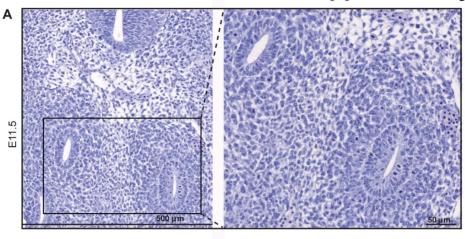
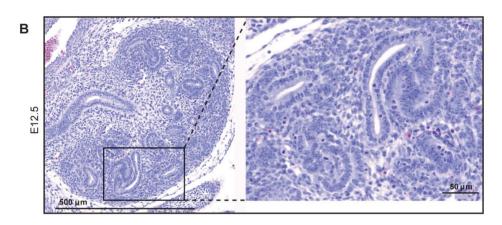
#### Conserved and Divergent Features of Human and Mouse Kidney Organogenesis

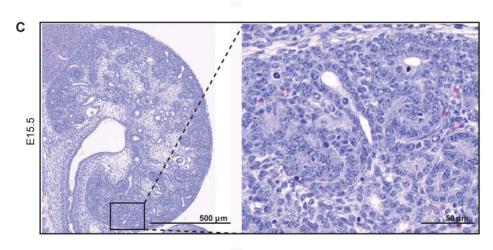
Lindström, N.O. <sup>1\*</sup>, McMahon, J.A. <sup>1\*</sup>, Guo, J. <sup>1</sup>, Tran, T. <sup>1</sup>, Guo, Q. <sup>1</sup>, Rutledge, E. <sup>1</sup>, Parvez, R.K. <sup>1</sup>, Saribekyan, G. <sup>1</sup>, Schuler, R.E. <sup>2,3</sup>, Liao, C. <sup>1</sup>, Kim, A.D. <sup>1</sup>, Abdelhalim, A. <sup>1</sup>, Ruffins, S.W. <sup>1</sup>, Thornton, M.E. <sup>4</sup>, Basking, L. <sup>5</sup>, Grubbs, B. <sup>4</sup>, Kesselman, C. <sup>3</sup>, and McMahon, A.P. <sup>1</sup>.

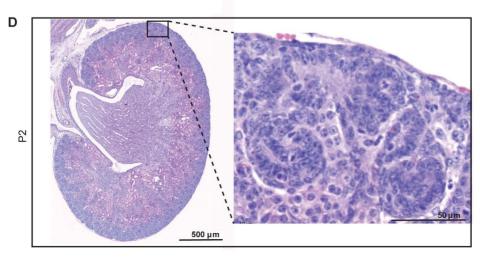
- 1. Department of Stem Cell Biology and Regenerative Medicine, Broad-CIRM Center, Keck School of Medicine, University of Southern California, Los Angeles, CA90089, USA.
- 2. Information Sciences Institute, Viterbi School of Engineering, University of Southern California, Los Angeles, California.
- 3. Epstein Department of Industrial and Systems Engineering and Information Sciences Institute, Viterbi School of Engineering and Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, California.
- 4. Maternal Fetal Medicine Division, University of Southern California, Los Angeles, California.
- 5. Department of Urology and Pediatrics, University of California San Francisco, San Francisco, California.
- \* These authors contributed equally.

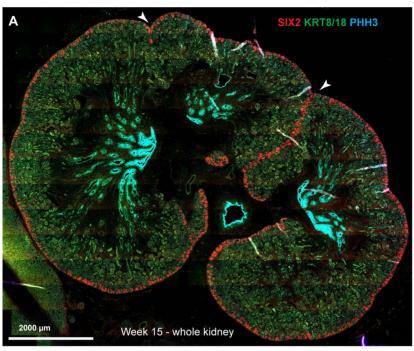
Corresponding author: Andrew P. McMahon, telephone: 323-442-7847, email: amcmahon@med.usc.edu

