



## RESEARCH TOPIC CLI23

### Development and validation of an animal model of degenerative meniscus and identification of parameters related to different levels of risk of progression of post-meniscectomy knee osteoarthritis

#### Clinical Unit name

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#### Abstract

The role of meniscal degeneration in knee osteoarthritis (OA) onset and progression is well established. An unsolved problem is the non-surgical treatment of the degenerative meniscal lesions. Giving the absence of a reproducible animal model of the degenerative meniscus we propose to establish and validate an accurate large animal model of degenerative meniscus, as a tool to evaluate new possible solutions, including orthobiologics treatments, capable of modifying and ameliorating the natural history of a degenerative meniscus. Moreover, up to date, there is a complete lack of knowledge on why some patients quickly develop post-meniscectomy OA and other patients are clinically asymptomatic for many years. Therefore, the project will focus on the identification of clinical, morphological, radiological parameters and transcriptomic markers linked to different degrees of risk of OA progression after meniscectomy.

#### Scientific references

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### **Type of contract**

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