DMPC is an expertise center of

Universiteit Utrecht | umcg

Scientific partner

InnoSer Innovative Biomedical Services

dmpc dutch molecular pathology center

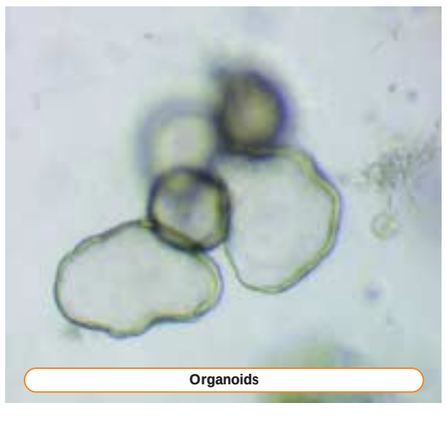
Dutch Molecular Pathology Centre

Facilitation of advanced, qualified and standardized molecular and pathological analysis of experimental animals for research of academic and industrial parties.

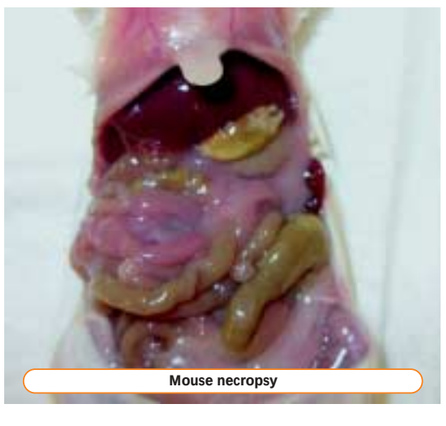
Zebrafish necropsy and processing

Full necropsy service

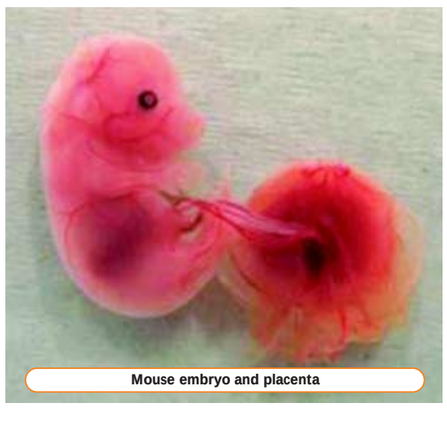
- Embryos and placenta
- Mice
- Rats
- Zebrafish



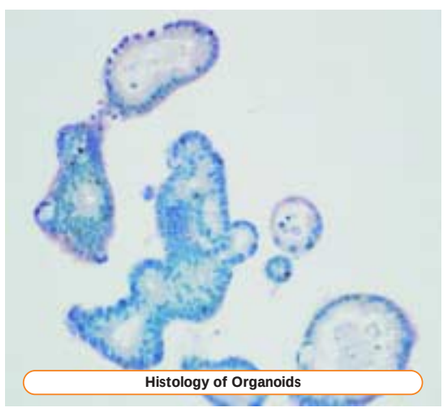
Organoids



Mouse necropsy



Mouse embryo and placenta



Histology of Organoids

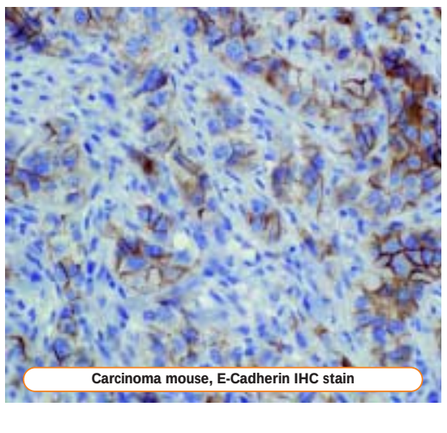
Zebrafish histology

Histology of mouse embryos and fetuses

Histologic analysis of different laboratory species and different life cycle stages

- Organoids
- Zebrafish
- Embryos and placentas
- Rodent tissues

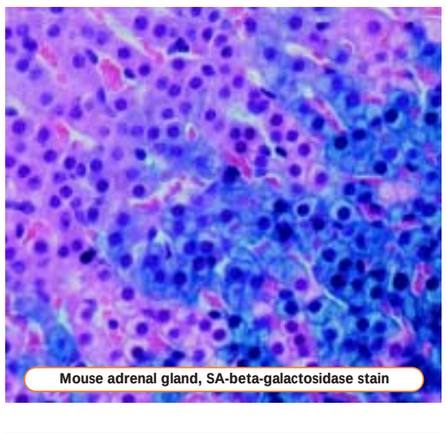
Histology: hepatocellular carcinoma (mouse)



