

Figure S1. Effects of the different therapies on serum BUN (A), Scr (B), and MDA (C) levels. Bars represent mean \pm SD. After the one-way ANOVA test, the Bonferroni post-hoc test was used to determine the significant differences between the groups, where: $^{^^}$: $P < 0.001$, compared to the control rats. *** : $P < 0.001$, compared to the IRI group. $^{###}$: $P < 0.001$, compared to the IRI + PTZ S group. $^{+++}$: $P < 0.001$, compared to the IRI + VINCA M group. f : $P < 0.05$, ff : $P < 0.01$, and fff : $P < 0.001$, compared to the IRI + VINCA S group. $^{\$}$: $P < 0.05$, $^{\$\$}$: $P < 0.01$, $^{\$ \$ \$}$: $P < 0.001$ compared to the IRI + PTZ M group.

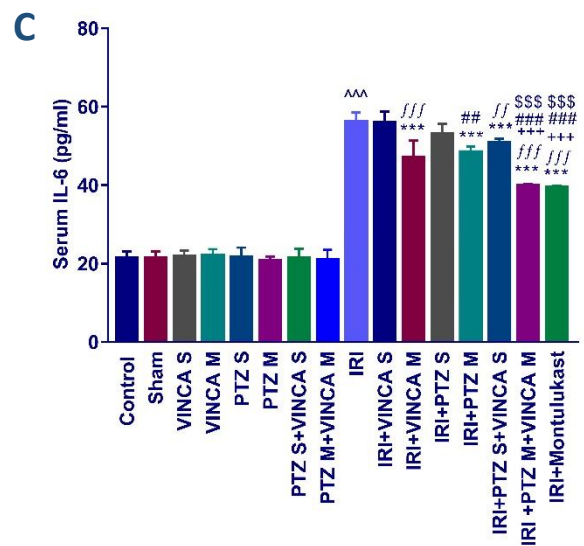
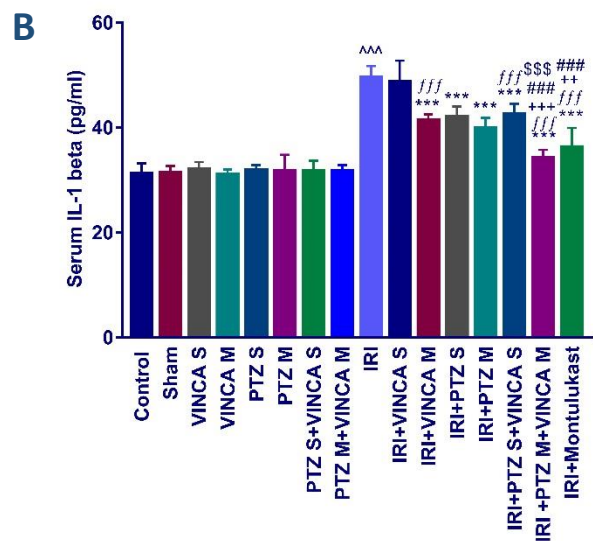
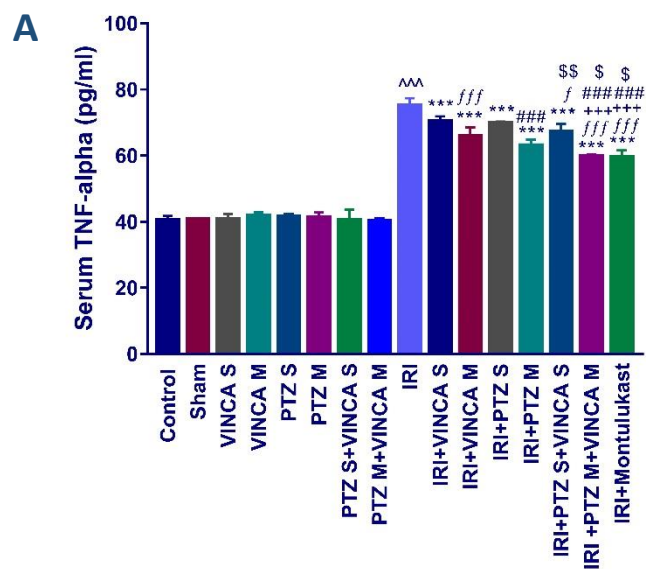


