# Biobanking in NE Mexico for biomedical research and clinical needs. 

Rodríguez-Palacios $\mathrm{R}^{1}$, Walle-Gloria $\mathrm{NL}^{1}$, and Barrera-Saldaña HA ${ }^{1,2}$.<br>${ }^{1}$ Biochemistry and Biobank Laboratory of Vitagénesis, SA. LANSEIDI-CONACYT at Innbiogem, SC.<br>${ }^{2}$ Schools of Medicine and Biology of UANL. Monterrey, Mexico.

## Background

The advancement of biomedicine demands tools that translate its achievements into services to both the scientific community and the pharma/biotech industry. Biobanks are powerful tools that collect, process, store, manage, and distribute biospecimens and their associated clinical/demographic data to users carrying out studies aimed at causing a real public health impact.

For our laboratory to offer pharma/biotech companies support for their projects with the highest quality possible biospecimens we adopted the Best Biobanking Practices from ISBER (https://www.isber.org/).

## Methods

As a result of the pandemics, great effort has been dedicated to help the health ecosystem through a diagnostic service for SARS CoV-2 (by RT-PCR). Emphasis was put on proper sample collection, preanalytical characterization, and storage in ultra-low freezers. Their pre-analytical characterization included determining yield and purity by spectrophotometry using the NanoDrop ${ }^{\text {TM }} 2000$ (Thermo-Fisher. Mexico City, Mexico).

## Results

We biobanked and supplied to internal (our Genetics laboratory) and external (validation protocols of pharma/biotech international companies) clients almost 2,000 RNA samples. Given the preanalytical qualification of the biospecimens, they performed satisfactorily for our clients' diagnostic and innovation protocols needs.

## Conclusions

The biobanking services provided to both our diagnostic laboratory and to pharma/biotech companies that contracted our services delivered research materials of the highest quality. Being a private biobank recognized now nationally and internationally by public and private institutions has allowed us to participate in projects evaluating innovative diagnostics methods and devices.

