



評估蟲草萃取物(宏潤)之醫療應用

- (1) 抑制抗藥性肺癌細胞
- (2) 保護皮膚對抗UV防止老化

5th Jan.2022

花蓮慈濟醫院 心血管暨粒線體相關疾病研究中心

評估蟲草萃取物(宏潤)抑制肺癌細胞生長的效果

(1)肺癌細胞 (2)抗藥性肺癌細胞

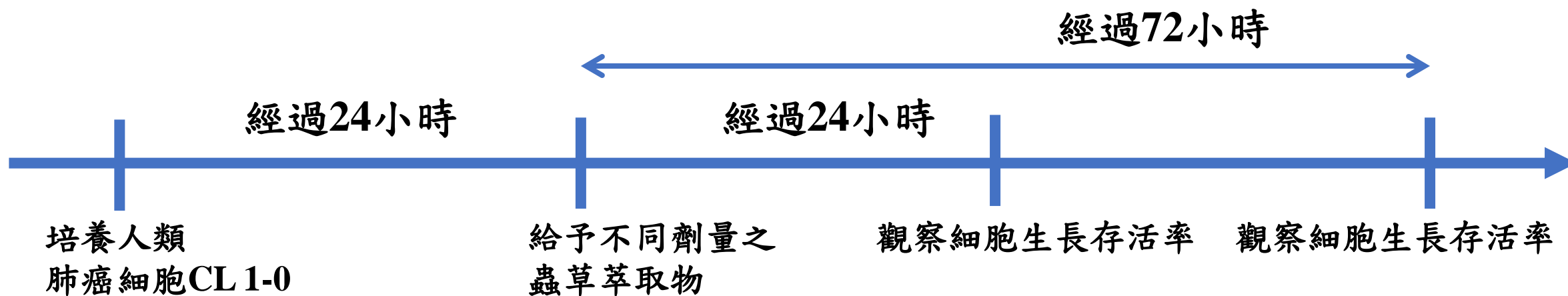
5th Jan.2022

花蓮慈濟醫院 心血管暨粒線體相關疾病研究中心

蟲草萃取物(宏潤)對抗肺癌細胞生長的細胞模型

人類肺腺癌細胞

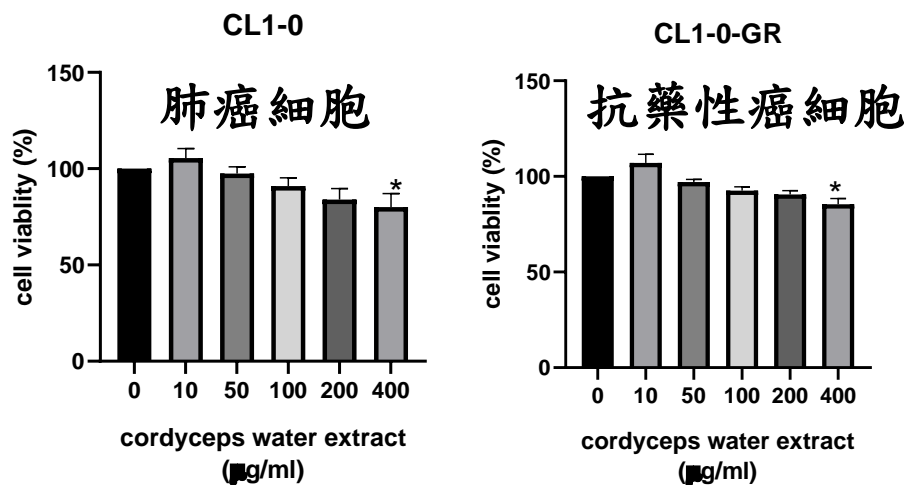
CL 1-0、CL 1-0 抗藥性(Gemcitabine)