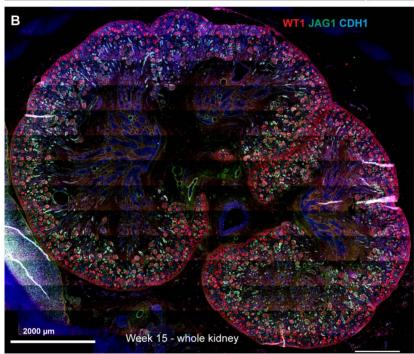


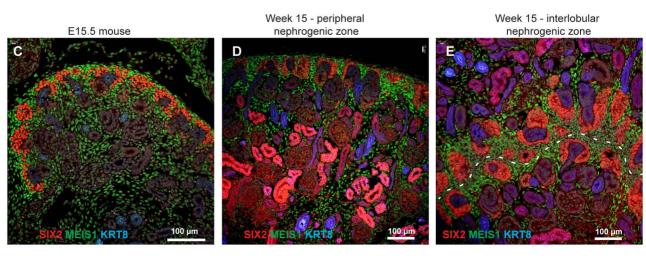


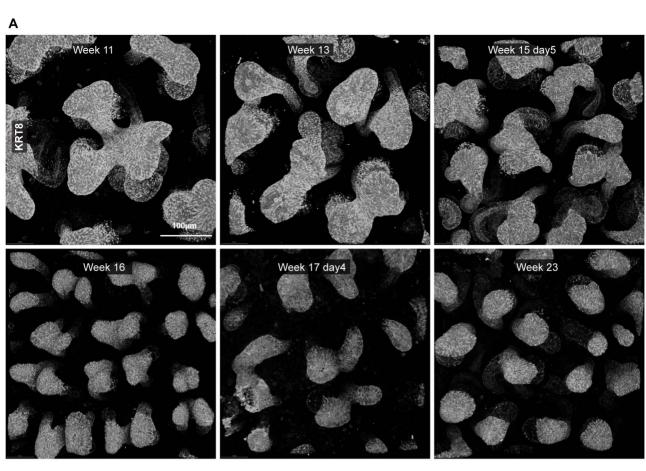


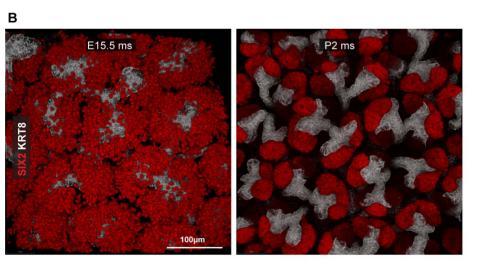












#### **Supplementary figure 4** S1 S2 S2 SDL LDLOM S2 S3 SDL SDL S2 S3 SDL LDLOM LDLIM tAL mTAL ΑF 250.0 250.0 250.0 GPX3 KAP --- NPHS1 MAFB SLC34A1 SLC34A1 PODXL NPHS2 PTH1R PTH1R 200.0 200.0 200.0 SYNPO MAP3K7 PINK1 SEPP1 150.0 150.0 150.0 M 100.0 100.0 100.0 50.0 50.0 50.0 0.0 0.0 0.0 wk9d5 wk11d3 wk17 wk9d5 wk11d3 wk13 wk17 wk9d5 wk11d3 wk13 wk21 wk13 S1 S2 SDL LDLOM S3 SDL LDLOM SDL LDLOM LDLIM LDLIM LDLIM CNT 8 DCT CNT S2 S3 Ä ¥ Ä 250.0 250.0 250.0 KAP SPP1 -S100A6 --- AQP1 SLC7A13 PTH1R AQP1 GHRHR -TGFBR2 **GHRHR** 200.0 PIM3 200.0 200.0 SPP1 TGFBR2 HNF4A 150.0 150.0 150.0 ₩ 100.0 100.0 100.0 50.0 50.0 50.0 0.0 0.0 wk17 wk9d5 wk11d3 wk13 wk9d5 wk11d3 wk13 wk9d5 wk11d3 wk13 wk17 LDLIM S2 S3 SDI S1 S2 \$1 250.0 250.0 250 0 SPP1 AKR1B1 --- CLDN4 UMOD --- SLC12A1 AQP1 GPRC5C PIM3 GPRC5C 200.0 200.0 200.0 PTGER3 MAP3K7 -CLU MAP3K7 ∑ 150.0 L 150.0 150.0 PM 100.0 100.0 100.0 50.0 50 0 50.0 0.0 wk9d5 wk11d3 wk13 wk9d5 wk11d3 wk9d5 wk11d3 S2 S3 SDL LDLOM S1 S3 SDL LDLOM LDLOM LDLIM LDLIM LDLIM IMCD S2 S3 SDL Ä Ä Ä

