

Taísa Domingues Bernardes Silva (PhD student)^{1,2}, Héilton Spíndola Antunes², Camila Brandão Lobo², Gabriela de Assis Ramos², Eliana Abdelhay¹, Renata Binato¹

¹Stem cell laboratory of the bone marrow transplant center – INCA; ²Clinical research – INCA

INTRODUCTION

Hematopoietic stem cell transplantation (HSCT)



Indication →

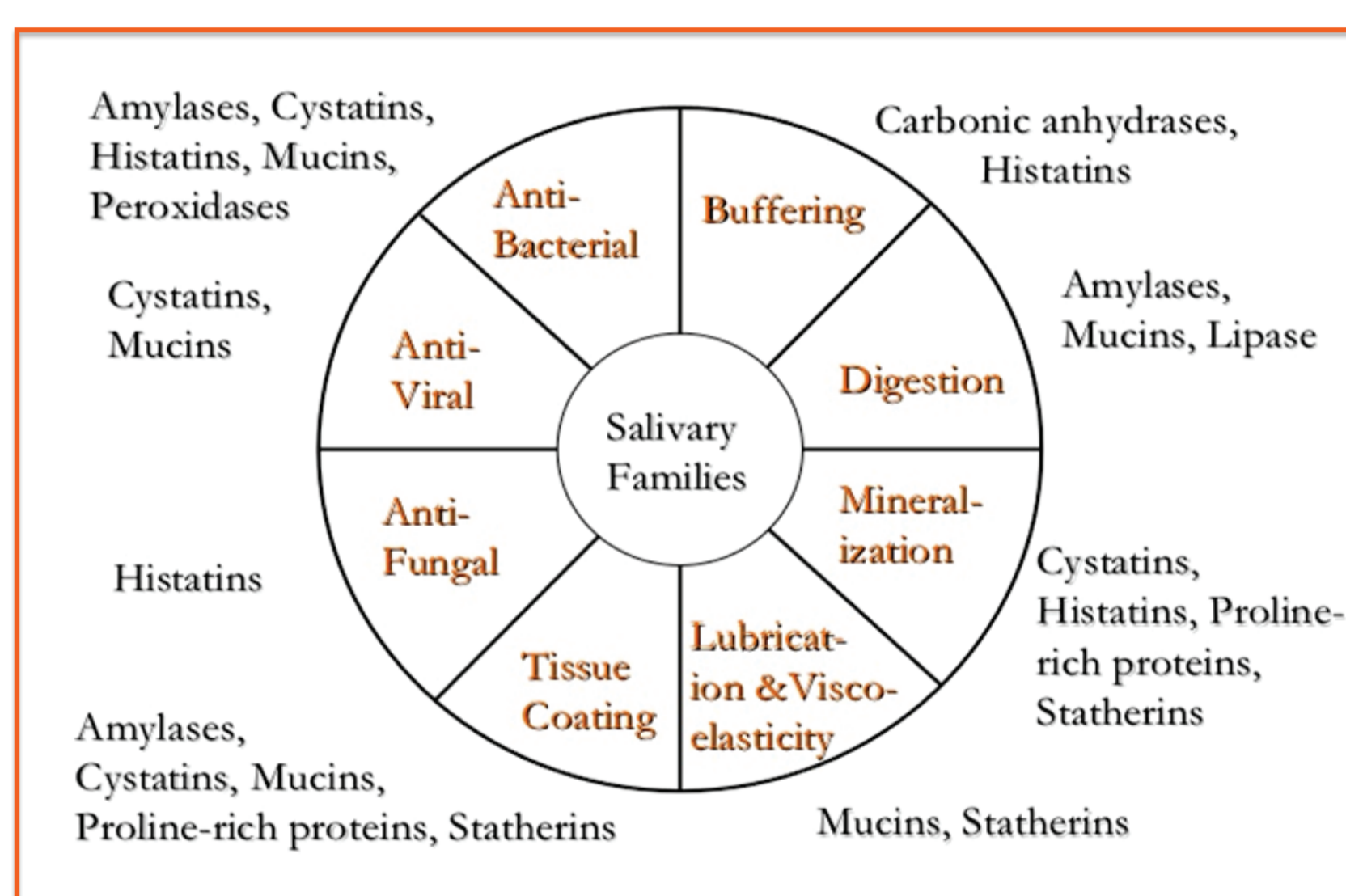
- Malignant and nonmalignant hematological diseases;
- Myelodysplastic syndrome;
- Immunodeficiencies;
- Some solid tumors.

