研究例 5

軟骨形態形成の制御

Receptors of insulin and IGF complementary mediate signals for the mammalian cartilage organogenesis

OMariko Ojima¹ and Yohei Hirai¹ Dept. Bioscience., Grad. Sch. Sci. Technol., Kwansei Gakuin Univ.











downstream activation (phospholiration of Akt / ERK)

Ordinary : IGF-1 > insulin >> control (No signal) ✓ When IGF-1R was inactivated : insulin > IGF-1 >> control (No signal)

by IGF-1 / insulin



➢IGF-1 and insulin can bind to both of their receptors to activate the downstream signaling. ► IGF-1R and IR transduce signals in a complementary manner.