

IBMC

Multidisciplinary research institute formed in 1997

Brings together researchers from University of Porto and affiliated hospitals



Produce a unique environment promoting research in the life science

Since 1997 the institute has grown to **47 research groups**, with **over 200 researchers** developing **more than 170 projects** (national and international funds). Currently **hosts over 100 PhD students** in its research groups.

3 Thematic Areas

- Infection and Immunity
- Molecular and Cellular Biology
- Neuroscience

TT model @ IBMC

Based on Biocant model for Technology Transfer

New Technologies:



Development of New Services by scouting the established knowhow within the research groups

Promoting contract research with industry

Support Start-ups and Encouraging Spin-offs by hosting the companies/projects in our labs and offices and providing access to IBMC's technological facilities.

Available Technologies and Services @ IBMC

Available Technologies

Microscopy Technique – Induced Speckle Imaging

*Quantitative technique for visualising microtubule dynamics –
Patented as WO2013162391*

Plasmid KIT for synthetic biology in *Synechocystis* chassis

Animal Models

Several unique models of rats and mice and/or specific knowhow on the maintenance and lifespan increase of deep injured colonies:

Surgical models

Neurodegenerative diseases (Amyloid Diseases including Neuropathies- PAF and Alzheimer, *Peroxisomal disease (RCDP), Demyelinating Disease, Krabbe's, Ageing*)

Infection animal models (*Listeria, Trypanosomas brucei, Mycobacteria, Leishmania*)

Immunological models (Inflammatory bowel disease, Immunodeficiency, Lymphoma, Inflammation)

Hematological diseases (Hemocromatosis)

Services

CGPP – Centro de Genética Preditiva e Preventiva

Medical genetics clinic and genetic counseling, genetic testing for hereditary diseases and training in human genetics for health professionals.

UP3 – Protein Production and Purification Unit

State-of-the-art scientific and technical expertise for the expression, purification and biochemical/biophysical analysis of recombinant proteins.

Animal House

Licensed breeding and experimental facilities holding 2000 cages of rodents (rat and mice) and 2-4 rabbits. Provides care and management of genetically modified animals; Supply of rodents, timed pregnant females, embryos and neonates; Specialized services: Polyclonal antibody production, Rederivation techniques, Vet care and surgical interventions.

Contract research

More info at www.ibmc.up.pt