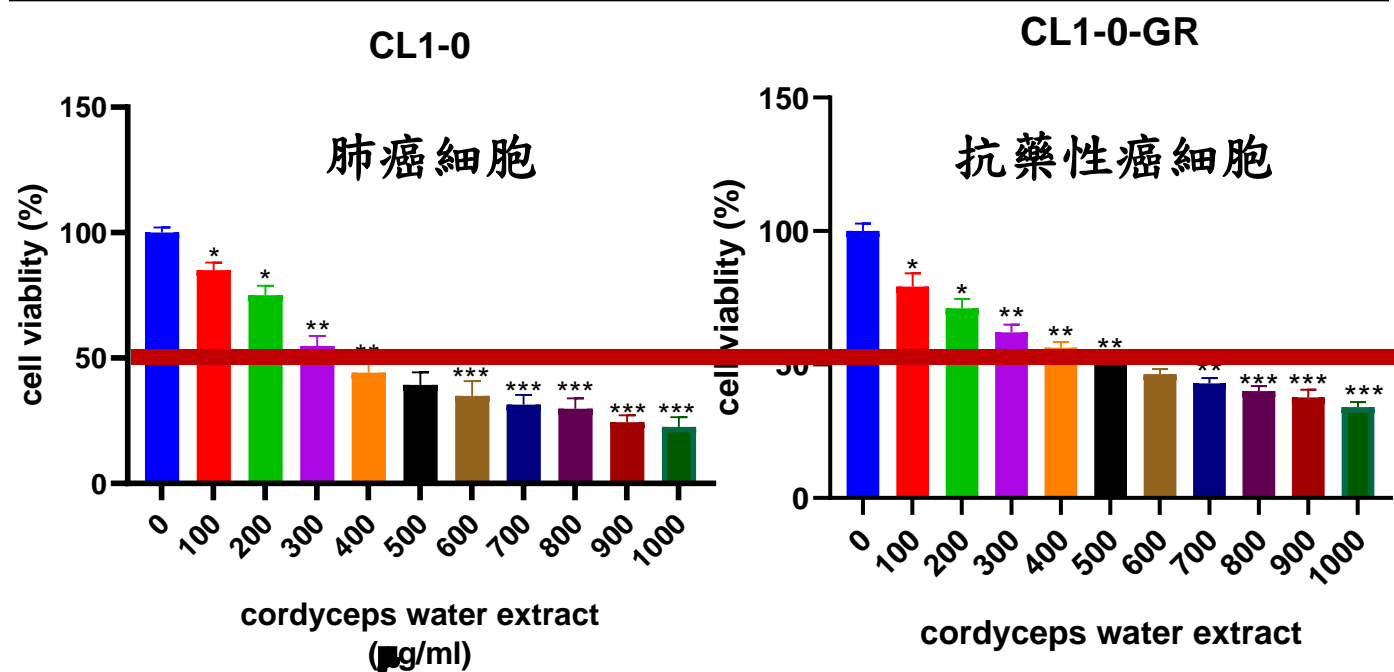
蟲草萃取物(宏潤) 抑制肺癌、抗藥性肺癌細胞生長

人類肺腺癌細胞 CL 1-0、CL 1-0 抗藥性(Gemcitabine)

蟲草萃取物治療24小時



蟲草萃取物治療72小時



- ① 蟲草萃取物能抑制肺癌細胞生長，也能毒殺抗藥性癌細胞。
- ② 蟲草萃取物治療24、72小時都有毒殺抗藥性癌細胞的效果。

蟲草萃取物(宏潤)抑制肺癌細胞生長之效果

- ① 蟲草萃取物能抑制肺癌細胞生長，也能毒殺抗藥性癌細胞。
- ② 蟲草萃取物治療24就能毒殺抗藥性癌細胞，
400ug/ml 就可以抑制約20%肺癌細胞、10%抗藥性癌細胞生長。
- ③ 延長治療時間至72小時，能更有效的抑制癌細胞生長，
300ug/ml 能抑制 50% 肺癌細胞、
400ug/ml 可毒殺 50% 抗藥性肺癌細胞。

