

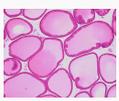
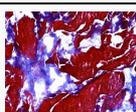
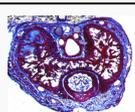
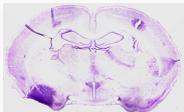
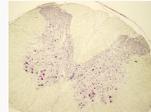
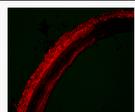
## Histomorphology

### Objectives:

In addition to organ weighing, the morphological examination of tissue sections gives additional information on the impact of a treatment on the morphology of a tissue.

### Summarized methodology:

General or specific stains can be applied on various types of tissue and on paraffin sections or cryosections. The stain will be chosen according to the target to be evidenced and the nature of the sample.

Stain	Common use	Representative images	
<b>Haematoxylin / Eosin</b>	General staining for morphology assessment Blue nuclei / pink cytoplasm		
<b>Masson's trichrome stain</b>	Distinction of muscle fibers (red) and collagen fibers (blue/ green)		
<b>Cresyl violet</b>	Stain used for nervous tissue: Nissl stain coloring cell bodies (both neurons and glia) in a brilliant Violet.		
<b>Sirius Red</b>	Detection of collagen fibers under polarized light microscopy		
<b>Oil Red O</b>	Fat-soluble dye used for lipids staining		
<b>Orcein stain</b>	Specific staining of elastic fibers (purple)		
<b>TTC</b>	Reduced to a red fat soluble compound in normal tissues while staying uncoloured in ischemic tissues		

### Endpoints:

- Qualitative observation of the structure of the tissue.
- Could be completed by histomorphometric measurements ([cf. Links to applicable experimental skills : Histomorphology](#)).

**NB:** Pelvipharm will gladly study the feasibility of performing other staining to meet its client's needs.

### Related Pelvipharm bibliography:

- Behr-Roussel, D. et al. **J Sex Med** (2006) : 3(4):596-603  
Behr-Roussel, D. et al. **Atherosclerosis** (2002) : 162:355-362

### Links to applicable therapeutic areas / targeted disorders:

#### - Sexual pharmacology

- \* ED (Erectile Dysfunction)
- \* Ejaculatory Disorders
- \* FSD (Female Sexual Dysfunction)

#### - Lower urinary tract

- \* BPH (Benign prostatic Hyperplasia)
- \* SUI (Stress Urinary Incontinence)
- \* SCI (Spinal Cord Injury)
- \* NDO (Neurogenic Detrusor Overactivity)
- \* OAB (Overactive Bladder)
- \* IC (Interstitial Cystitis)

#### - Cardiovascular and metabolism pharmacology

- \* Hypertension
- \* Metabolic syndrome
- \* Atherosclerosis
- \* Diabetes Mellitus
- \* Myocardial infarction