

異分野融合セミナー Transdisciplinary Research Seminar

The RUNX2 paradox & p53: Cell Growth Suppressor or Oncogene?

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Time: 8 February, 10:00

Format: Online (via Zoom)

The runt-homology domain transcription factor RUNX2 is a growth suppressor in osteoblasts that is elevated in quiescent or differentiated cells. Furthermore, when the RUNX2 is deleted, cells proliferate faster and are less prone to becoming quiescent. However, in osteosarcoma cells RUNX2 is often highly expressed. The latter represents the RUNX2 paradox in osteosarcoma. Many osteosarcoma cell types also exhibit loss of the tumor suppressor protein p53 (TP53). The talk will discuss how RUNX2 controls cell growth in osteoblasts and how p53 suppresses RUNX2. We will also discuss the role of RUNX2 in bookmarking of mitotic chromosomes, mitotic transfer of RUNX2 mRNA into daughter cells and RUNX2 control of metastasis related genes.

Registration: <https://forms.gle/Xi8ukYvoWryewUYi6>

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