Conditioning → Chemotherapy and/or Radiotherapy

Complications →

- Infections;
- Bleeding;
- Toxicity;
- Relapse;
- Secondary malignancy;
- **GVHD**

Is still the main and most serious complication after transplantation; it is the main cause of "non-relapse" mortality after HSCT.



Homeostasis in the oral cavity is maintained by a complex network of innate and adaptive immune proteins and normal oral flora.

OBJECTIVES

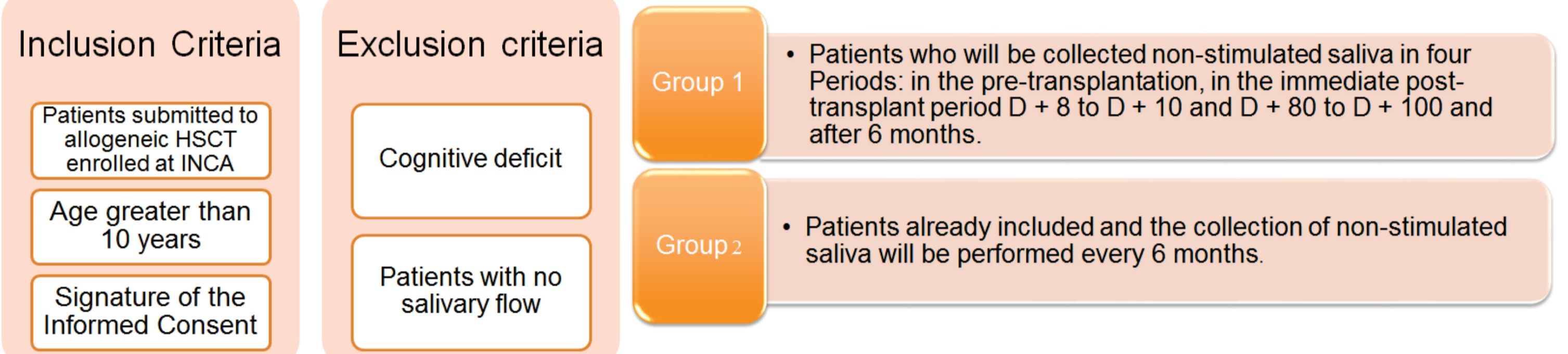
The diagnosis and prognosis of GVHD depend almost entirely on the presence of clinical signs, as there are no laboratory tests to predict the risk of developing GVHD. Thus, in order to investigate salivary changes, the present study aims to evaluate the expression profile of salivary proteins in patients undergoing allogeneic HSCT and to compare the profile of these proteins in patients who developed GVHD with patients who did not develop the disease after transplantation.

PERSPECTIVES

The collection of saliva, besides being a non-invasive and easily performed procedure, is an important way to identify a possible biomarker. Therefore, we expected through proteomic analysis find potential biomarkers in saliva that could predict risk of developing GVHD.