評估蟲草萃取物(宏潤)對抗UV保護皮膚的效果

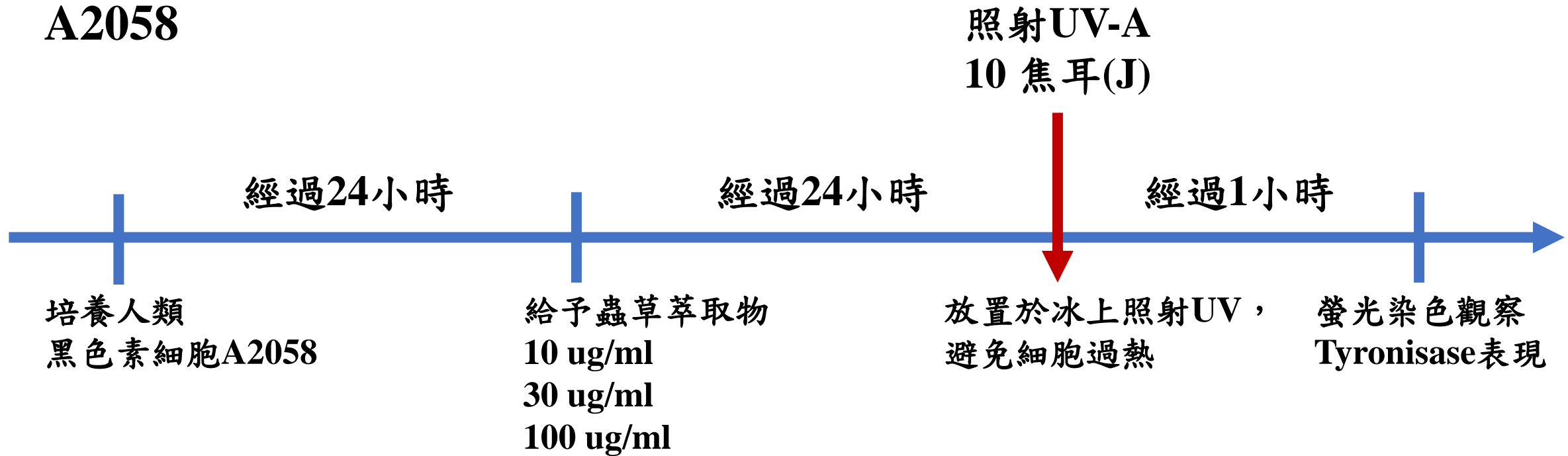
(1)美白效果 (2)皮膚老化 (3)皮膚癌化

5th Jan.2022

花蓮慈濟醫院 心血管暨粒線體相關疾病研究中心

蟲草萃取物(宏潤) 對抗UV誘導黑色素生成的細胞模型

人類黑色素細胞
A2058



蟲草萃取物(宏潤)有效抑制Tyronisase，對抗UV誘導的黑色素生成

UV-A 10 J

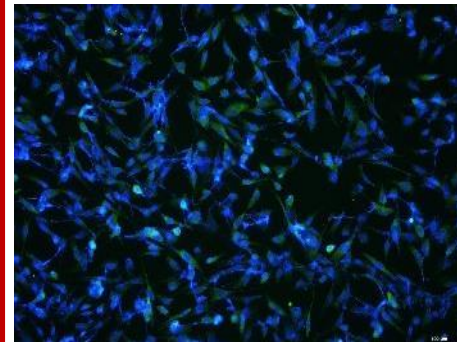
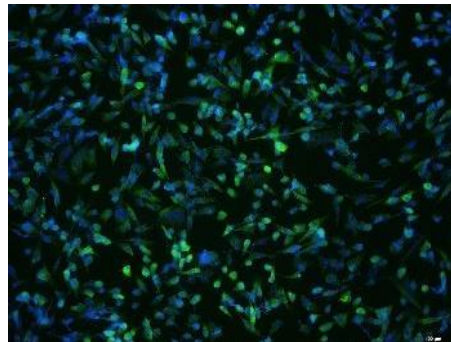
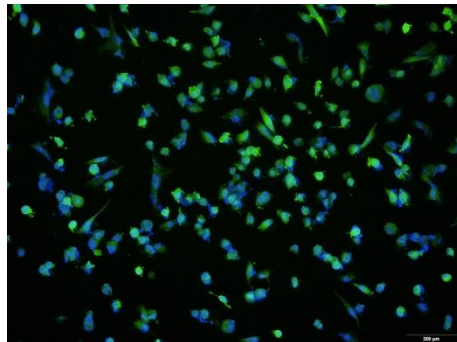
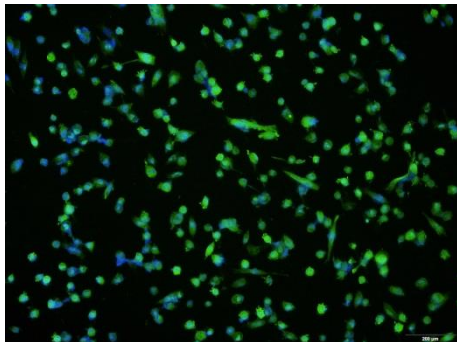
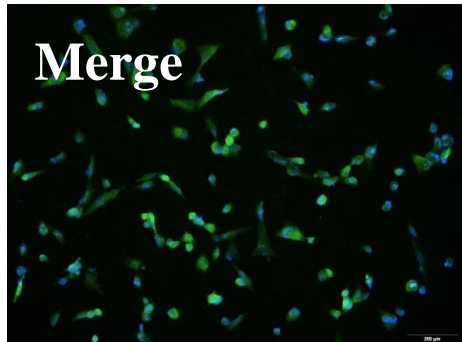
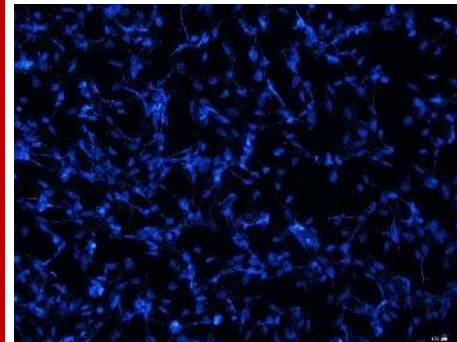
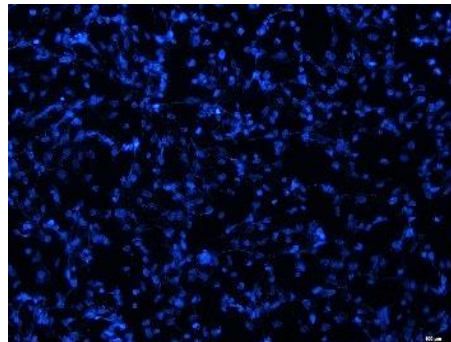
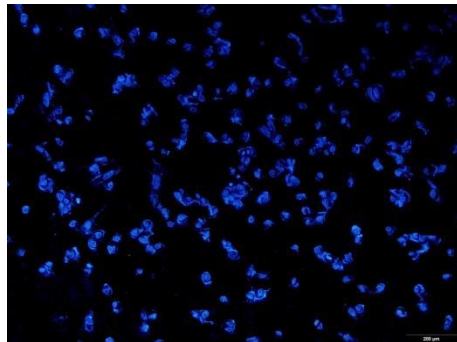
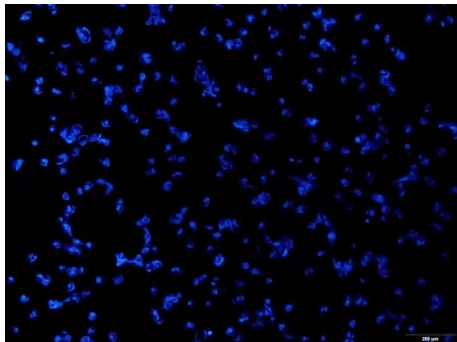
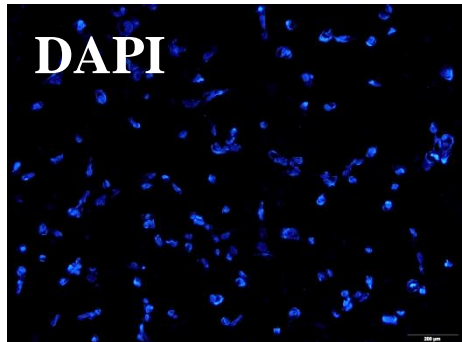
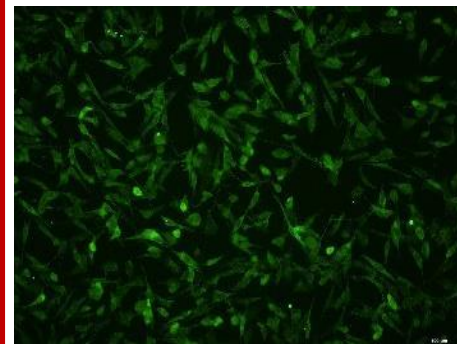
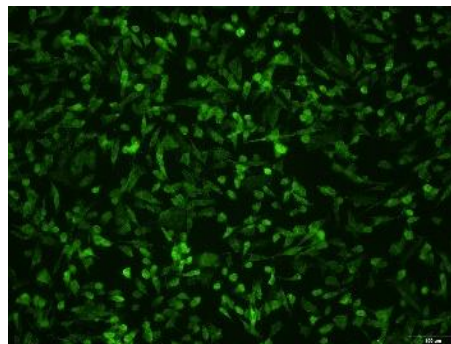
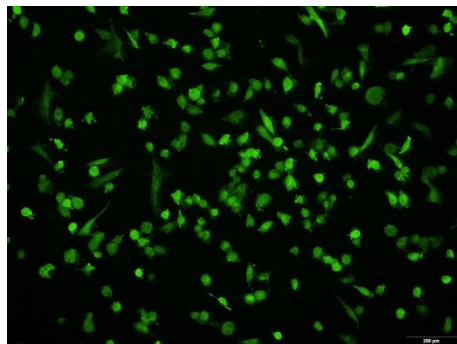
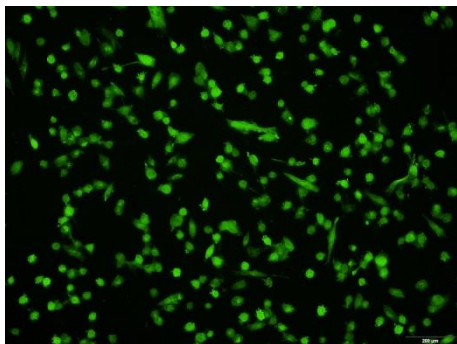
- A2058細胞
- 蟲草萃取物 0 ug/ml
- 沒有照射UV-A

