CDB SEMINAR

Speaker: Margaret Buckingham

< Department of Developmental Biology, Pasteur Institute, Paris>

Title: **"Genes that regulate the formation and regeneration of skeletal muscle"**

Date: Wednesday, November 26
Time: 15:30 P.M.～16:30 P.M.
Place: 7th floor Conference Room, CDB

Summary:

The determination and differentiation of skeletal muscle depends upon myogenic regulatory factors of the MyoD family. However Pax genes are also very important. Pax3 in the embryo plays a key role and the orthologue of Pax3, Pax7, is required for the presence of skeletal muscle precursor cells in many adult muscles. The relative roles of Pax3 and Pax7 will be discussed in this myogenic context. The genetic manipulation in the mouse of the Pax3 locus, as well as that of Myf5, gives new insight into the function of these genes in the upstream regulatory events which lead to skeletal myogenesis. Understanding how skeletal muscle cells are specified is central to the study of stem cells which may contribute to muscle regeneration. Among a number of candidates, mesoangioblasts, derived from blood vessels, are a promising source of such cells.

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