Supplementary Materials

Supplemental Table 1. 22 genes overlapping with 176 common differentially identified genes (DEGs) and genes listed in the PodNet.

Supplemental Figure 1. Heatmap of human podocytes whole-transcriptome sequencing of genes which showed top variance between the IL-4/IL-4+DEX treated and control groups of podocytes.

Supplemental Figure 2. Top-listed DEGs which were (A) negatively and (B) positively changed in IL-4 treated-podocytes compared to vehicle-treated controls.

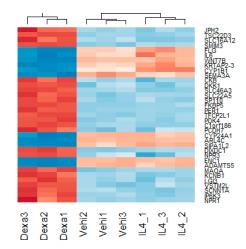
Supplemental Figure 3. Top-listed DEGs which were (A) negatively and (B) positively changed in IL-4 treated-podocytes compared to IL-4 plus dexamethasone treated podocytes.

Supplemental Figure 4. (A) Heatmap of 22 genes overlapping with 176 common differentially identified genes (DEGs) and genes listed in the PodNet, (B) positive- or negative expression of the 22 DEGs, (C) Protein-protein interaction network for the 22 DEGs.

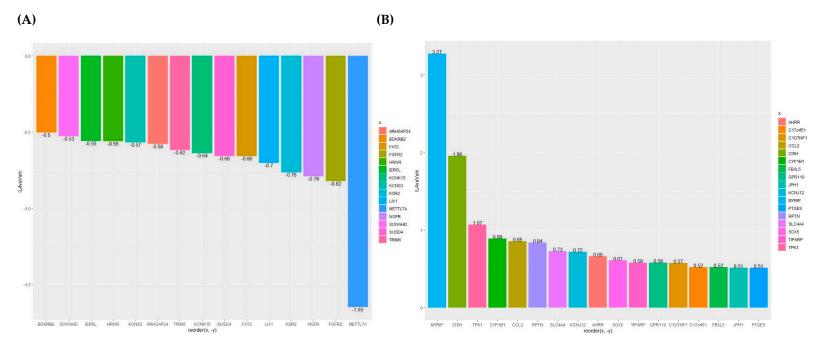
Supplemental Figure 5. Gene expression levels of 12 DEGs in three podocyte groups (A) BMP4, (B) CAMK2B, (C) CDKN1A, (D) PLCE1, (E) RARB, (F) PTGER4, (G) PARD3, (H) PRKCI, (I) WWC1, (J) CASK, (K) TLN2, (L) ARHGAP2.

Supplemental Table S1. 22 genes overlapping with 176 common differentially identified genes (DEGs) and genes listed in the PodNet

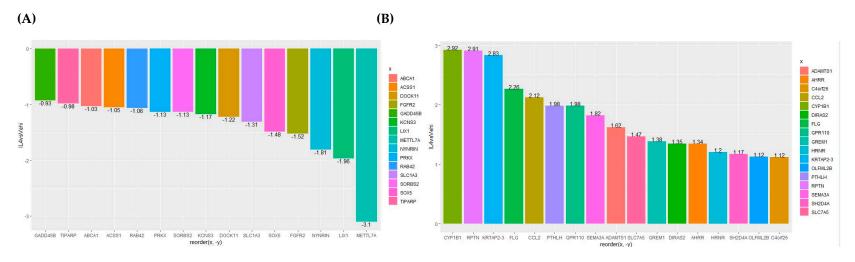
ID	Gene Name
ARHGAP24	Rho GTPase activating protein 24(ARHGAP24)
SH2D4A	SH2 domain containing 4A(SH2D4A)
SMAD7	SMAD family member 7(SMAD7)
WWC1	WW and C2 domain containing 1(WWC1)
ANGPTL2	angiopoietin like 2(ANGPTL2)
BMP4	bone morphogenetic protein 4(BMP4)
CAMK2B	calcium/calmodulin dependent protein kinase II beta(CAMK2B)
CASK	calcium/calmodulin dependent serine protein kinase(CASK)
CDKN1A	cyclin dependent kinase inhibitor 1A(CDKN1A)
KIRREL3	kin of IRRE like 3 (Drosophila)(KIRREL3)
NRP1	neuropilin 1(NRP1)
PAK2	p21 (RAC1) activated kinase 2(PAK2)
PARD3	par-3 family cell polarity regulator(PARD3)
PLCE1	phospholipase C epsilon 1(PLCE1)
PKD2	polycystin 2, transient receptor potential cation channel(PKD2)
PTGER4	prostaglandin E receptor 4(PTGER4)
PRKCE	protein kinase C epsilon(PRKCE)
PRKCI	protein kinase C iota(PRKCI)
RARB	retinoic acid receptor beta(RARB)
SEMA3A	semaphorin 3A(SEMA3A)
SYNPO	synaptopodin(SYNPO)
TLN2	talin 2(TLN2)



Supplemental Figure S1. Heatmap of human podocytes whole-transcriptome sequencing of genes which showed top variance between the IL-4/IL-4+DEX treated and control groups of podocytes

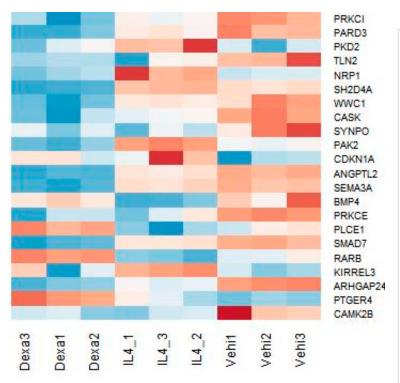


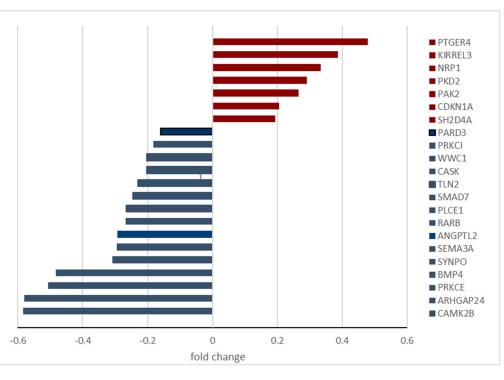
Supplemental Figure S2. Top-listed DEGs which were (A) negatively and (B) positively changed in IL-4 treated-podocytes compared to vehicle-treated controls.

