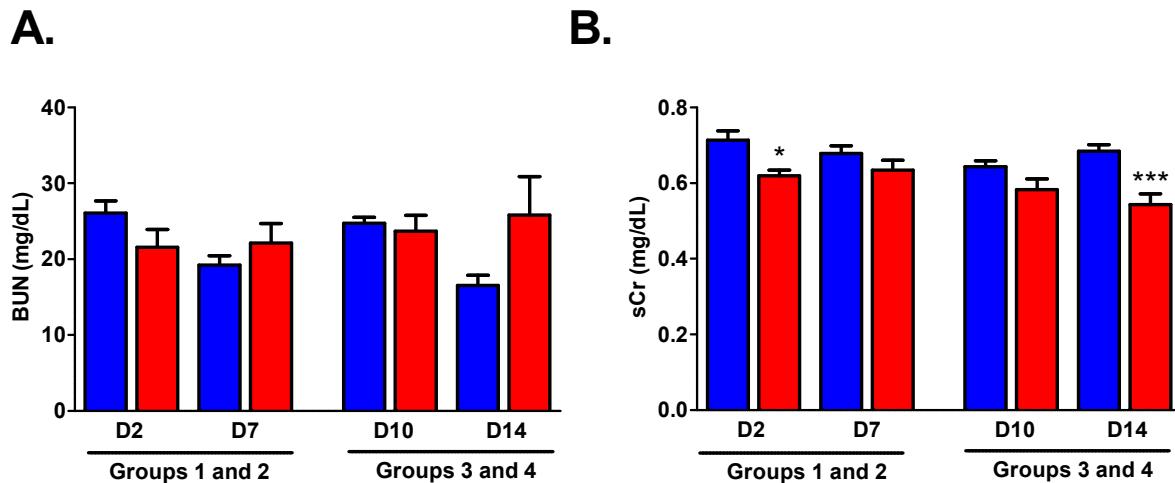
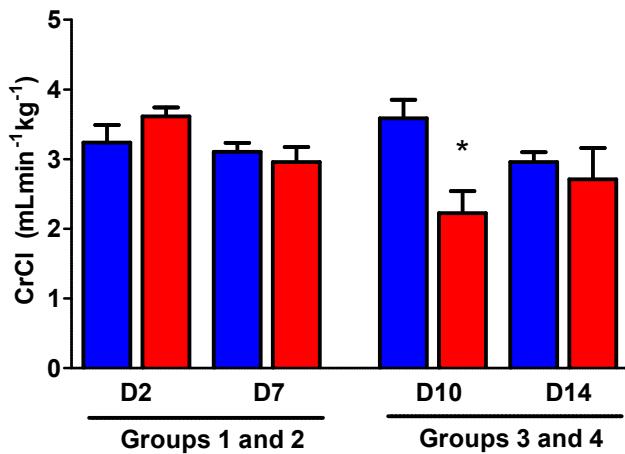


Supplemental Figure 1:



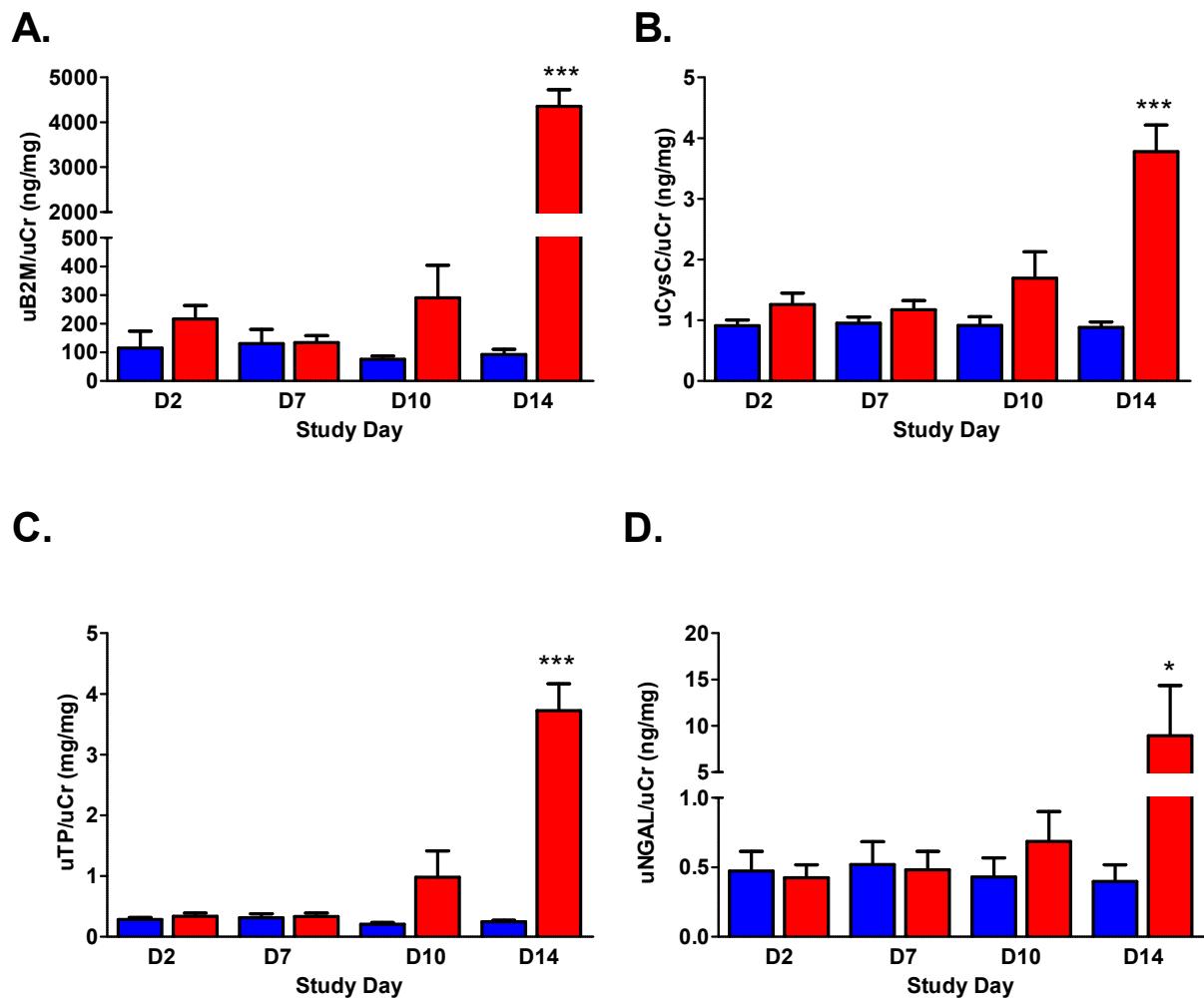
Supplemental Figure S1: Blood urea nitrogen (BUN; A) and serum creatinine (sCr, B) concentrations were measured in serum obtained from DOX-treated (red) and Vehicle-treated (blue) rats. Data represents the mean concentration \pm SEM. Significance is * $p<0.05$ and *** $p<0.001$ (compared to Vehicle controls).

