



Obtaining lung tissue to understand the pulmonary disposition of drugs



BeCYTES
BIOTECHNOLOGIES

1. Introduction

The availability of lung tissue for research has allowed the characterization of specific lung markers that have enabled researchers to gain valuable insights into drug-target interactions, drug delivery systems, and personalized medicine approaches for respiratory diseases.

Moreover, the utilization of tissue for *in-vitro* modeling has successfully tackled ethical and logistical challenges, paving the way for the exploration of new techniques and models.

BeCyttes Biotechnologies is a biotech company that specializes in tissue procurement, cell isolation, and in vitro cell solutions for the global research community.



Extensive network



Extensive donor information



Possibility to customize tissue procedures

2. Goal

The objective of this project is to develop a hospital network to regularly access to human lung biospecimens to investigate whether the expression of specific lung markers has an impact on the disposition of drugs within the lungs.

3. Methodology

1. The project has been co-designed between the project promoter and BeCyttes involving access to the following samples.

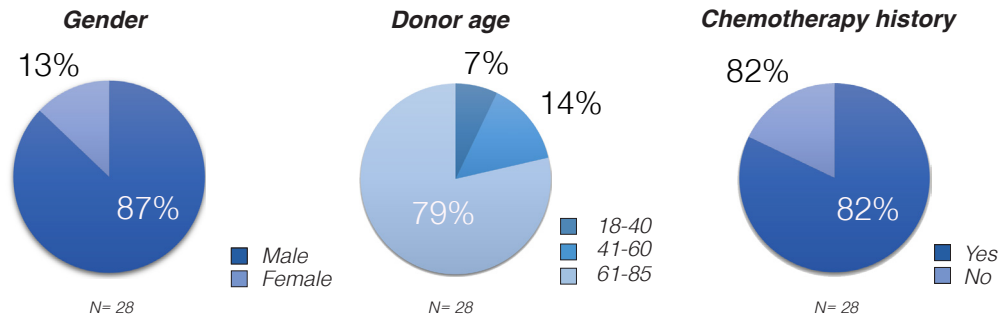
The project involves the acquisition of the following biospecimens from the same donor:

- Not adjacent tissue (NAT)
 - Blood
 - Tumoral Tissue
2. The project presented by BeCyttes and has all the required approvals.
 3. The sample criteria are detailed in the following information:
 - The project inclusion criteria is focused on donors undergoing lobectomies for cancer reasons between 18 | 75 years old. Patients with virology (HCV+, HBV+, HIV+ and acute infections of EBV or CMV) have been excluded from the project.
 - The following information has been recorded: donor demographics description (gender, age), habits, chemotherapy or other treatments, cancer stage, and cancer location.

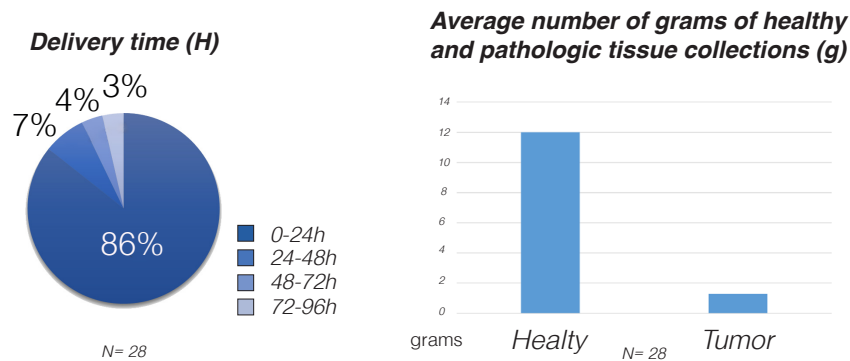
4. Results obtained

Based on the client's criteria, a total of 100 tissue alerts were obtained from 02/05/22 to 21/06/23. Following a thorough evaluation, the client accepted 30 of these alerts for their research purposes. This selective process ensures that the chosen cases align closely with the client's specific requirements and objectives.

Donor demographics



Processing Results



5. Ethics

BeCytes Biotechnologies complies with all ethical standards and regulations applicable to the acquisition, handling, and supply of human and animal biological products for basic research carried out in respecting fundamental rights for the human body.

6. Conclusions

BeCytes Biotechnologies have successfully developed a tailored network that ensures a continuous supply of fresh lung tissue to researchers, providing them with a sustainable source of viable tissue for conducting their research experiments.

CONTACT DETAILS

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