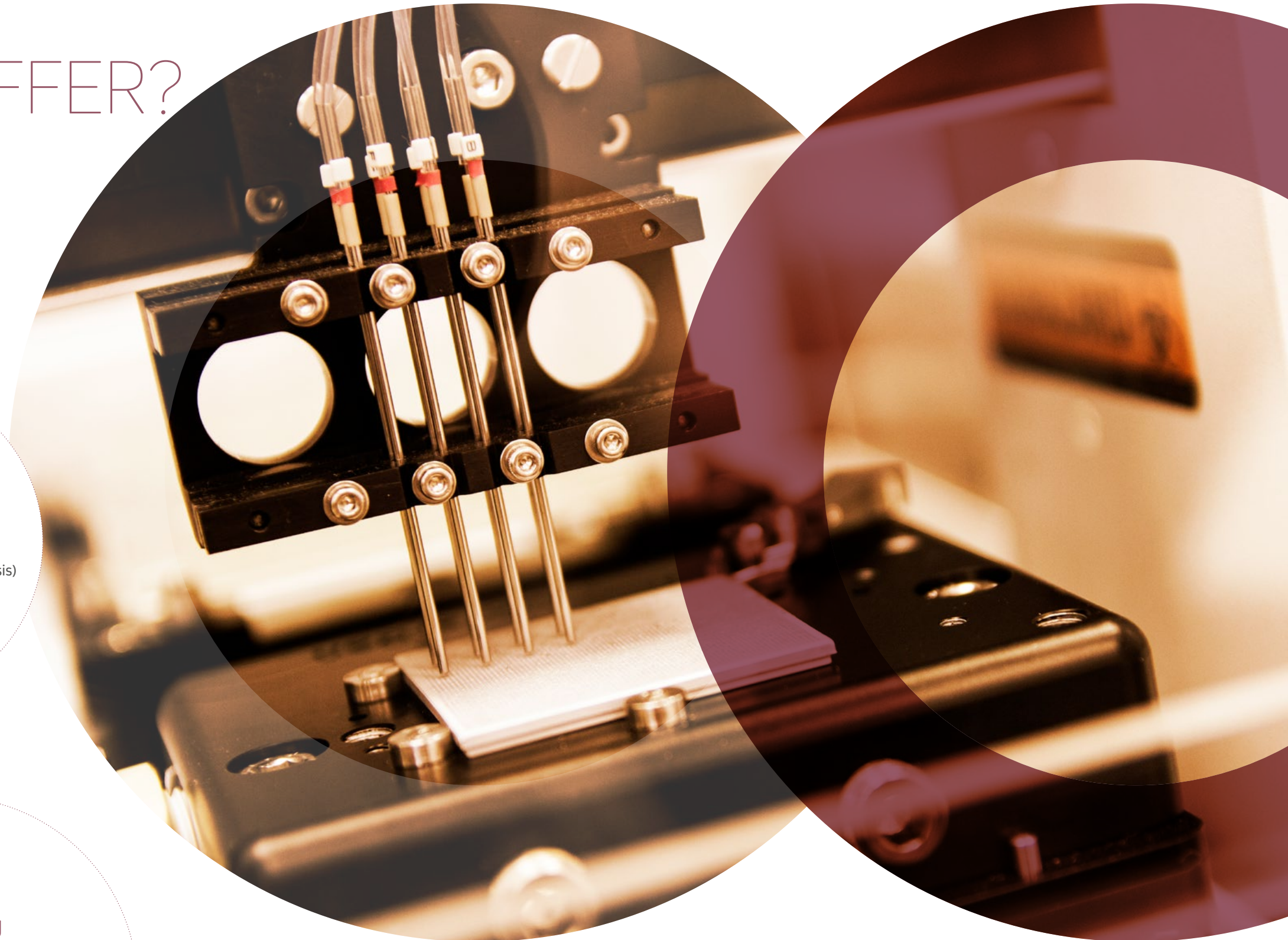
## Sample Characterisation

- Sequencing (16rRNA, TruSeq genotyping, HLA genotyping)
- Methylation analysis
- miRNA & onco-mRNA profiling (using high throughput Wafergen SmartChip™)
- Bio-Plex (multiplex measurements of cytokines, inflammation proteins and phosphoproteins)

6

## Customised Assays

- ELISA
- End-point PCR
- Single and multiple qPCR (gene expression signatures)
- Immunohistochemistry
- Production of quality control material







# WHY CHOOSE US?

## ✓ TO ENSURE YOUR SAMPLES ARE FIT-FOR-PURPOSE

Don't waste precious material. Verify the quality of your samples and make sure they are suitable for their intended downstream purpose. Our scientific team has extensive experience, not only in executing quality control assays, but also in developing in-house quality control tools for all types of biological samples.

## ✓ FOR RELIABLE, VALIDATED ASSAY PROTOCOLS

As one of few European biobanks, IBBL is an ISO 9001 certified organisation compliant with the principles of ISO 17025 accreditation and NF S96-900 certification, meaning that our assays are not only standardised, but also go through a formal validation process. In addition, we ensure the validity of the results we provide to you by regularly assessing the quality of our analysis methods through proficiency testing.

## ✓ TO MAKE USE OF ADVANCED TECHNOLOGIES

Besides more traditional assays, we have invested in a number of advanced technologies such as meta-genomic sequencing or miRNA profiling to offer our clients a comprehensive range of services. For efficiency and speed, our assays have been implemented on high throughput platforms, allowing you to save time and costs.

## ✓ FOR CUSTOMISED ASSAYS

Our team of scientists and a dedicated project manager will work with you to tailor characterisation assays to your specific needs, from the development to the production and validation of the assays.





PUT YOUR SAMPLES IN SAFE HANDS

GET IN TOUCH!



[www.ibbl.lu](http://www.ibbl.lu)



[bioservices@ibbl.lu](mailto:bioservices@ibbl.lu)



+352 26 970 520

# YOUR EUROPEAN BIOSERVICE PROVIDER

Biobanking

Sample  
Processing

Sample Analysis  
& Quality Control

Biospecimen  
Proficiency Testing

Biomarker  
Validation

University Biobanking  
Certificate



visit [www.ibbl.lu](http://www.ibbl.lu)  
write to us at [bioservices@ibbl.lu](mailto:bioservices@ibbl.lu)  
call us on +352 26 970 520