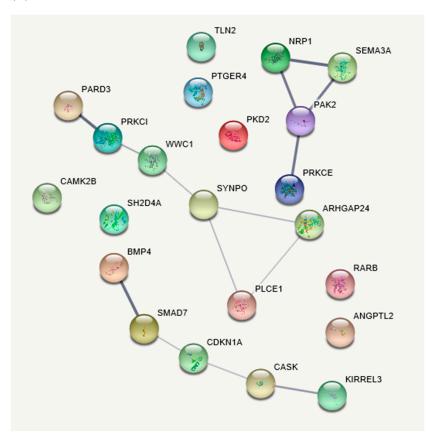


Supplemental Figure S3. Top-listed DEGs which were (A) negatively and (B) positively changed in IL-4 treated-podocytes compared to IL-4 plus dexamethasone treated podocytes.

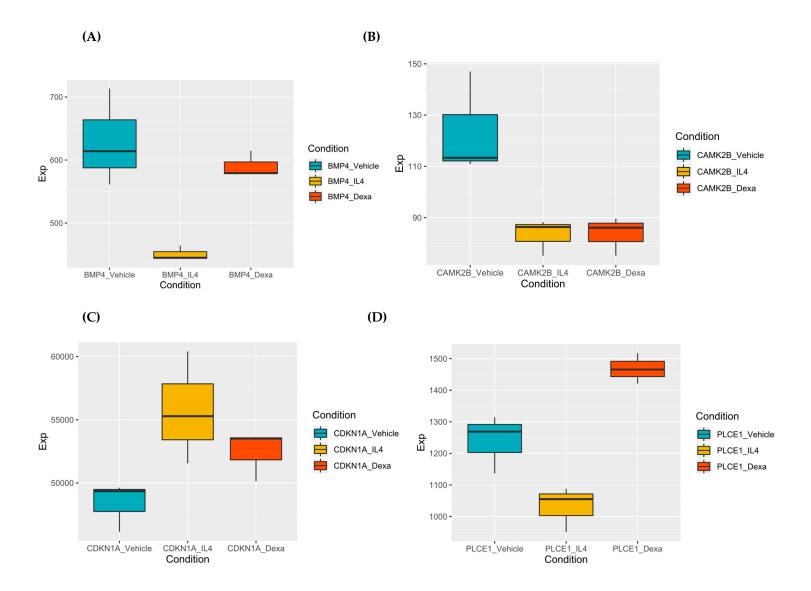


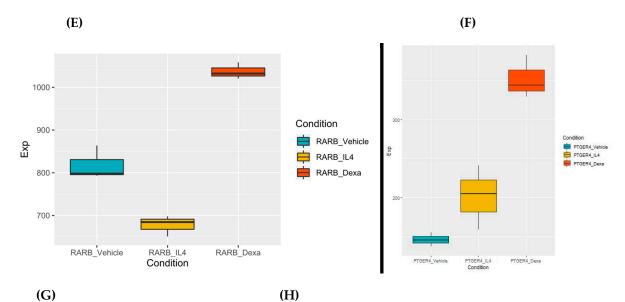


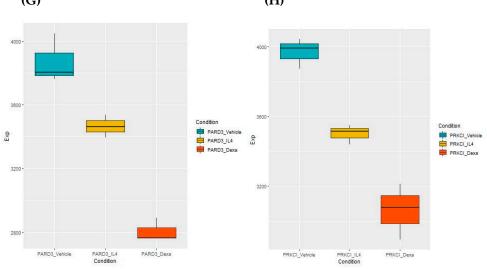


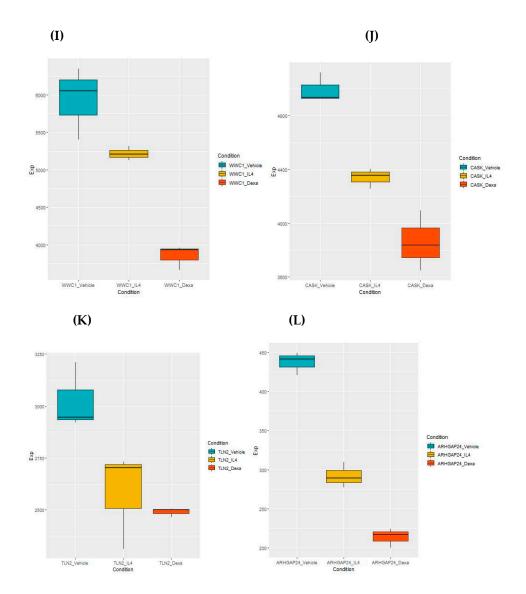


Supplemental Figure S4. (A) Heatmap of 22 genes overlapping with 176 common differentially identified genes (DEGs) and genes listed in the PodNet, (B) positive- or negative expression of the 22 DEGs, (C) Protein-protein interaction network for the 22 DEGs.









Supplemental Figure S5. Gene expression levels of 12 DEGs in three podocyte groups. (A) BMP4, (B) CAMK2B, (C) CDKN1A, (D) PLCE1, (E) RARB, (F) PTGER4, (G) PARD3, (H) PRKCI, (I) WWC1, (J) CASK, (K) TLN2, (L) ARHGAP2.