蟲草萃取物
0 ug/ml

蟲草萃取物
10 ug/ml

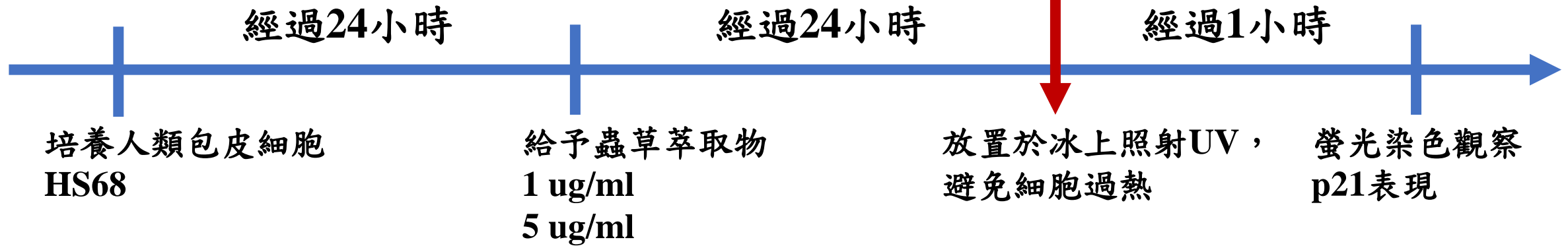
蟲草萃取物
30 ug/ml

蟲草萃取物
100 ug/ml



蟲草萃取物(宏潤)對抗UV誘導皮膚老化細胞模型

人類包皮纖維細胞
foreskin fibroblast
HS68



蟲草萃提取物(宏潤)對抗UV誘導皮膚老化(p21蛋白)