Supplemental Figure 2



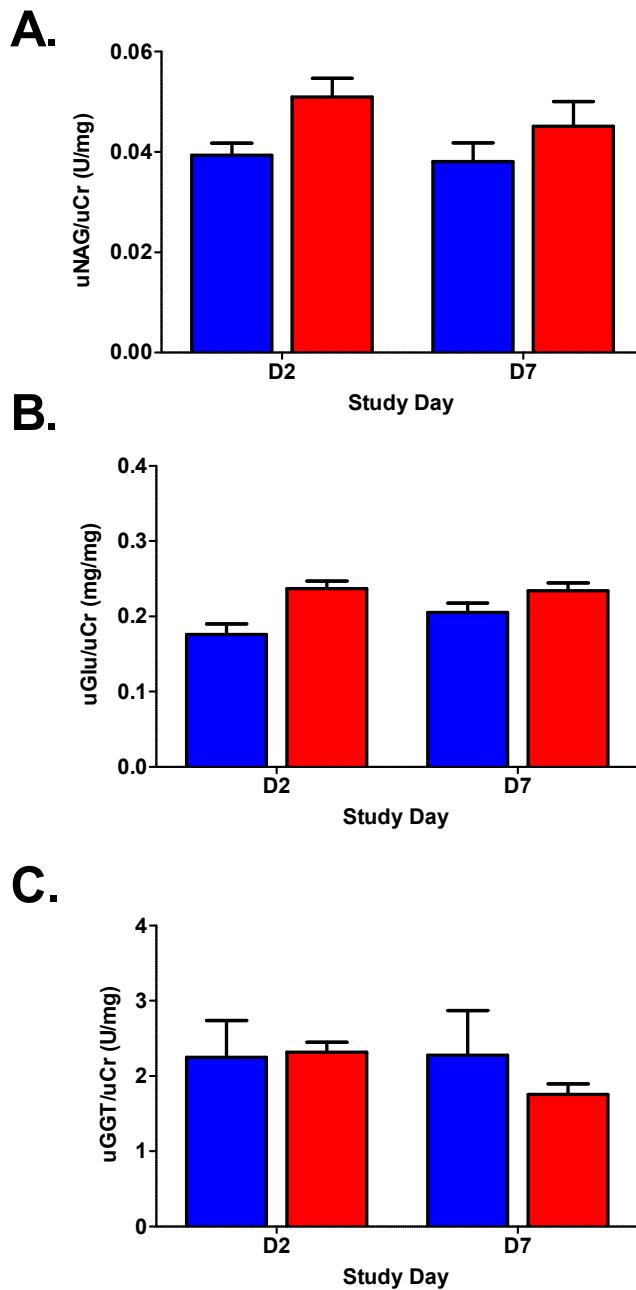
Supplemental Figure S2: Creatinine clearance (CrCl) was determined for Vehicle- (blue) and DOX-treated (red) rodents on D2, D7, D10, and D14. Bars represent the mean concentration \pm SEM. Significance is $*p<0.05$ (compared to Vehicle).

