

## Supplementary Material

### Supplemental Table

**Table S1** CKD biochemical markers in male mice fed by alternating adenine-enriched diet and regular diet for 6 weeks.

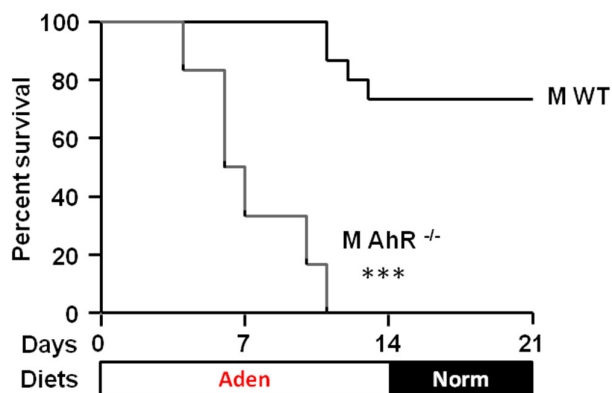
	Males WT		Males AhR <sup>-/-</sup>	
	Normal Diet	Adenine diet	Normal Diet	Adenine diet
Urea (mmol/L)	8.6 ± 0.4	32.0 ± 4.4 <sup>a</sup>	8.3 ± 0.4	18.6 ± 2.2 <sup>b,c</sup>
Creatinine (μmol/L)	32.3 ± 0.6	78.6 ± 7.7 <sup>a</sup>	26.7 ± 1.1	55.6 ± 10.7 <sup>b</sup>

Data are expressed as mean ± SEM (n=5-10/group).<sup>a</sup> p<0.001 *versus* WT normal-diet group; <sup>b</sup> p<0.01 *versus* AhR<sup>-/-</sup> normal-diet group; <sup>c</sup> p<0.05 *versus* WT adenine-diet group.

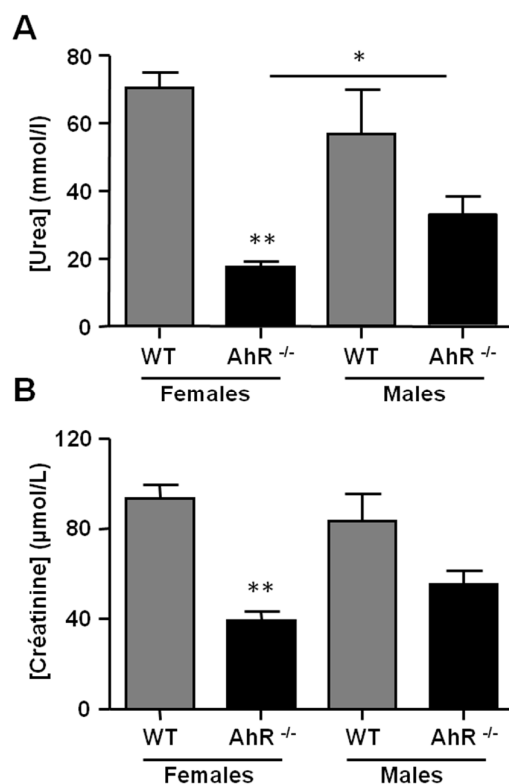
**Table S2** List of primer references used in qPCR experiments

Target genes	TaqMan probes ID
<i>Gusb</i>	Mm01197698_m1
<i>TNF-α</i>	Mm00443258_m1
<i>PAI-1</i>	Mm00435860_m1
<i>Col 1A1</i>	Mm00801666_g1
<i>Col 3A1</i>	Mm01254476_m1
<i>XDH</i>	Mm00442110_m1
<i>Cyp 2E1</i>	Mm00491127_m1
<i>Sult 1A1</i>	Mm00467072_m1
<i>Slc 22A6</i>	Mm00456258_m1
<i>Slc 22A8</i>	Mm00459534_m1

## Supplemental Figures



**Figure S1.** Kaplan-Meier survival curves of male (M) WT and AhR<sup>-/-</sup> mice fed by with a 0.25% adenine (Aden)-enriched diet for 14 days then with a regular diet (Norm) for 7 days. \*\*\*p < 0.001 (log-rank test).



**Figure S2.** Urea (A) and creatinine (B) in the serum of mice (WT and AhR<sup>-/-</sup>) fed with 0.25% adenine-enriched diet for 1 week. Data are expressed as mean  $\pm$  SEM, n=5-7/group. \*P < 0.05; \*\*P < 0.01.