OVARIAN STEROIDOGENESIS Ovary (theca interstitial cell) Phospholipids AAAA metabolites GnRH signaling pathway AA-CoA AA AA metabolites ARTISt AA metabolites Anterior pituitary K08522... K04248 K04632 K08041. cAMP Insulin signaling pathway K04526 K05459 DNA K16931 K00512 K00512 LDL Cholesterol K12473 **+0** Pregnenolone 17-hydroxy-pregnenolone Dehydroepi-androst<u>erone</u> Androstenediol HDL K00070 Mitochondria CE Steroid hormone Progesterone biosynthesis Testosterone 17-hydroxy-progesterone Androstenedione K00512 K00512 Circulation Basal lamina Ovary (granulosa cell) *****O° Steroid hormone 4-OH-estradiol biosynthesis **▶**17β-estradiol Androstenedione Testosterone K04526 Insulin signaling pathway 2-OH-estradiol K07408 K05459 GnRH signaling pathway Estrone Anterior pituitary **₽**₩ K05250 K04247 K04632 K08041... **+**0 cAMP DNA K05498 ⊢ FSHR expression TGF-β signaling pathway K16620 ➡ Follicular fluid 04913 4/22/13 (c) Kanehisa Laboratories