



Legend for Supplemental Figure 5:

Conceptual schema representing the number of new podocytes derived from cells of renin lineage by using the formula

$$M=N*P_1*P_2*P_3$$

CoRL represent a very small portion of all cells in the kidney cortex (first column).

N= the total CoRL population number/renin expressing cells (second column, open red circles)

P₁ = the number or RFP+ CoRL. “Labeling efficiency” (second column, first row, solid red circles)

N*P₁ = number of RFP labeled cells in the JGC -“CoRL Pool Size” (second column, second row, solid red circles)

P₂ = the percentage of permanently labeled CoRL that migrated from the JGC to the IGC, “CoRL Migration” (third column, third row, solid red circles)

P₃= % RFP labeled cells which co-express podocyte marker Synaptopodin in IGC-“CoRL Transdifferentiation” (third column, forth row, solid blue circle)

M= potential number of traceable new RFP positive podocytes derived from CoRL (see table 1)