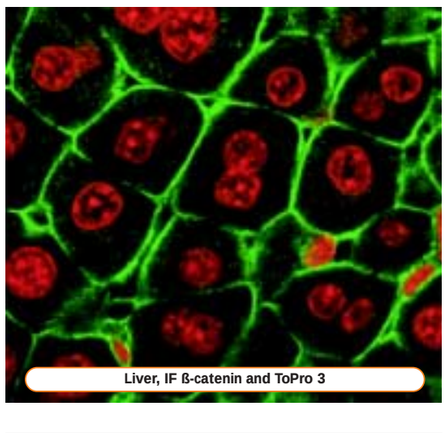
Carcinoma mouse, E-Cadherin IHC stain

Additional staining

Immunohistochemistry, Immunofluorescence, Histochemistry. We offer a variety of different stains (e.g. proliferation markers, apoptosis markers, cell cycle markers, differentiation markers and inflammatory cell markers).



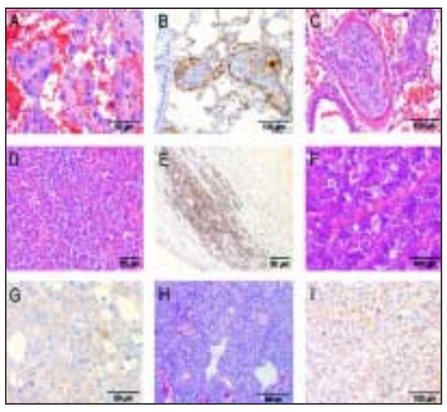
Mouse adrenal gland, SA-beta-galactosidase stain

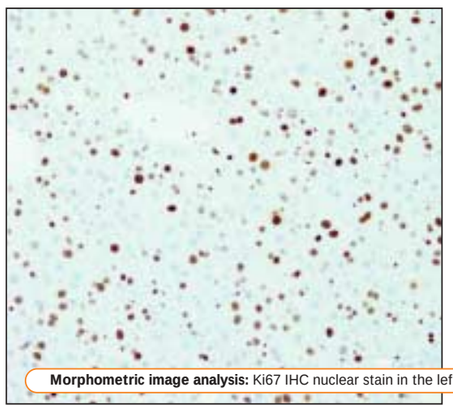


Liver, IF ß-catenin and ToPro 3

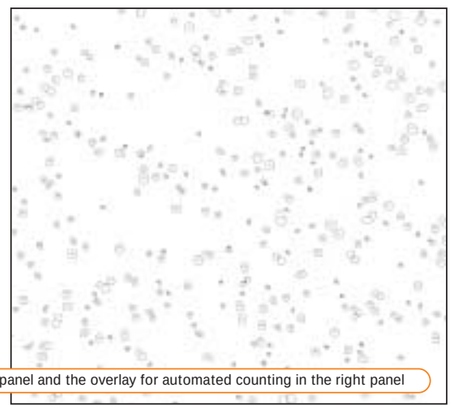
Analysis

Scoring data will be provided in excel format, accompanied by a written report with descriptive information, interpretation of the data, recommendations and representative images.





Morphometric image analysis: Ki67 IHC nuclear stain in the left panel and the overlay for automated counting in the right panel



Contact DMPC
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Our expertise

- Phenotyping of transgenic animals
- Models of cancer
- Models of aging
- Models of regenerative medicine and wound healing
- Models of diabetes/obesity/fatty liver disease
- Models of cardiovascular diseases

- Models of neurodegenerative diseases (e.g. Alzheimer)
- Models of immune mediated diseases (e.g. ulcerative colitis)
- Characterization of tissue and tumor organoids
- Stem cell transplantation
- Drug testing

- Biocompatibility testing
- Viral infections (e.g. Influenza)
- Bacterial infections (e.g. Mycobacteria)
- Parasitic infection (e.g. Trichinella)
- Developmental disorders
- Organ pathology (43 different organs)

- Morphometric analysis with ImageJ / Fiji

Training in mouse necropsy techniques:
For our collaborators, we organize practical workshops on mouse necropsy techniques.