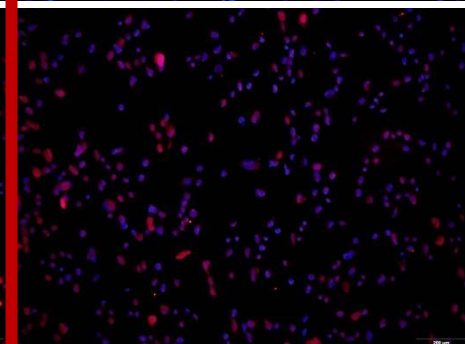
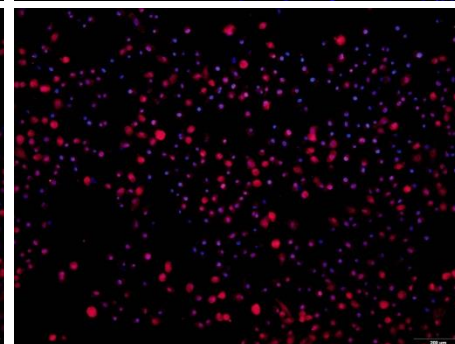
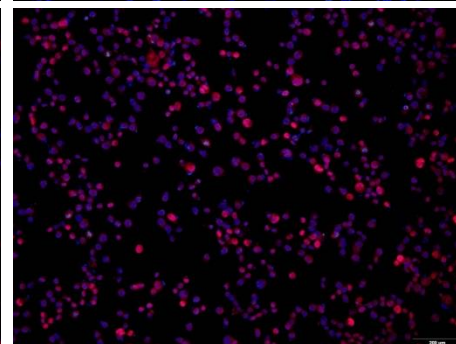
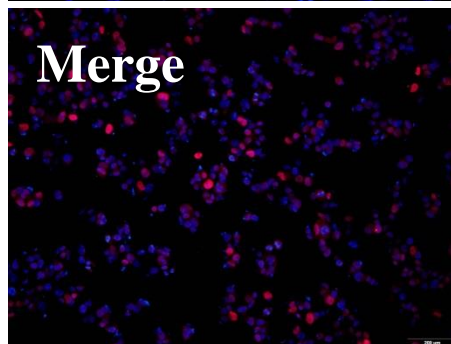
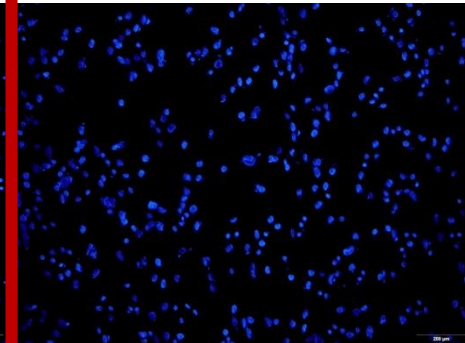
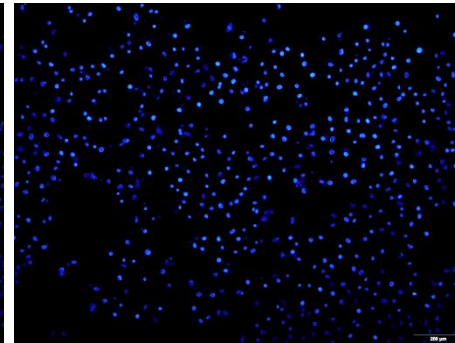
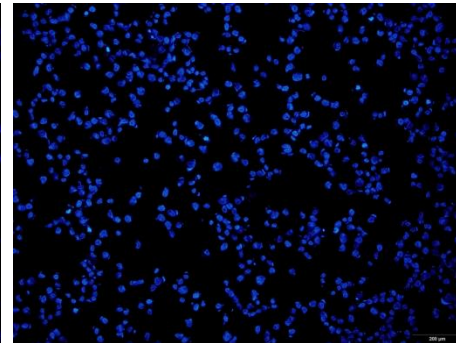
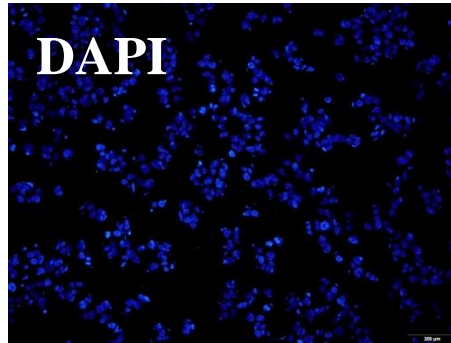
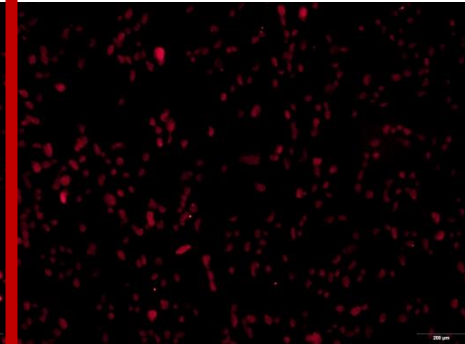
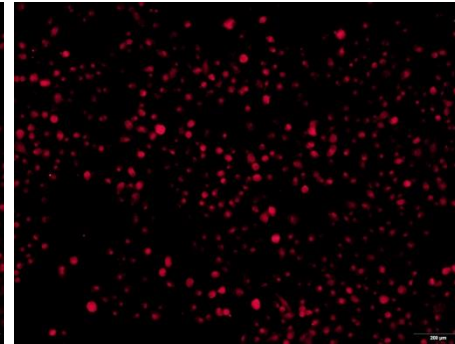
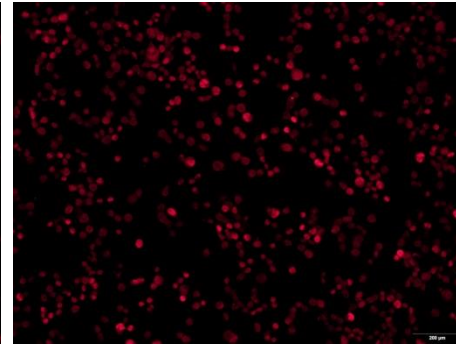
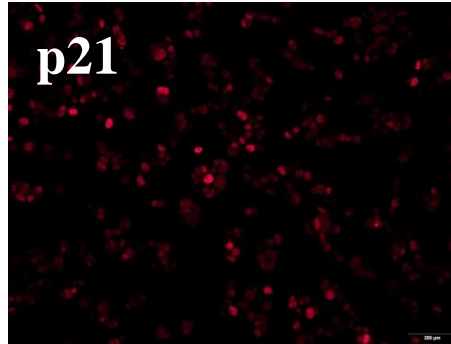
UV-A 10 J

