

---

開催日時： **2017年10月11日 16:30 ~ 17:30**

---

開催場所： 2号館2階大講義室

---

講師： Thomas B. Kornberg (マックスプランクセンター共催)

---

所属： Professor, Cardiovascular Research Institute, University of California, San Francisco

---

演題： Contact-dependent cell-cell signaling essential for development and cancer

---

概要： Development creates a vast array of forms and patterns with elegant economy, using a small vocabulary of pattern-generating proteins such as BMPs, FGFs, EGFs, Wnts, and Hhs in similar ways in many different contexts. Much theoretical and experimental work has investigated the mechanisms that disperse these growth factors and signaling proteins, and there is now strong evidence that establishes a fundamental and essential role for cytonemes – specialized filopodia that make functional connections between signaling cells and transport signaling proteins from producing to receiving cells. Cytoneme-mediated signaling is a dispersal mechanism that delivers signaling proteins directly at sites of cell-cell contact. It is essential for growth in both development and cancer.

---

世話人： ○北村俊雄（細胞療法分野） 中西 真（癌防御シグナル分野）  
谷口 維紹（生産技術研究所／炎症・免疫制御学部門）

---