

2026 **6/15** Monday

**16:00 – 17:00**

Language English

Place 1F Lecture Room, ITbM

**Prof. Dr. Grégory Vert**



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## Ubiquitin-mediated regulation of cell signaling and endocytosis in plants

Ubiquitination is a post-translational modification essential for the regulation of eukaryotic proteins, having an impact on protein fate, function, localization or activity. What originally appeared to be a simple system to regulate protein turnover by the 26S proteasome is now known to be the most intricate regulatory process cells have evolved. Ubiquitin can be arranged in countless chain assemblies, and here I will present our work deconstructing lysine(K)63-linked polyubiquitin chains, highlighting its major contribution in the control of plasma membrane protein dynamics and endocytosis. In particular, I will highlight how K63 polyubiquitination has been coopted to regulate plant metal nutrition through a complex interplay of ubiquitin modifications and E3 ubiquitin ligases, and showcase how different ubiquitin-like protein modifications together allow the fine tuning of steroid hormone signaling in plants.

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