- HS68細胞
- 蟲草萃提取物 0 ug/ml
- 沒有照射UV-A

蟲草萃提取物
0 ug/ml

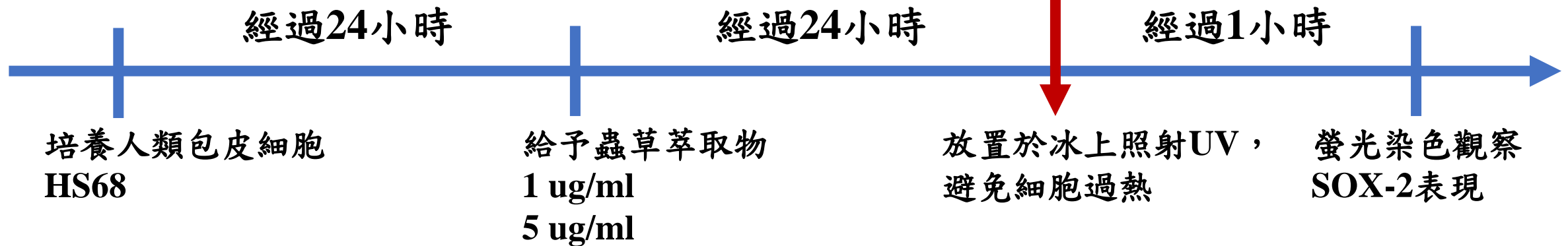
蟲草萃提取物
1 ug/ml

蟲草萃提取物
5 ug/ml



蟲草萃取物(宏潤)對抗UV誘導皮膚癌化細胞模型

人類包皮纖維細胞
foreskin fibroblast
HS68



蟲草萃取物(宏潤)對抗UV誘導皮膚癌化(SOX-2蛋白)

