

Insight Biotechnology Tissue Bank Repository

Insight Biotechnology has access to an extremely large tissue bank repository, with more than 80,000 high quality tissue blocks, focussing on a wide array of tumours, and normal adjacent tissues from most organs of human body, as well as tissues from embryo, animals and plants.

We also keep correlated collections of frozen samples and blood samples, allowing follow up experiments, such as RNA and DNA extraction, and genomics / pharmacogenomics studies. Tissue microarrays, generated using the tissue collection as well as customer's tissues can be used in conjunction with Affymetrix®, Illumina®, and Agilent systems at our research facilities. Our team of scientists is happy to discuss your experiments so please enquire for details.



Tissue Repository



FFPE Slides



FFPE Blocks



L.N. Tank



- 80 °C Freezers

Insight Biotechnology Tissue Procurement

Oncology: breast, pancreas, prostate, uterus, ovary, glioblastoma, melanoma, head and neck, bladder, liver, kidney, lung, thyroid etc.

Metabolic: Diabetic pancreas, human pancreatic islets, adipose tissue, adipocytes, primary human skeletal muscle cells, human hepatocytes, skeletal muscle, proximal tubular cells.

Autoimmune disorders: MS, Rheumatoid Arthritis, IBD (ileum, colon).

CNS / Neurodegenerative: Tissue, CSF and plasma/serum from Alzheimer's, Parkinson's, schizophrenia, Huntington's disease, brain tumours, DRGs, brain capillary endothelial cells, astrocytes, glial cells.

Inflammation: osteoarthritis, RA (synovial fluid, synovium, cartilage), asthma, COPD, psoriatic skin, nasal polyps, tonsils, spleen, COPD lung tissue, sputum.

Cardiovascular: PAOD, heart muscle, valves, HUVECs.

Blood Disorders: FFPE tissue/ bone marrow and bloods from various leukaemia's and multiple myeloma.

Control Samples: (non-diseased): normal adjacent tissues to many of the tissues named above, human skin (eg abdominal, breast, scalp, temporal skin), plucked hair. We also offer the full FDA or EMEA panel for cross reactivity studies. If you are looking to outsource tissue cross reactivity studies, in any species, GLP or non-GLP then please enquire.

Primary Cells / Cell lines: Primary keratinocytes, dermal microvascular endothelial cells, and skin adipocytes, human mesenchymal stem cells and human bone marrow, human placenta and hair follicles for isolation of stem cells.

Insight Biotechnology Tissue Procurement

Brain tissue

Prefrontal Cortex (BA 10)
Orbital Frontal Cortex (BA 11)
Anterior Cingulate Cortex (BA 24)
Insular Cortex (INS)
Caudate Nucleus (Cd)
Nucleus Accumbens (NA)
Corpus Callosum (CC)
Nucleus Basalis (NB Ch4)
Temporal Cortex Superior (BA 22)
Temporal Cortex Medial (BA 21)
Temporal Cortex Inferior (BA 20)
Entorhinal Cortex (BA 28)
Putamen (Pt)
Globus Pallidus (GP)
Hypothalamus (Hyp)
Amygdala (AMG)
Hippocampus (Hipp)
Thalamus, anterior and Mediodorsal Nuclei (Th)
Subthalamic Nucleus (ST)
Substantia Nigra, pars lateralis (SN)
Motor Cortex (BA4 M1)
Parietal Cortex, Superior (BA5)
Inferior Parietal Lobule (BA40)
Auditory Cortex (A1 BA42)
Parietal Cortex, Posterior (BA6)
Posterior Cingulate Cortex (BA23)
Pulvinar (Pulv)
Posterior White Matter (WM-P)
Primary Visual Cortex (BA17 V1)
Cerebellar Hemisphere (Cere-H)
Cerebellar Vermis (Cere-V)
Dorsal Raphe (DR B7)
Locus Ceruleus (LC A6)
Spinal Cord (C1)
Temporal Pole (BR38 TP)
Olfactory bulb
Anterior Olfactory Nucleus (AON)
Choroid Plexus

* RNA and DNA can be provided from these regions.

* A range of diseased brain tissue can also be provided, please enquire for details.

Insight Biotechnology Tissue Procurement

Cancer Tissues with Short Cold (Post -surgical) Ischemia Times

Following tumour resection, approximately 25 to 30% of genes and proteins are differentially expressed within the first 30 minutes of death. To ensure that tissue samples provide an accurate physiological model, short ischemia times between resection and fixation are extremely important.

Insight Biotechnology can provide a variety of tissues with documented extremely short ischemia times of <8 minutes, on average, between resection and fixation.

These tissues include:

Lung, prostate and colon, frozen and fixed tissues. Similarly, serum, plasma and urine samples from donors with lung, prostate, colon and breast cancer, which have been instantly cooled to 4-8 °C at the collection site are available.

No additives are used to ensure native tissue composition, which can be used for all technology applications. Blood derived samples are maintained refrigerated and are processed and stored at – 80 °C within 4 hours after venous puncture.

Familial and Population-based Breast, Ovarian & Prostate Cancer Cohorts

Insight Biotechnology can now provide highly characterised breast, prostate and ovarian cancer tissues from a cohort of patients from “high risk” cancer families. Tissues can be obtained from identifiable germline genetic faults. For example [BRCA1](#), [BRCA2](#), [p53](#), [ATM](#), or some as yet unknown genetic mutations(s) linked to cancers being present in family members.

Frozen or FFPE sections on slides are available, complete with characterisation of key mutations. These samples have survival outcome linked to treatment if required. We also have access to a large fresh frozen and FFPE archival collection of normal breast and ovaries following prophylactic removal after routine surveillance advise.