METHODOLOGY

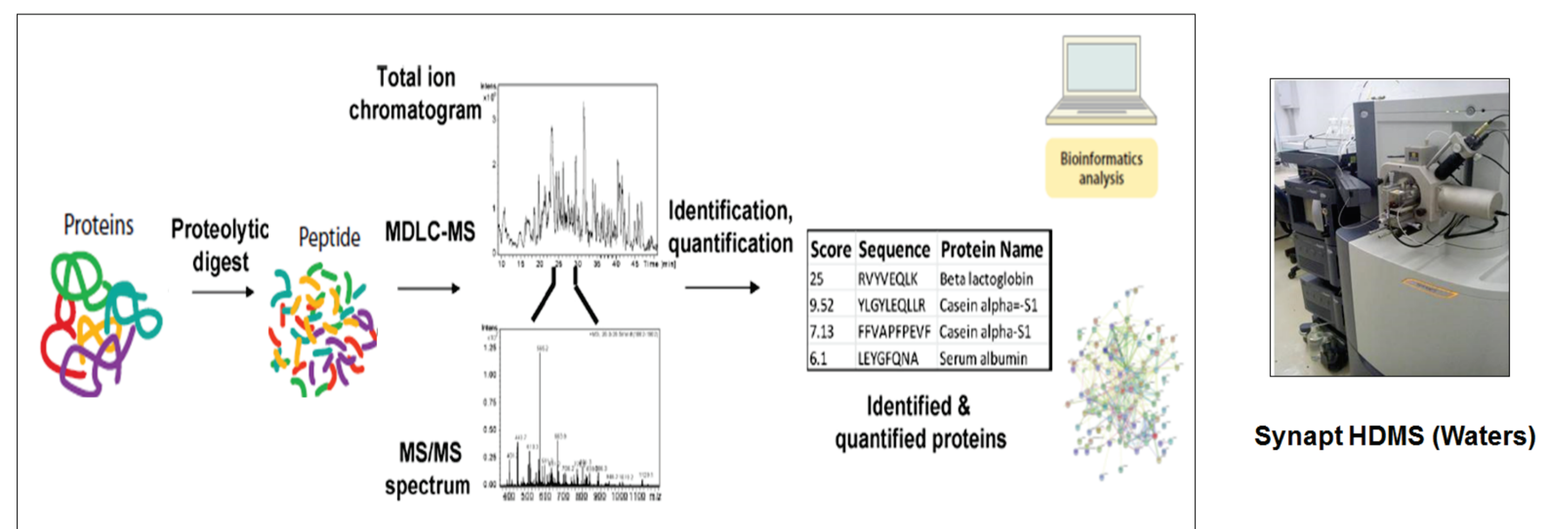
- ❖ Longitudinal study;
- ❖ This study is a branch of a larger project that began in 2012 with the inclusion of 74 patients by November 2016;
- ❖ Expected to include 150 patients until March 2019.



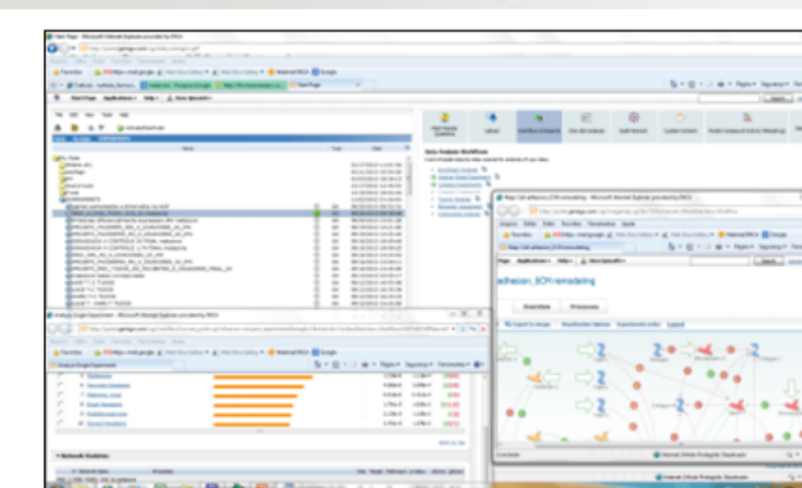
Patients' saliva



Multidimensional liquid chromatography (MDLC) LC-MS^E Label-Free 2D



MetaCore™



Supported by:



Projeto Gráfico: Setor de Edição e Informação Técnico-Científica / INCA