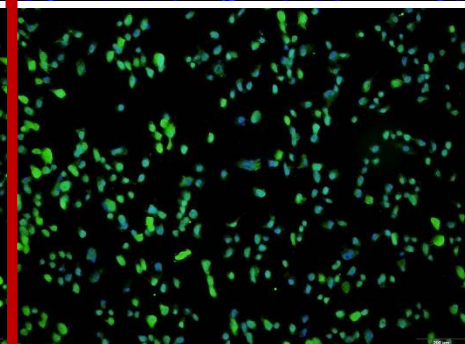
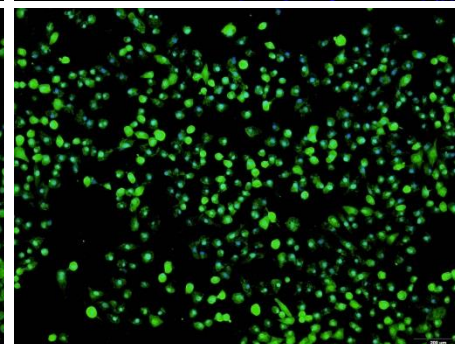
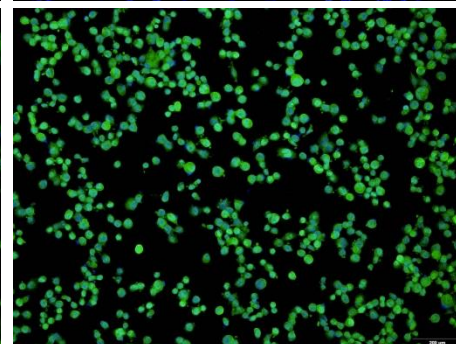
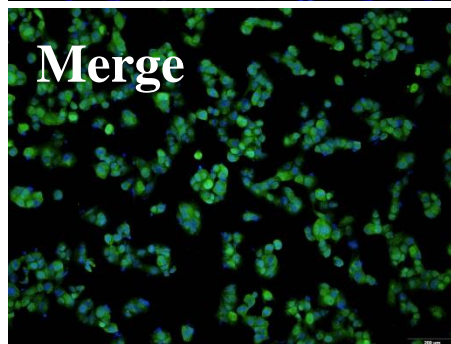
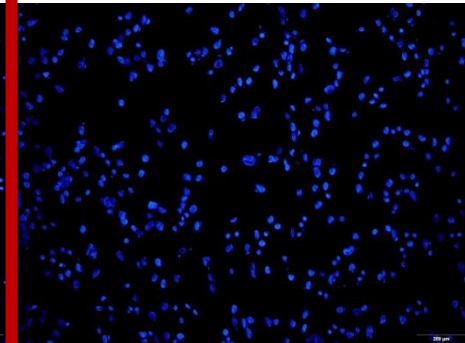
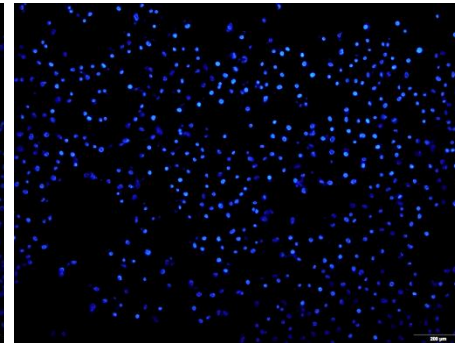
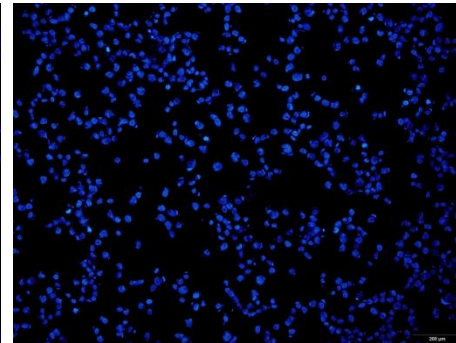
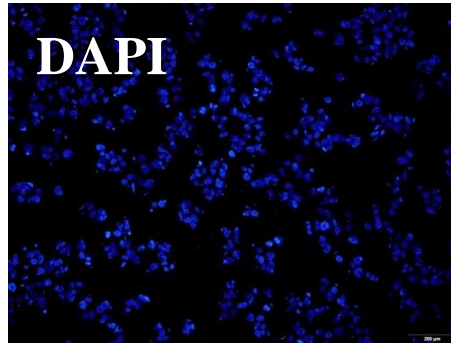
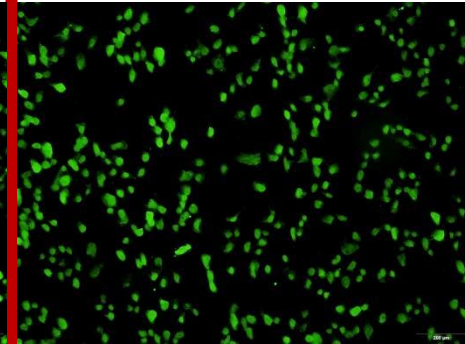
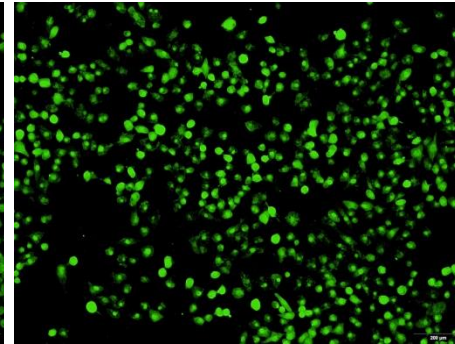
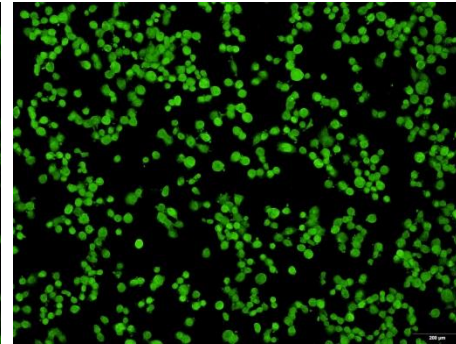
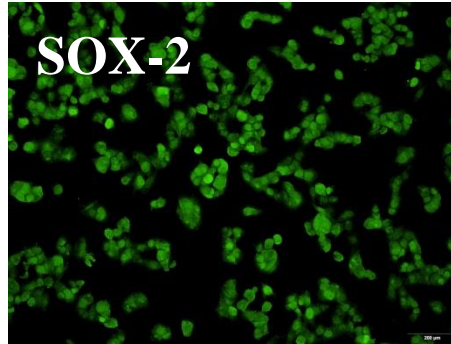
UV-A 10 J

