**Supplementary Figures**

**Targeting CYP2J2 to enhance the anti-glioma efficacy of cannabinoid receptor 2 stimulation by inhibiting the pro-angiogenesis function of M2 microglia**

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**Supplementary Figure 1**

Supplementary Figure 1

Supplementary Figure 1. **The protein expression level of CYP2J2**. Data presented mean ± S.E.M., n=5; \*\**P*<0.001 significantly different from Control shRNA; Student’s *t* test (two-tailed, unpaired).

**Supplementary Figure 2**

Supplementary Figure 2

Supplementary Figure 2. **CCK8 assays were used to assess the effects of JWH133 and 11,12-EET on proliferation of glioma cells *in vitro*.** Data presented mean ± S.E.M., n=5; \*\*\*\**P*<0.0001 significantly different from control group, one-way ANOVA followed by Tukey’s post hoc test.

**Supplementary Figure 3**

Supplementary Figure 3

Supplementary Figure 3. **CCK8 assays were used to assess the effects of JWH133 and CYP2J2 shRNA on proliferation of glioma cells *in vitro*.** Data presented mean ± S.E.M., n=5; \*\*\**P*<0.001 significantly different from control shRNA group, one-way ANOVA followed by Tukey’s post hoc test.

**Supplementary Figure 4**

Supplementary Figure 4 

Supplementary Figure 4. **MRI images of the mice on days 14 after tumor implantation.** (A)T2-weighted imaging, (B)volume of the tumor. Values are expressed as the means ± S.E.M., n=5; \*\**P*<0.01, \**P*<0.05, one-way ANOVA followed by Tukey’s post hoc test.

**Supplementary Figure 5**



Supplementary Figure 5. **Kaplan–Meier survival curves of mouse models after corresponding treatments**. Combined treatment of JWH133 and CYP2J2 shRNA significantly prolonged the survival of mice bearing the glioma xenografts. n=8, log-rank test.