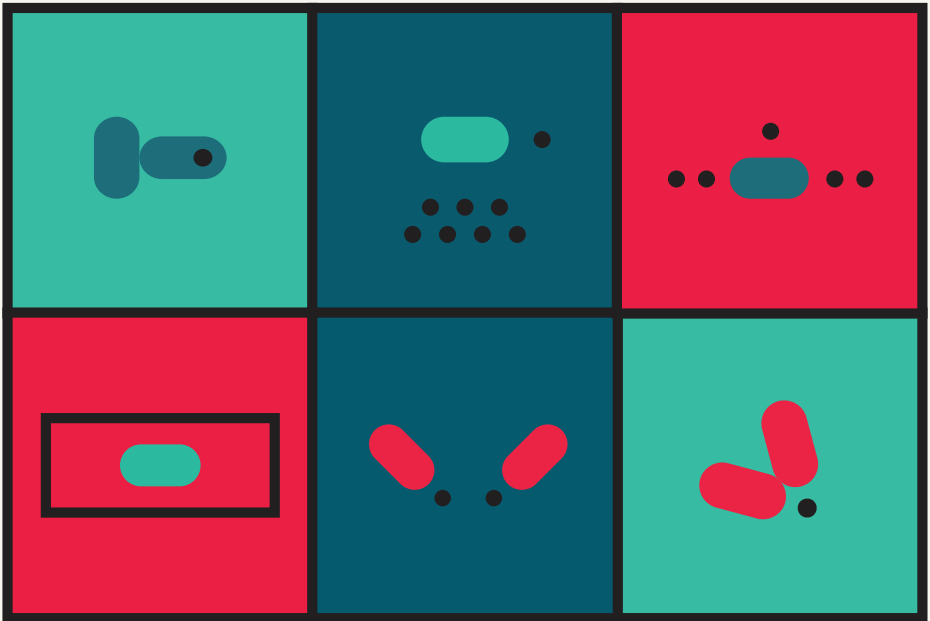


# Consortium for genetically tractable organisms

Providing customized top-quality services in animal research



If animal models—rodents, fly or zebrafish—are a key-part of your research and you require complementary services, conditions to develop a specific experiment, or training, CONGENTO might have the solution you need.

With fully equipped facilities, highly qualified scientists and technicians, CONGENTO offers state of the art conditions to support research with animal models.

# Fruit Fly Services:

Diversified medium production

Stock maintenance & quarantine

Hosting research projects, including fly pushing and technical assistance

Large scale virgins generation

Dedicated BSL2 lab

Production of recombinant flies

Fly dissection, immunostaining and acquisition of high-resolution images

Embryo microinjection

Generation of new mutant/transgenic strains



[fly@congento.org](mailto:fly@congento.org)

# Zebrafish Services:



Colony management, tank leasing and line maintenance (Zebrafish,

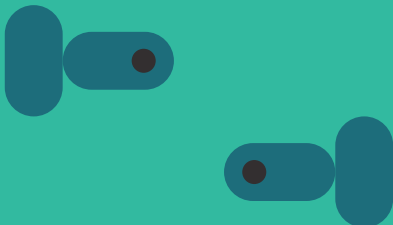
Danionella, Killifish, and Giant Danio)

Hosting research projects, providing animal husbandry and technical assistance

Zebrafish sperm cryopreservation, in vitro fertilization and line revitalization

Drug screening

Generation of new mutant / transgenic / gene edited strains



[zebrafish@congento.org](mailto:zebrafish@congento.org)

# Rodent Services:

Colony management / line maintenance of mouse and rat strains

Hosting research projects, providing animal husbandry and technical assistance

Cryopreservation of mouse germplasm (embryos and sperm)

Mouse Assisted Reproduction: in vitro fertilization; embryo and sperm revitalization; re-derivation; strain rescue

Mouse Germ-Free and Gnotobiology

Generation of new mutant/transgenic strains



# Molecular Biology Services:

Competent bacterial cells

DNA/RNA extraction and integrity analysis

ISH probe cloning and synthesis

Molecular cloning

CRISPR tools

Full transgenic animal projects

Cell culture projects (including CRISPR)

Recombinant proteins

Virus production

Consulting and technical support



# Histopathology Services:

Microtomy, vibrotomy and cryotomy—full service and training

Pathology consultation

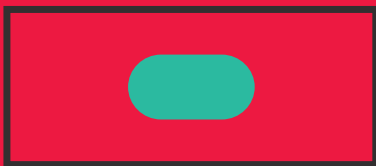
Design and planning of animal studies for morphological phenotyping

Guidance in targeted and diagnostic necropsy procedures

Selection of fit-for-purpose histological and histochemical methods

Histopathological analysis

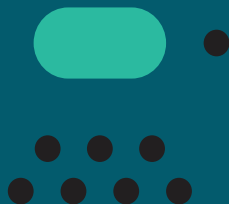
Reporting and capture of publication quality images



# Education & Training:

This is a cornerstone of CONGENTO. We offer regular and ad-hoc training opportunities in all the areas covered by the infrastructure, and we are also keen on customizing training events to address relevant needs.

Bellow you can find the course list





# Laboratory Animal Science training: (according to EU Framework)

## Function A+D:

Carrying out procedures on animals

## Function B:

Designing procedures and projects

## Function C:

Taking care of animals

Introduction to *Drosophila*  
as a Model Organism

Mouse cryopreservation and assisted  
reproduction Techniques

Rodent anesthesia and surgery  
(EU Modules 20, 21, 22)

Necropsy and basic histology techniques

Continuous professional development

CONGENTO is a research infrastructure created by the initiative of four Portuguese biomedical research institutions:

Champalimaud Foundation - CF

Chronic Diseases Research Center - CEDOC

Instituto Gulbenkian de Ciência - IGC

Instituto de Medicina Molecular - IMM

with the AIM of supporting research in genetically modified organisms by providing services, developing new technologies, and offering training opportunities in Laboratory Animal Sciences.

The consortium is included in the Portuguese Roadmap of Research Infrastructures (part of the EU H2020 Research Infrastructure Strategy) and it synergizes technology development and resources across its three focus model organisms:

fruit fly

rodents

zebrafish



Fundação  
Champalimaud



INSTITUTO  
GULBENKIAN  
DE CIÊNCIA



Instituto  
de Medicina  
Molecular

João  
Lobo  
Antunes

**FCT**  
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e a Tecnologia

Lisb@20<sup>20</sup>

PORTUGAL  
2020



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