OOCYTE MEIOSIS K04526 K05459 Progesterone Progesterone-mediated oocyte maturation K08557 Fertilization Xenopus oocyte MAPK signaling pathway IP3°**Ò** Early translation of maternal mRNAs ► Late-late translation of maternal mRNAs Late translation of _ maternal mRNAs Хр38у +p\ (†p **†**+p K10292 K10318 K10318 K05867 K08836 Ubiquitin mediated proteolysis K03363 K05867 +u _+u MPF 🕁 K06635 K11580 K06635 CydB1/B4 CvcB2/B3 MPF K02365 Dgradation of CycB Dgradation of CycB Pericentromeric ⊥ Arm cohesin cohesin K13054 K13054 Prevent DNA replication Bipolar spindle formation Meiosis I progression Meiosis II resumption Delay to reentry into Meiosis Meiosis I exit Meiosis II arrest Meiosis II exit Prop hase I GVBD Meiosis I Interkinesis Meiosis II 04114 1/18/16 (c) Kanehisa Laboratories