2018 HIGHLIGHTS

BIOBANCO-IMM
CENTRO ACADÉMICO DE MEDICINA DE LISBOA

RATIONALE

The Biobanco-iMM Centro Académico de Medicina de Lisboa (CAML) was created in 2012, and since then it has received, processed and stored a wide variety of clinically annotated biological samples, donated voluntarily, and aiming at foster biomedical research.

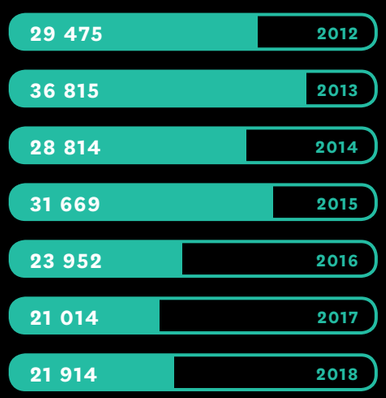
Currently with thousands of human biospecimens, including blood, serum, saliva, cerebrospinal fluid and tumor tissue, representative of 60 different human diseases, the Biobanco-iMM CAML is a unique platform to support national and international scientific research, with potential high impact in public health and in advancing patient care.

MAJOR ACHIEVEMENTS IN 2018

- In 2018, we increased 31% the number of new users.
- We implemented a new service, (primary cell culture of human fibroblasts) that helped patients with unknown diagnosis.
- Two new collections: Diabetes and Metabolic Disorders.
- Hosted a student for a 6 months training period from the Master programme in Biobanking from Nice University, France.

RESULTS 2018

By the end of 2018 we registered a total of **17 943 DONORS** which represents **193 653 SAMPLES** ready to use. The following graph represents the monthly registry of new samples.



TOP 20 COLLECTIONS

Samples are organised in **60 COLLECTIONS**. In 2018, we implemented **2 NEW COLLECTIONS**.

Number of samples per collection:

33 113 EPIREUMA.PT

20 141 NEUROTUMORS

19 180 RHEUMATOID ARTHRITIS

18 806 HEALTHY DONORS

17 578 HEMATOLOGY

14 992 MOVEMENT DISORDERS

14 842 STROKE

7 032 CIRRHOSIS

6 345 TUMORS

5 439 CARDIOVASCULAR

3 921 HEART FAILURE

3 600 SPONDYLOARTHRITIS

3 541 SJÖGREN SYNDROM

3 104 BONE

2 859 RHEUMATOID BIOMARKERS

2 222 OSTEOARTHRITIS

1 885 CYSTIC FIBROSIS

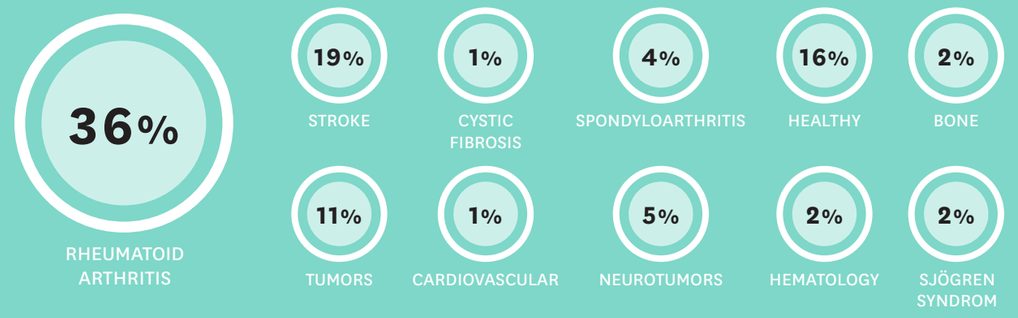
1 622 SYNOVIAL FLUID

1 569 HAPPYBIOBANK

1 422 JUVENILE IDIOPATHIC ARTHRITIS

SAMPLES REQUESTED PER COLLECTION

In 2018, 4 131 samples were requested, which represents an increase of 65% compared with 2017.



BIOBANCO-IMM CAML WORLDWIDE

During the past year, Biobanco-iMM CAML consolidated as a national and international partner. Samples from Biobanco-iMM CAML were shared for different projects across the world.

PARTNERSHIPS

Biobanco-iMM CAML has partnerships with scientific societies, biotechnological and pharmaceutical companies and foundations. The consortium has supported equipment, software, consumables and human resources **allowing the full operational potential** of Biobanco-iMM CAML.

Pfizer · NOVO BANCO · BAYER · Sociedade Portuguesa de Reumatologia · FCT Fundação para a Ciência e a Tecnologia · LIGA PORTUGUESA CONTRA O CANCRO · Fundação Millennium bcp · FUNDAÇÃO CALOUSTE GULBENKIAN

ONGOING PROJECTS

SAMPLE PROCESSING

- 52 collections
- 3 national clinical trials
- 2 international clinical trials
- Quality control

SERVICES PROVIDED

- Nucleic Acid extraction (DNA and RNA)
- Peripheral Blood Mononuclear Cells (PBMC) isolation
- Primary Cell culture of human skin fibroblasts
- Sample processing according to Good Laboratory Practice (GLP) and Standard Operating Procedures (SOP)

SAMPLE STORAGE

- 52 collections
- 3 ongoing national clinical trials
- 2 ongoing international clinical trials
- 1 project with patient-derived xenografts (PDX) of brain tumors

FUTURE PLANS

INNOVATION

- Implementation of new strategic services to the scientific community, including a bank of primary human fibroblasts cell lines and immortalisation of lymphocytes
- Exosomes isolation

TRAINING

- 1st Edition of the course "Biobanks for clinical Research"

OUTREACH

- Increase the scientific output (published papers in collaboration with Biobanco-iMM CAML)
- Continue to bring Biobanco-iMM CAML closer to the public with our "open-days", the Newsletter and Activity Reports
- Launch the campaign "Sponsor one collection, support a cause or a disease"
- Organise and participate in fundraising events

Centro Académico de Medicina de Lisboa

Instituto de Medicina Molecular | João Lobo Antunes

Faculdade de Medicina Lisboa

Centro Hospitalar Lisboa Norte, EPE | Hospital de Santa Maria | Hospital Pulido Valente

CONTACTS

Biobanco-iMM is located at the Egas Moniz building, in the campus of the Lisbon Academic Medical Centre (CAML). The campus hosts the Faculty of Medicine of the University of Lisbon, the Hospital de Santa Maria and the Instituto de Medicina Molecular João Lobo Antunes.

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