Laboratory of Protein Science Seminar

Calcium-binding to L-plastin and regulation of actin-bundling: development of new anti-metastasis drugs?

L-plastin is normally only expressed in white blood cells. It is a multi-domain protein made up of EF-hand motifs and CH domains, that is responsible for actin-bundling. When solid tumour cells become metastatic, they also start to express high levels of L-plastin, and this allows these cells to move through the body and invade other tissues to establish new tumours. The actin-bundling activity of L-plastin is regulated by the two calcium-binding EF-hand motifs of the protein. In this talk a molecular level structural explanation for this regulatory mechanism will be offered. Moreover I will explain why this part of L-plastin may be a good target for the development of future anti-cancer metastasis compounds.

2018. **8.** 3 **Fri.**

Time / 16:30~17:30

Place / Room N308, Main Building 3F

School of Science, HOKKAIDO UNIV.

Special Guest Prof. for HSI



Speaker

Bio-NMR Centre and Metabolomics Research Centre University of Calgary, CANADA

Professor Hans J. VOGEL



Laboratory of Protein Science Seminar Antimicrobial peptides, biosynthesis and altered chemistries

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