Figure S2. Impact on the inflammatory cytokines levels. Serum levels of (A) TNF- α , (B) IL-1 β , and (C) IL-6 (pg/ml) for the studied groups. Bars represent mean \pm SD. After the one-way ANOVA test, the Bonferroni post-hoc test was used to determine the significant differences between the groups, where: $^{^^}$: $P < 0.001$, compared to the control rats. ** : $P < 0.001$, compared to the IRI rodents. $^{##}$: $P < 0.01$, $^{###}$: $P < 0.001$, compared to the IRI + PTZ S group. $^{\$}$: $P < 0.05$, $^{\$\$}$: $P < 0.01$, $^{$$$}$: $P < 0.001$, compared to the IRI + PTZ M group. f : $P < 0.05$, ff : $P < 0.01$, and fff : $P < 0.001$, compared to the IRI + VINCA S group. $^{+++}$: $P < 0.001$, compared to the IRI + VINCA M group.

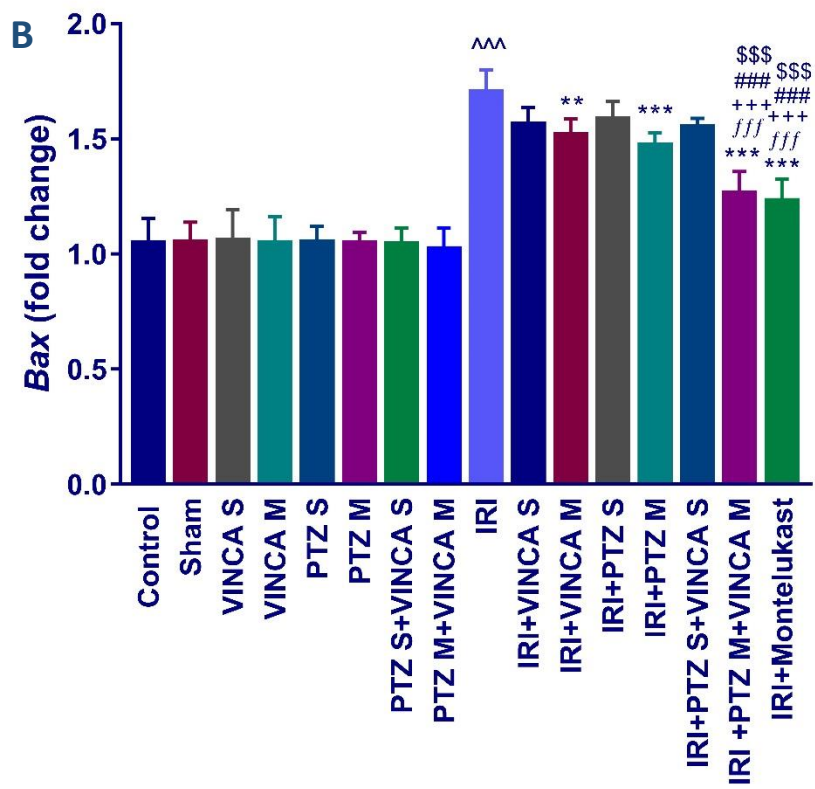
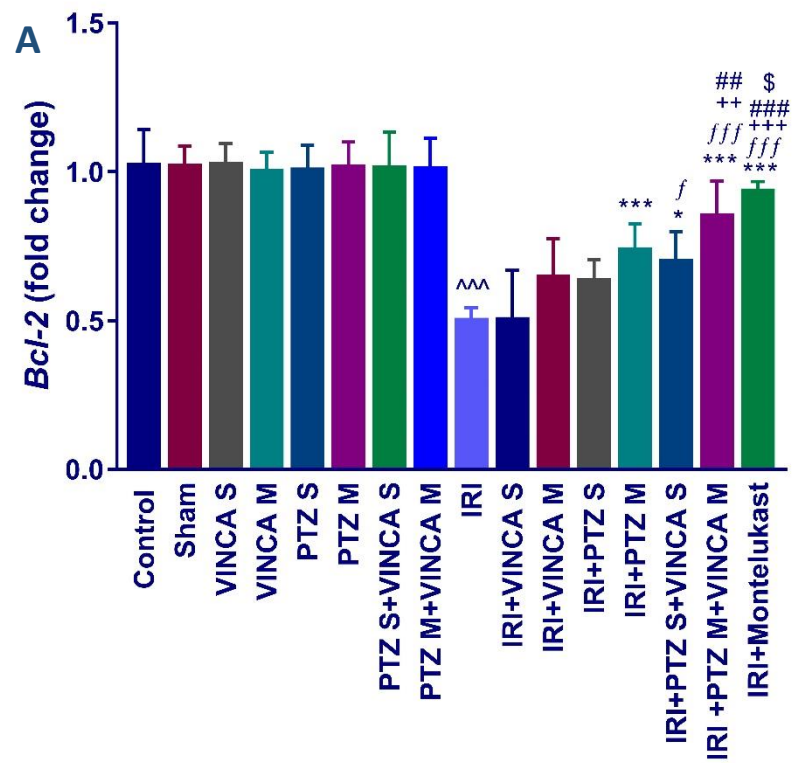


