



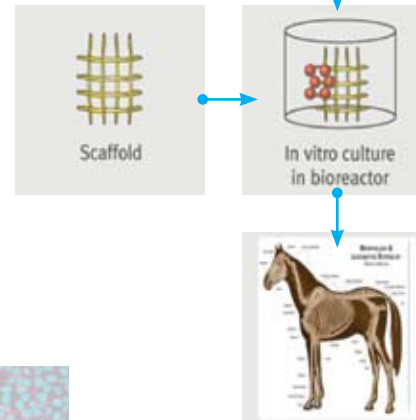
## Research and Future Products of Fat-Stem

Together with different universities in Europe, Fat-Stem is working on the reconstruction of chronic, focal osteochondrial defects of joints in horses and other animals by using autologous stem cells and polymer based scaffolds.

Fat-Stem conducts **clinical veterinary research** on cellular therapies to improve the survival of implants and cell-based products as well as the healing mechanism behind it. Therefore, Fat-Stem works together with different clinics in Europe. Fat-Stem is driven by the increasing demand for innovative cellular veterinarian treatments through publications and intellectual property rights.

## How do our services work?

We offer full support to veterinarian practices in providing our cellular therapy protocols and controlled biological material for a successful treatment.



## How to contact us?

Your veterinarian doctor can contact Fat-Stem to introduce cellular therapy in his practice:

### Please contact:

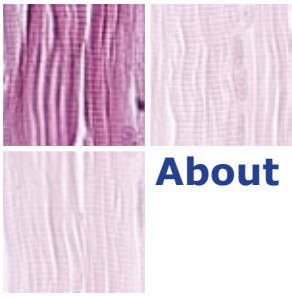
Fat-Stem Central Laboratories  
Contact person: Dr. Guy Wouters  
info@fat-stem.com

# FAT STEM



The veterinary regenerative approach for horses and small animals

[www.fat-stem.com](http://www.fat-stem.com)



## About Fat-Stem

Fat-Stem is a veterinarian service company offering cellular therapies to horses and other animals based on experience, research and new developments in the field of regenerative medicine.

The production of stem cells from different origins under GMP conditions guarantees a professional service towards different veterinarian hospitals and practices.

Fat-Stem is continuously looking for new opportunities in veterinarian cellular therapies like arthritis, chondrodysplasia and dog-diabetes.



## Horse-stem, a successful tendon therapy for horses

Tendon and suspensory ligament injuries occur as a result of acute overloading of the tendons or ligaments. Even more common, these injuries are provoked by degenerative changes through aging and athletic performances.

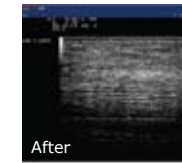
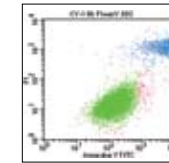
Horse-stem is the result of a European scientific collaboration and the service has been improved to a standard clinical protocol for ligament and tendon injuries.

Stem cells from fat origin are used to repair tendon tissue; in this way, the scarred tissue which is less flexible than the original tendon tissue, can be strongly reduced. So the basic argument for using stem cells to heal tendon injuries is the fact that the mature existing cells in the injured limb may induce these injected stem cells to become new tendons.

The service includes protocols for biopsies, logistic procedures, controlled cell mass production and clinical protocol.

The Horse-Stem service is a three-step process that can be performed in a standing, sedated horse at the barn or stable, which minimizes the transport to a hospital. That also means fewer complications under general anesthesia.

## Horse-Stem procedure



### STEP 1:

The first step is a small incision on the rump, next to the tail head, where a biopsy of fat tissue is taken. The area is then sutured (closed). The fat tissue is then sent to the Fat-Stem laboratory.

### STEP 2:

Upon arrival at the laboratory, the stem cells are isolated, harvested and counted in a well controlled environment. Cells are prepared 'ready for administration' and can be stored for future use.

### STEP 3:

The cells are returned for immediate injection into the affected tendon location. This intralesional injection can be done locally at the barn. It is carried out under sedation, and is usually aided by x-ray or ultrasound to guide the needle to the direct location where the cells are needed.