Supplemental Figure 3:



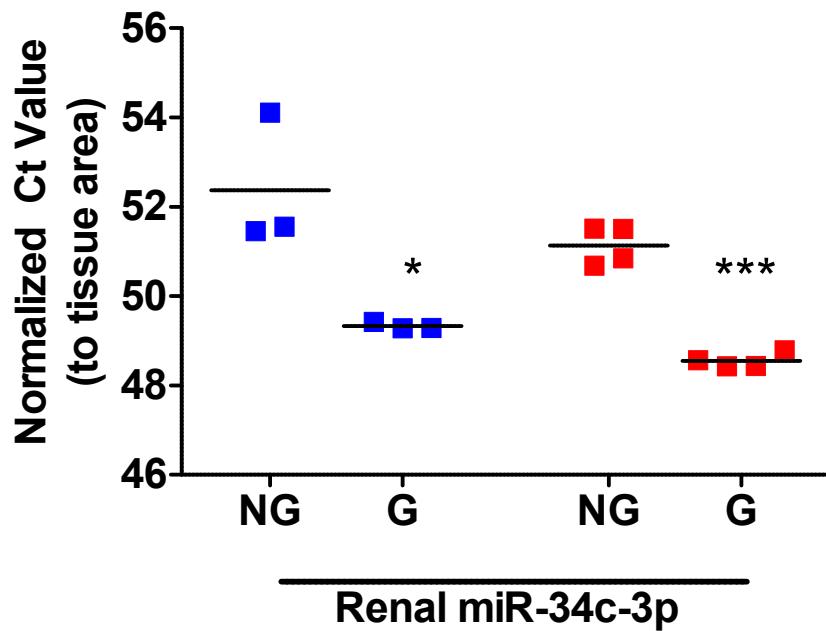
Supplemental Figure S3: Urinary B2M (uB2M; A), Cystatin C (uCysC; B). TP (uTP; C), and NGAL (uNGAL; D) concentrations were measured in urine obtained from Group 4 (DOX; red) and Group 3 (Vehicle; blue) rats. Bars represent the mean concentration \pm SEM. Significance is *p<0.05 and ***p<0.001 by two way ANOVA analysis and Bonferroni multiple test correction (compared to Vehicle)

Supplemental Figure 4



Supplemental Figure S4: Urinary NAG (uNAG; A), glucose (uGlu; B), and GGT (uGGT; C) concentrations were measured in urine obtained from DOX-treated (red) and Vehicle-treated (blue) rats. Bars represent the mean concentration \pm SEM.

Supplemental Figure 5



Supplemental Figure S5: Relative quantification of miR-34c-3p was determined in glomeruli (G), as well as adjacent nonglomerular (NG) renal tissue samples from a subset of Vehicle- (blue) and D14 DOX-treated (red). Line represents mean normalized Ct value. Significance is *p<0.05 and ***p<0.001 (G compared to NG)

Supplemental Table 1**Urinary Protein Biomarker Data For Groups 1 and 2 Rats**

Urinary Biomarker	Study Day	Vehicle-treated (Group 1)	DOX-treated (Group 2)
uOPN (ng/mg)	D2	1.087 ± 0.16	1.157 ± 0.1
	D7	0.916 ± 0.22	1.047 ± 0.53
uALB (ng/mg)	D2	200.8 ± 38	236.8 ± 55.68
	D7	242.5 ± 31.67	7681 ± 3775*
uKIM-1 (ng/mg)	D2	0.337 ± 0.059	0.227 ± 0.06
	D7	0.3 ± 0.07	0.241 ± 0.07
uB2M (ng/mg)	D2	67.47 ± 25.56	87.93 ± 25.69
	D7	80.26 ± 19.48	71.07 ± 18.81
uCysC (ng/mg)	D2	0.847 ± 0.097	0.876 ± 0.107
	D7	0.927 ± 0.083	0.874 ± 0.104
uTP (mg/mg)	D2	0.28 ± 0.03	0.212 ± 0.021
	D7	0.314 ± 0.027	0.308 ± 0.036
uNGAL (ng/mg)	D2	0.43 ± 0.105	0.537 ± 0.061
	D7	0.408 ± 0.092	0.43 ± 0.064
uNAG (U/mg)	D2	0.035 ± 0.002	0.037 ± 0.003
	D7	0.038 ± 0.002	0.046 ± 0.005
uGLU (mg/mg)	D2	0.173 ± 0.028	0.174 ± 0.028
	D7	0.194 ± 0.01	0.2 ± 0.015
uGGT (U/mg)	D2	1.318 ± 0.221	1.647 ± 0.279
	D7	1.61 ± 0.171	2.381 ± 0.305

Data represents protein concentration mean ± SEM

*Significance is p<0.05

Supplemental Table 2

DOX Related Alterations in miRNA Species in Male Sprague-Dawley Rats (Compared to Vehicle)				
Day of Urinary miRNA Release	D2	D7	D10	D14
# of Increased miRNA	5	12	33	133
# of Decreased miRNA	24	5	3	4
Candidate Urinary miRNA Biomarkers	1 Common species: miR-34c-3p			