Figure S3. *Bcl-2* (A) and *Bax* (B) molecular expressions in the kidneys of the studied groups using RT-PCR. Data were presented as fold changes relative to the control group. Bars represent mean \pm SD. After the one-way ANOVA test, the Bonferroni post-hoc test was used to determine the significant differences between the groups, where: $^{^^}$: $P < 0.001$, compared to the control animals. *: $P < 0.05$, **: $P < 0.01$, and ***: $P < 0.001$, compared to the IRI group. ##: $P < 0.01$, and ###: $P < 0.001$, compared to the IRI + PTZ S group. \$: $P < 0.05$, compared to the IRI + PTZ M group. ++: $P < 0.01$, and +++: $P < 0.001$, compared to the IRI + VINCA M group. f: $P < 0.05$, and fff: $P < 0.001$ compared to the IRI + VINCA S group.

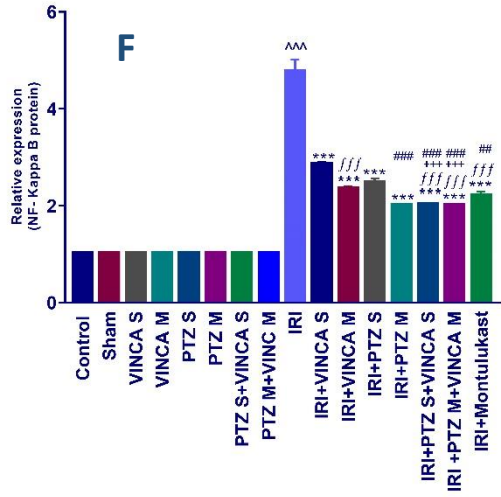
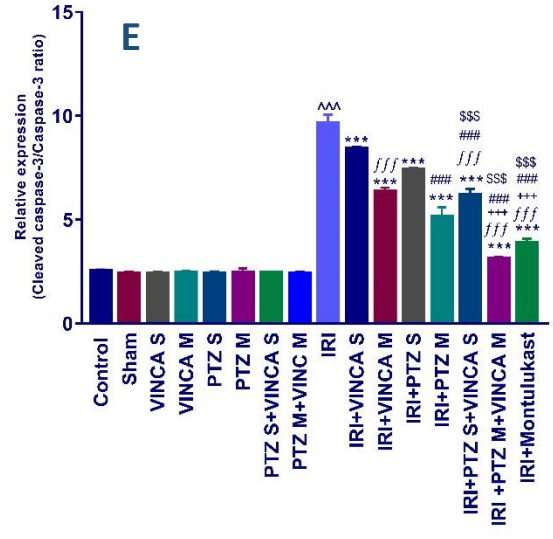
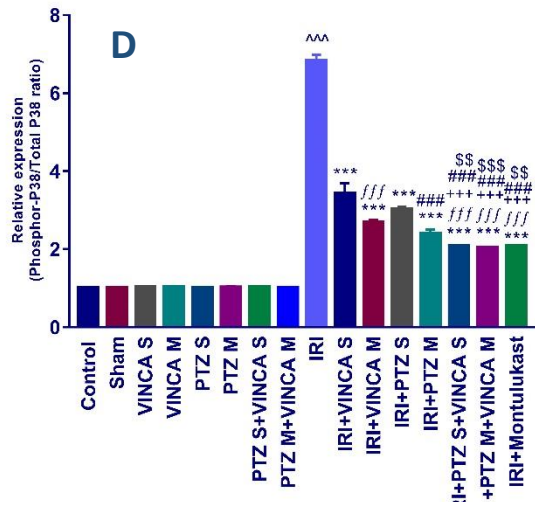
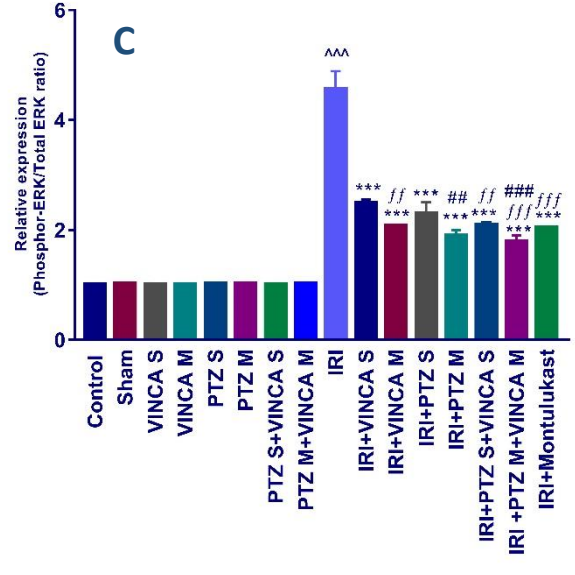
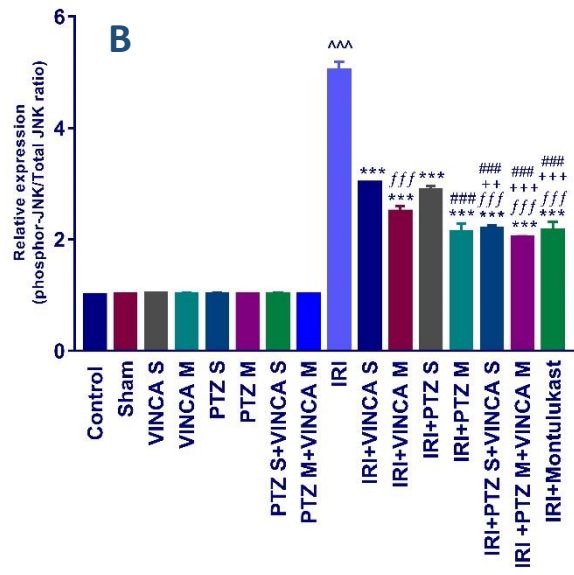


Figure S4. Effects on JNK1/2, ERK1/2, p38, caspase-3 and NF-kB proteins expression. (B, C, D, E, F) Expressions of phosphor-JNK1/2/total JNK1/2, phosphor-ERK1/2/total ERK1/2, phosphor-P38/total P38, cleaved caspase3/caspase-3 and total NF-kB proteins, respectively. Bars represent mean \pm SD. After the one-way ANOVA test, the Bonferroni post-hoc test was used to determine the statistical significance between the studied groups, where: $^{^^}$: $P < 0.001$, compared to the control animals. *** : $P < 0.001$, compared to the injured animals. $^{##}$: $P < 0.01$, and $^{###}$: $P < 0.001$, compared to the IRI + PTZ S group. $^{\$}$: $P < 0.05$, $^{\$\$}$: $P < 0.01$, and $^{\$ \$ \$}$: $P < 0.001$, compared to the IRI + PTZ M group. f : $P < 0.05$, and fff : $P < 0.001$ compared to the IRI + VINCA S group. $^{+}$: $P < 0.05$, $^{++}$: $P < 0.01$, and $^{+++}$: $P < 0.001$, compared to the IRI + VINCA M group.

