SUPPLEMENTAL FIGURE LEGENDS

FIG. S1. Mouse urine and blood constituents. (*A*) Urine was collected daily from pregnant mice at 15.5 dpc to 18.5 dpc. Urine albumin and creatinine were assayed in WT dams treated with ERR γ agonist DY131 or vehicle (DMSO). (*B*) Urine was collected daily from 14.5 dpc to 18.5 dpc. Total urine potassium excretion over each 24 h period was assayed in *ERR\gamma^{+/-}* and *WT* dams. (*C*) Serum potassium was assayed in *ERR\gamma^{+/-}* and *WT* dams at 18.5 dpc. Values are means ± SEM. ***P*<0.01.

FIG. S2. ERRγ deficient mice have lower blood pressure during pregnancy and postpartum. Systolic blood pressure was measured from 14.5 dpc to 18.5 dpc in the following groups: (*A*) *WT* \heartsuit mated either with WT \eth (\heartsuit WT × \eth WT) or with *ERRγ*^{+/-} \eth (\heartsuit WT × \eth HET); (*B*) *ERRγ*^{+/-} \heartsuit mated either with *ERRγ*^{+/-} \Huge (\heartsuit HET × \eth HET) or *WT* \oiint (\heartsuit HET × \eth WT). (*C*) Systolic blood pressure was measured in *ERRγ*^{+/-} 𝔅 mated with *WT* \eth (\heartsuit T) and WT \clubsuit (mated with *ERRγ*^{+/-} \eth) from 14.5 dpc to 18.5 dpc and from postpartum days 9 to day 13. Systolic blood pressure was measured from 14.5 dpc to 18.5 dpc in the following groups: (*D*) *WT* \heartsuit mated with WT \eth with (L-NAME WT) or without (Nontreated WT) treatment with the e-NOS inhibitor, L-NAME; (*E*) *ERRγ*^{+/-} \heartsuit mated with *ERRγ*^{+/-} \oiint with (*L*-NAME HET) or without (Nontreated HET) treatment with L-NAME; (*F*) *WT* \heartsuit mated with *ERRγ*^{+/-} \oiint with (2% salt WT) or without (Nontreated HET) high salt (2%) treatment; (*G*) *ERRγ*^{+/-} \heartsuit mated with *ERRγ*^{+/-} \oiint with (2% salt HET) or without (Nontreated HET) high salt treatment. Values are means ± SEM. **P*<0.05, ***P*<0.01, ****P*<0.001.

FIG. S3. ERR γ is expressed both in labyrinth and spongiotrophoblast of mouse placenta. (*A*) Wild type (WT), *ERR\gamma^{+/-}* (HET) and *ERR\gamma^{-/-}* (HOMO) placentas from *ERR\gamma^{+/-}* dams were collected at 18.5 dpc;

labyrinth and spongiotrophoblast enriched tissues were microdissected. mRNA expression of ERRγ was analyzed by qRT-PCR; RPLP0 was used as the internal reference. Values are means \pm SEM, ***P*<0.01. ****P*<0.001. (*B*) Proteins isolated from WT and *ERRγ*^{-/-} placentas from *ERRγ*^{+/-} dams at 18.5 dpc were analyzed by immunoblotting using antisera to ERRγ or β-actin, as loading control.

FIG. S4. Renin-angiotensin system was unaltered in the kidneys of $ERR\gamma^{+/-}$ pregnant mice. RNA was isolated from the kidneys of $ERR\gamma^{+/-}$ or WT dams at 18.5 dpc. mRNA expression of angiotensinogen, renin, angiotensin I converting enzyme 1 (Ace1), angiotensin I converting enzyme 2 (Ace2) and angiotensin II type 1a receptor (Agtr1a) was analyzed by qRT-PCR; RPLP0 was used as the internal reference.

FIG. S5. Cyp11a1 and Cyp21 expression was unaltered in adrenal glands of $ERR\gamma^{+/-}$ non-pregnant mice. RNA isolated from adrenal glands of $ERR\gamma^{+/-}$ or WT non-pregnant mice was analyzed for mRNA expression of Cyp11a1 and Cyp21 by qRT-PCR; RPLP0 was used as the internal reference. Values are means \pm SEM. *P<0.05.







Figure S3







Figure S4



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