

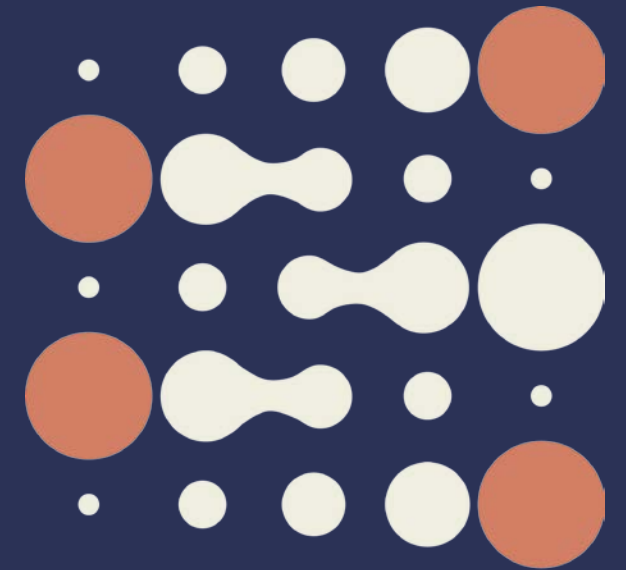
# Laboratory safety improvements and accreditation

*Dr Villar Stéphanie, Dr Kozlakidis Zisis*

International Agency for Research on Cancer

Villars@iarc.who.int

International Agency  
for Research on Cancer



# Introduction/Background/Motivation

The construction and the relocation of our laboratories and biobank to the “Nouveau Centre” were challenging, but it was a great opportunity to improve laboratory safety and to apply for accreditation

## What are IARC laboratories and Biobank?

### More than 6.5 millions of samples:

- From more than 50 countries
- Great diversity of samples type



### Storage:

- Room Temperature,
- Freezers,
- Nitrogen Tanks



### Various activities:

- Biobank,
- Molecular biology,
- Genetics,
- Epigenetics,
- Cell culture,
- Histopathology,
- Virology,
- Proteomics,
- Metabolomics,
- Biochemistry





## Biosafety

Through the application of combinations of:

- good laboratory facilities,
- good laboratory practices and procedures,
- proper use of safety equipment

To provide protection to:

- the worker
- the co-workers
- the samples
- the environment

## Building installations:

- Windows
- Communication systems
- Laboratory ventilation
- Efficient extraction to the exterior
- Increased storage capacity
- SAS
- Pressure differential

## Equipment:

- Biosafety cabinets
- Exhaust hoods
- Biosafety cabinets with extraction
- Chemical cabinets
- Emergency showers and eye wash
- Hand wash

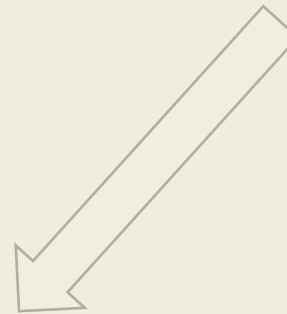
# Results

## To summarize:

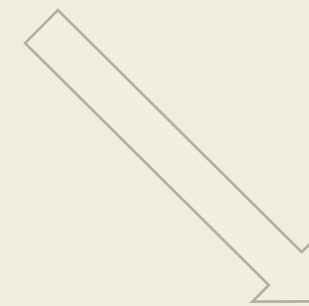
- Better installation
- Better collective protections
- Better interaction
- Increased storage capacity



## Laboratory safety improvements



Better working conditions



IBISA accreditations:

- Biobank label quality:
  - ✓ Management quality system
  - ✓ ISO 20387 Certification
- Analytical platform label quality

# Discussion and Conclusions

The move to the Nouveau Centre was a great opportunity for improving laboratory working conditions thanks to modern laboratories, new equipment and significantly increased storage capacity for samples. It was a challenging and sometimes difficult time for the teams involved, with many issues to deal with. There are still some issues to be resolved, but we will soon be able to enjoy excellent laboratory working conditions and superior laboratory safety in a great working environment that far exceeds that which we had in the previous buildings.

Not forgetting the opportunity to apply for accreditations!

## **Acknowledgements**

IARC working groups involved in the NC projects

Laboratory workers

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WHO