

**Monday September 26, 2016 - 9h45**  
Conference room AI 1153 (\*) - EPFL - Lausanne

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## **MACROPHAGES DURING SKELETAL MUSCLE REGENERATION : ROLE OF ROS & SECRETED MOLECULES**

**Host:** Prof. Johan Auwerx

### **Abstract:**

Skeletal muscle has the remarkable ability to regenerate following injury. This property is mainly due to a muscle stem cell (MuSC) population known as satellite cells. Among cell types observed within the injured muscle are macrophages, described to modulate the regenerative process. This is notably the case of macrophages that sequentially display distinct phenotypes. First, damage-associated macrophages clean cellular debris and release pro-inflammatory mediators that stimulate MuSC proliferation. These macrophages then skew their phenotype to restorative macrophages that secreted anti-inflammatory cytokines and molecules that support myogenic cell differentiation and fusion. In this seminar, I will present new macrophage-derived candidates involved in the control of skeletal muscle regeneration.

(\*) IMPORTANT NOTICE: All external participants have to pass through SV Reception/Welcome Desk to be able to access to AI 1153.

Contact person to call at arrival at SV Reception Desk: Johan Auwerx 30951 /Administrative Assistant: 39522.

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