Human samples

**Bladder**


**Bone marrow aspirates**


**Decidual tissue**


**Gut**


**Embryoid body**


**Mucosa**


**Nasal tissue**


**Placenta**


**Skin**


**Stool**


**Synovial membrane**

Thymus

**Isolation of thymic stromal cells and thymic epithelial cells:**


Tonsil

**Isolation of tonsil mononuclear cells:**


Tumor

**Isolation of epithelial and mesenchymal cells from ovarian tumor:**


**Isolation of liver-infiltrating lymphocytes from hepatocellular carcinoma:**


**Preparation of nuclei suspensions from oral verrucous carcinoma:**


**RNA extraction from renal tumor:**


**RNA extraction from ovarian tumor:**


**Vaginal tissue**

**Isolation of CD4^+^ T cells and macrophages:**


Mouse samples

Brain

**Isolation of mononuclear cells:**


**Protein extraction:**


Colon

**Determination of *Salmonella typhimurium* bacterial loads:**


Ear

**DNA extraction:**


Embryoid body

**Dissociation of embryoid bodies:**


Heart

**Isolation of dendritic cells:**


Kidney

**Isolation of tubules:**

Determination of *Staphylococcus aureus* bacterial loads:


Liver

Isolation of leukocytes:


Determination of *Listeria monocytogenes* bacterial loads:

Determination of *Staphylococcus aureus* bacterial loads:

Determination of *Citrobacter rodentium* bacterial loads:
Ota, N. *et al.* (2011) IL-22 bridges the lymphotoxic pathway with the maintenance of colonic lymphoid structures during infection with *Citrobacter rodentium*. Nat. Immunol. doi:10.1038/ni.2089

Protein extraction:

Lung

Isolation of myeloid-derived suppressor cells:

Isolation of Influenza A virus:

Determination of Respiratory Syncytial Virus PFUs:

Isolation of CD3+ T cells, CD4+ T cells, and CD8+ T cells:


Isolation of CD4+CD25+ T cells:

Isolation of neutrophils and macrophages:


Isolation of dendritic cells:


Isolation of fibroblasts:

Isolation of CD8+IFN-γ+ T cells:

Determination of M. tuberculosis bacterial loads:

RNA extraction:

Protein extraction:


Lymph nodes
CD4+ and CD8+ T cells:

RNA extraction:

Mucosa
Isolation of dendritic cells:

Muscle tissue
RNA extraction:

Skin
RNA extraction:

Spinal cord
Isolation of bone marrow-derived stem cells:

Isolation of mononuclear cells:

Isolation of spinal cord cells:

Spleen
Isolation of Influenza A virus:

Isolation of CD3+ T cells, CD4+ T cells, and CD8+ T cells:
Isolation of splenocytes:


Determination of Listeria monocytogenes bacterial loads:

RNA extraction:

Protein extraction:

Thymus
Isolation of thymic epithelial cells:

Protein extraction:

RNA extraction:

Tumor
Isolation of mononuclear cells from pancreatic tumor:

Isolation of CD8a+ T cells from melanoma:

Isolation of CD8a+ tumor-infiltrating lymphocytes from AK7 tumor:

Isolation of myeloid-derived suppressor cells from lung tumor:

Isolation of CD8+ T cells from hepatic tumor:


Isolation of CD8+ T cells from melanoma:

Isolation of CD8a+ tumor-infiltrating lymphocytes from AK7 tumor:

Isolation of CD8a+ tumor-infiltrating lymphocytes from AK7 tumor:

Isolation of dendritic cells from subcutaneous tumor:

Isolation of CD8+, CD4+FoxP3- and CD4+FoxP3+ T cells from subcutaneous tumor:

Isolation of myeloid-derived suppressor cells from lung tumor:

Isolation of CD8+ T cells from hepatic tumor:

Protein extraction from renal tumor:

Protein extraction from mammary tumor:

Vaginal tissue
Isolation of CD4+ T cells and macrophages:
**Rat samples**

**Brain**

**RNA extraction:**

**Lung**

**Determination of Mycobacterium tuberculosis bacterial loads:**

**Spleen**

**Isolation of mononuclear cells:**

**Determination of doxorubicin in spleen homogenates:**

**Thymus**

**Isolation of mononuclear cells:**

**Trachea**

**RNA extraction:**

**Other samples**

**Camel liver**

**RNA extraction:**

**Dam liver**

**RNA extraction:**

**Hamster lung**

**Isolation of lymphocytes:**

**Hamster spleen**

**Isolation of lymphocytes:**

**Nematode**

**RNA extraction:**

**Tick**

**DNA extraction:**

**Tomato**

**Nicotine-extraction from tomato homogenates:**

**DNA extraction:**
Wasp

RNA extraction:

*Experiments were performed with the precursor of the gentleMACS Dissociator Instruments, called Dispomix®, that is no longer available. The gentleMACS Dissociator Instruments cover all features the Dispomix Instrument was capable of.

Last update: January 2012