

**Table S3. E13.5 control, *Frs2α<sup>UB-/-</sup>*, *Fgfr2<sup>UB-/-</sup>* and *Fgfr2/Frs2α<sup>UB-/-</sup>* kidney and ureteric measurements**

Genotype	Control	<i>Frs2α<sup>UB-/-</sup></i>	<i>Fgfr2<sup>UB-/-</sup></i>	<i>Fgfr2/Frs2α<sup>UB-/-</sup></i>
<b>Kidney</b>				
Area ( $\mu\text{m}^2$ )	$4.4 \times 10^5 \pm 6.1 \times 10^4$	$4.7 \times 10^5 \pm 9.2 \times 10^4$	$2.9 \times 10^5 \pm 5.5 \times 10^4$	$2.9 \times 10^5 \pm 1.1 \times 10^4 *†$
Volume ( $\mu\text{m}^3$ )	$3.2 \times 10^7 \pm 8.5 \times 10^6$	$3.5 \times 10^7 \pm 1.2 \times 10^7$	$1.6 \times 10^7 \pm 2.9 \times 10^6$	$1.7 \times 10^7 \pm 2.4 \times 10^6 *†$
<b>Ureteric tree</b>				
Area ( $\mu\text{m}^2$ )	$4.4 \times 10^5 \pm 5.5 \times 10^4$	$3.4 \times 10^5 \pm 1.0 \times 10^5$	$1.2 \times 10^5 \pm 5.2 \times 10^4$	$1.3 \times 10^5 \pm 3.9 \times 10^4 *†$
Normalized area (%)	$101 \pm 12$	$71 \pm 13$	$41 \pm 11$	$43 \pm 2.6 *†$
Volume ( $\mu\text{m}^3$ )	$3.9 \times 10^6 \pm 8.1 \times 10^5$	$3.2 \times 10^6 \pm 1.2 \times 10^6$	$1.0 \times 10^6 \pm 3.2 \times 10^5$	$9.2 \times 10^5 \pm 6.3 \times 10^4 *†$
Normalized volume (%)	$12 \pm 1.1$	$9.2 \pm 2.2$	$6.6 \pm 1.4$	$5.5 \pm 0.5 *†$
Total segment length ( $\mu\text{m}$ )	$6.3 \times 10^3 \pm 7.8 \times 10^2$	$4.6 \times 10^3 \pm 1.1 \times 10^3$	$1.7 \times 10^3 \pm 7.3 \times 10^2$	$1.7 \times 10^3 \pm 3.1 \times 10^2 *†$
Segment number	$116 \pm 8.3$	$74 \pm 9.1$	$29 \pm 10$	$30 \pm 4.0 *†$
Total tip length ( $\mu\text{m}$ )	$3.5 \times 10^3 \pm 5.7 \times 10^2$	$2.6 \times 10^3 \pm 8.3 \times 10^2$	$1.0 \times 10^3 \pm 5.3 \times 10^2$	$9.3 \times 10^2 \pm 2.2 \times 10^2 *†$
Tip number	$60 \pm 5.1$	$38 \pm 6.3$	$15 \pm 5.1$	$15 \pm 2.0 *†$
Total branch length ( $\mu\text{m}$ )	$2.8 \times 10^3 \pm 2.5 \times 10^2$	$2.0 \times 10^3 \pm 2.4 \times 10^2$	$7.2 \times 10^2 \pm 2.8 \times 10^2$	$7.9 \times 10^2 \pm 1.5 \times 10^2 *†$
Branch number	$56 \pm 3.6$	$36 \pm 3.1$	$14 \pm 5.3$	$15 \pm 2.1 *†$

\* $P < 0.05$  compared with control; † $P < 0.05$  compared with *Frs2α<sup>UB-/-</sup>*.