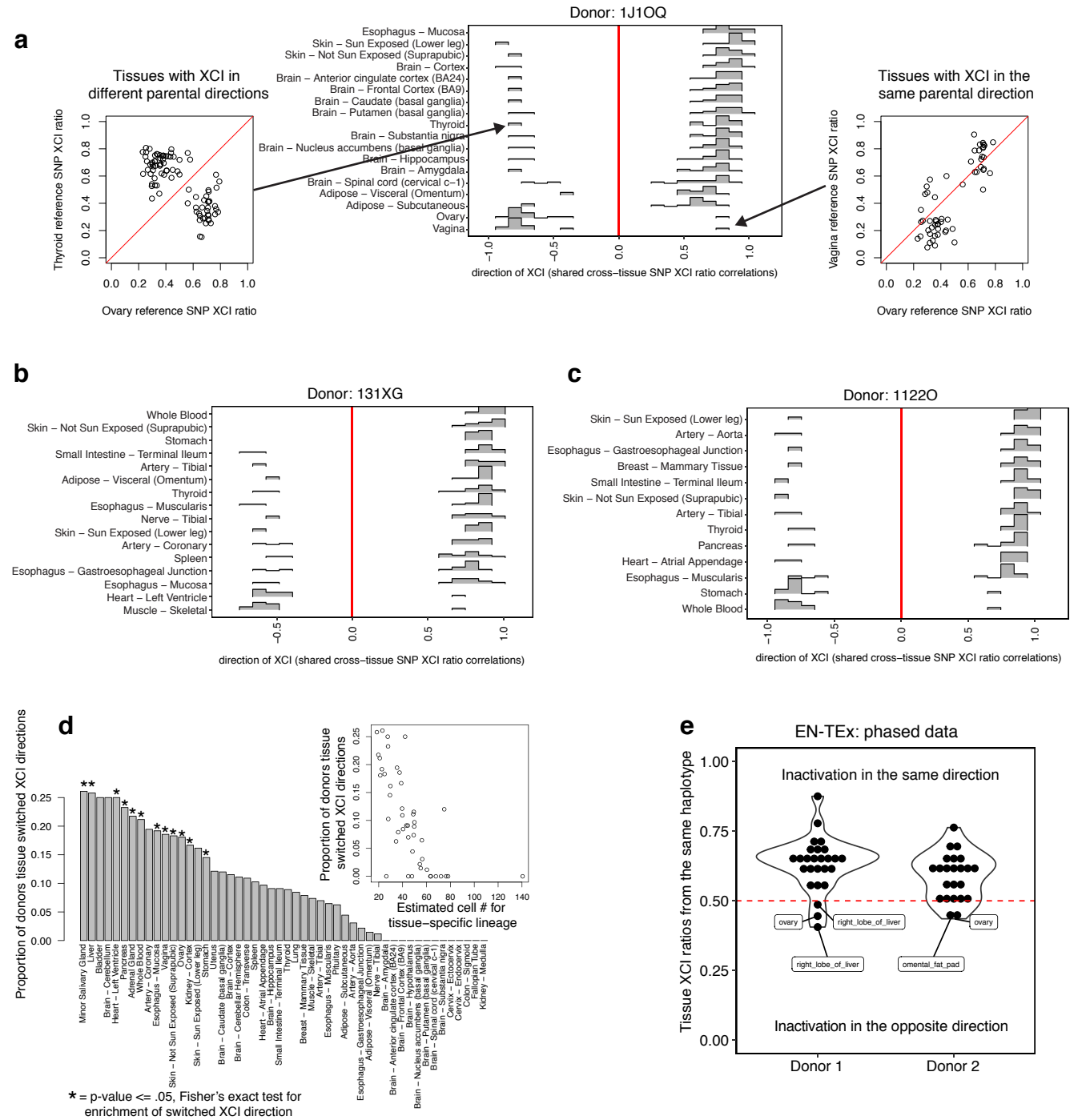
a
Donor: 1J1OQ
Tissues with XCI in different parental directions
Thyroid reference SNP XCI ratio
Ovary reference SNP XCI ratio
Esophagus – Mucosa
Skin – Sun Exposed (Lower leg)
Skin – Not Sun Exposed (Suprapubic)
Brain – Cortex
Brain – Anterior cingulate cortex (BA24)
Brain – Frontal Cortex (BA9)
Brain – Caudate (basal ganglia)
Brain – Putamen (basal ganglia)
Thyroid
Brain – Substantia nigra
Brain – Nucleus accumbens (basal ganglia)
Brain – Hippocampus
Brain – Amygdala
Brain – Spinal cord (cervical c–1)
Adipose – Visceral (Omentum)
Adipose – Subcutaneous
Ovary
Vagina
direction of XCI (shared cross–tissue SNP XCI ratio correlations)
Tissues with XCI in the same parental direction
Vagina reference SNP XCI ratio
Ovary reference SNP XCI ratio
b
Donor: 131XG
Whole Blood
Skin – Not Sun Exposed (Suprapubic)
Stomach
Small Intestine – Terminal Ileum
Artery – Tibial
Adipose – Visceral (Omentum)
Thyroid
Esophagus – Muscularis
Nerve – Tibial
Skin – Sun Exposed (Lower leg)
Artery – Coronary
Spleen
Esophagus – Gastroesophageal Junction
Esophagus – Mucosa
Heart – Left Ventricle
Muscle – Skeletal
direction of XCI (shared cross–tissue SNP XCI ratio correlations)
c
Donor: 1122O
Skin – Sun Exposed (Lower leg)
Artery – Aorta
Esophagus – Gastroesophageal Junction
Breast – Mammary Tissue
Small Intestine – Terminal Ileum
Skin – Not Sun Exposed (Suprapubic)
Artery – Tibial
Thyroid
Pancreas
Heart – Atrial Appendage
Esophagus – Muscularis
Stomach
Whole Blood
direction of XCI (shared cross–tissue SNP XCI ratio correlations)
d
Proportion of donors tissue switched XCI directions
Proportion of donors tissue switched XCI directions
Estimated cell # for tissue–specific lineage
* = p-value <= .05, Fisher's exact test for enrichment of switched XCI direction
e
EN-TEx: phased data
Tissue XCI ratios from the same haplotype
Inactivation in the same direction
Inactivation in the opposite direction
ovary
right_lobe_of_liver
right_lobe_of_liver
ovary
omental_fat_pad
Donor 1
Donor 2