CDB SEMINAR

Speaker: **Chunyi Li**

<AgResearch Ltd, Invermay Agricultural Centre>

Title: "Deer antler regeneration -- A system which allows full regeneration of mammalian appendages"

Date:	Tuesday, February 22
Time:	14:00 P.M.～ 15:00 P.M.
Place:	1F Auditorium of Building C, CDB

Summary:

Annual antler renewal is an example of epimorphic regeneration and offers a unique opportunity to explore how nature has solved the problem of mammalian appendage regeneration. However, a detailed study of this unique process thus far has been lacking. In the past a few years, we have taken different approaches to investigate this unique phenomenon. These approaches include morphology, histology, immunohistochemistry, *in situ* hybridisation and *in vitro* study, and tissue deletion and transplantation. Through these studies we have established and tested the following two hypotheses: 1) Antler regeneration is not a blastema-based process. 2) The growth centres in a regenerating antler are built up through the proliferation and differentiation of cells in the distal periosteum/perichondrium of a pedicle stump. Therefore, antler regeneration may be a stem cell-based process.

Host： **Kiyokazu Agata** ＜Evolutionary Regeneration Biology , CDB＞

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