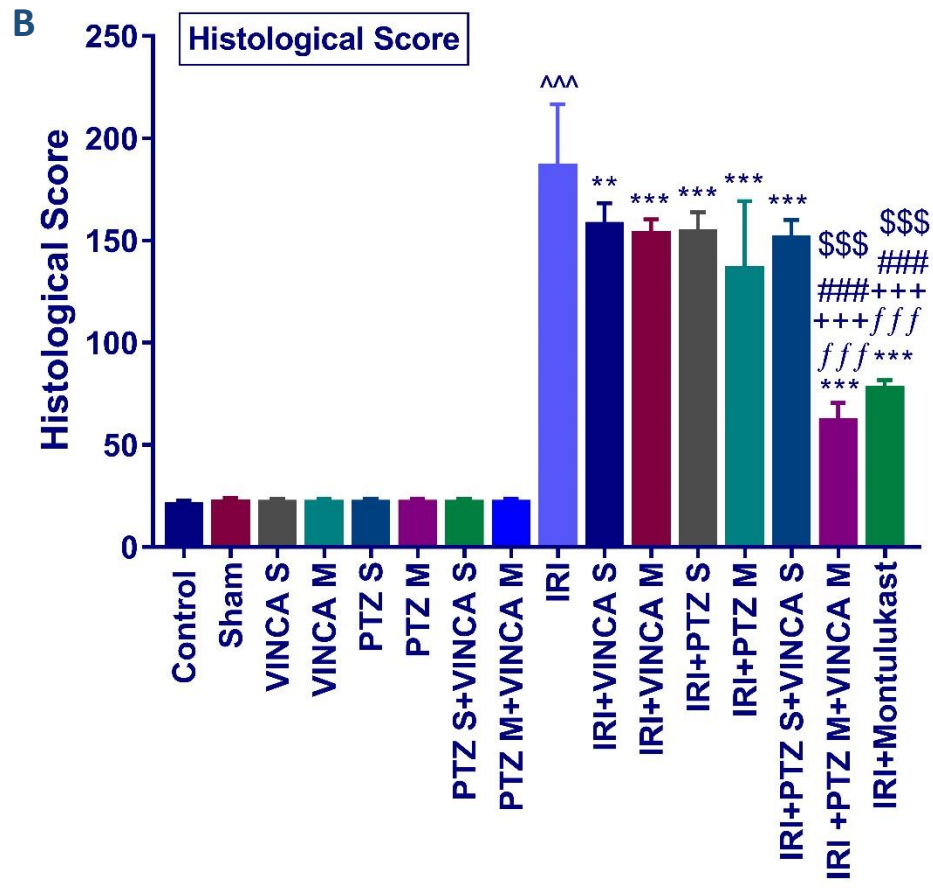


Figure S5 (B). Histological score regarding the damage of the studied groups: Control, Sham, VINCA S, VINCA M, PTZ S, PTZ M, VINCA S + PTZ S, VINCA M + PTZ M, IRI, (IRI + VINCA S), (IRI + VINCA M), (IRI + PTZ S), (IRI + PTZ M), (IRI + VINCA S + PTZ S), (IRI+VINCA M + PTZ M), (IRI + Montelukast) (IRI + Mont.) groups. Bars represent mean \pm SD. After the one-way ANOVA test, the Bonferroni post-hoc test was used to determine the statistical significance between the studied groups, where: $^{^^}$: $P < 0.001$, compared to the control animals. *: $P < 0.05$, **: $P < 0.01$, and ***: $P < 0.001$, compared to the injured animals. ###: $P < 0.001$, compared to the IRI + PTZ S group. \$\$\$: $P < 0.001$, compared to the IRI + PTZ M group. fff: $P < 0.001$ compared to the IRI + VINCA S group. +++: $P < 0.001$, compared to the IRI + VINCA M group.