- HS68細胞
- 蟲草萃取物 0 ug/ml
- 沒有照射UV-A

蟲草萃取物
0 ug/ml

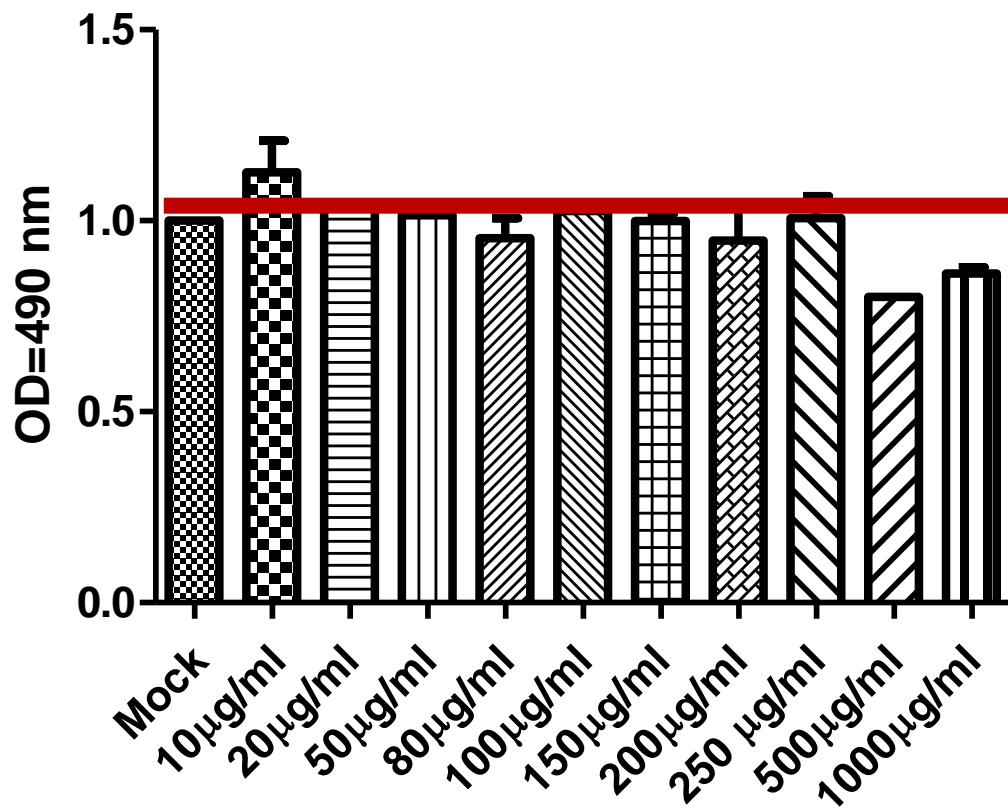
蟲草萃取物
1 ug/ml

蟲草萃取物
5 ug/ml

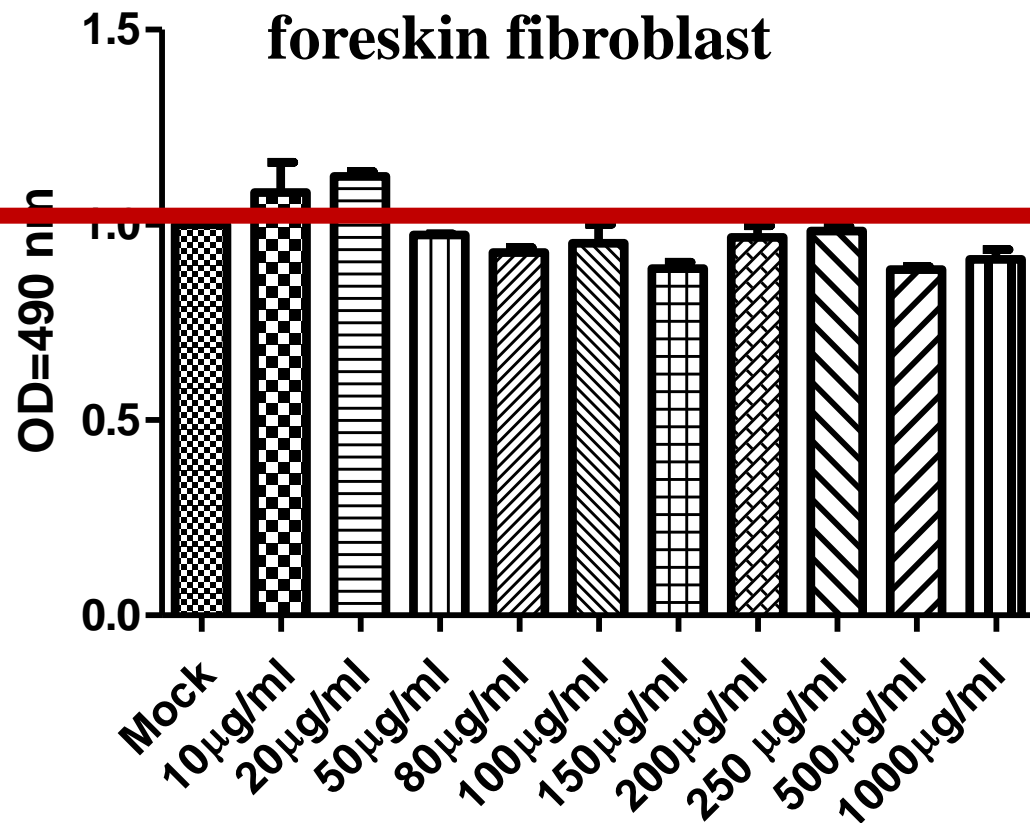


評估蟲草萃取物(宏潤)對皮膚細胞的毒性影響

HacaT人類角質細胞

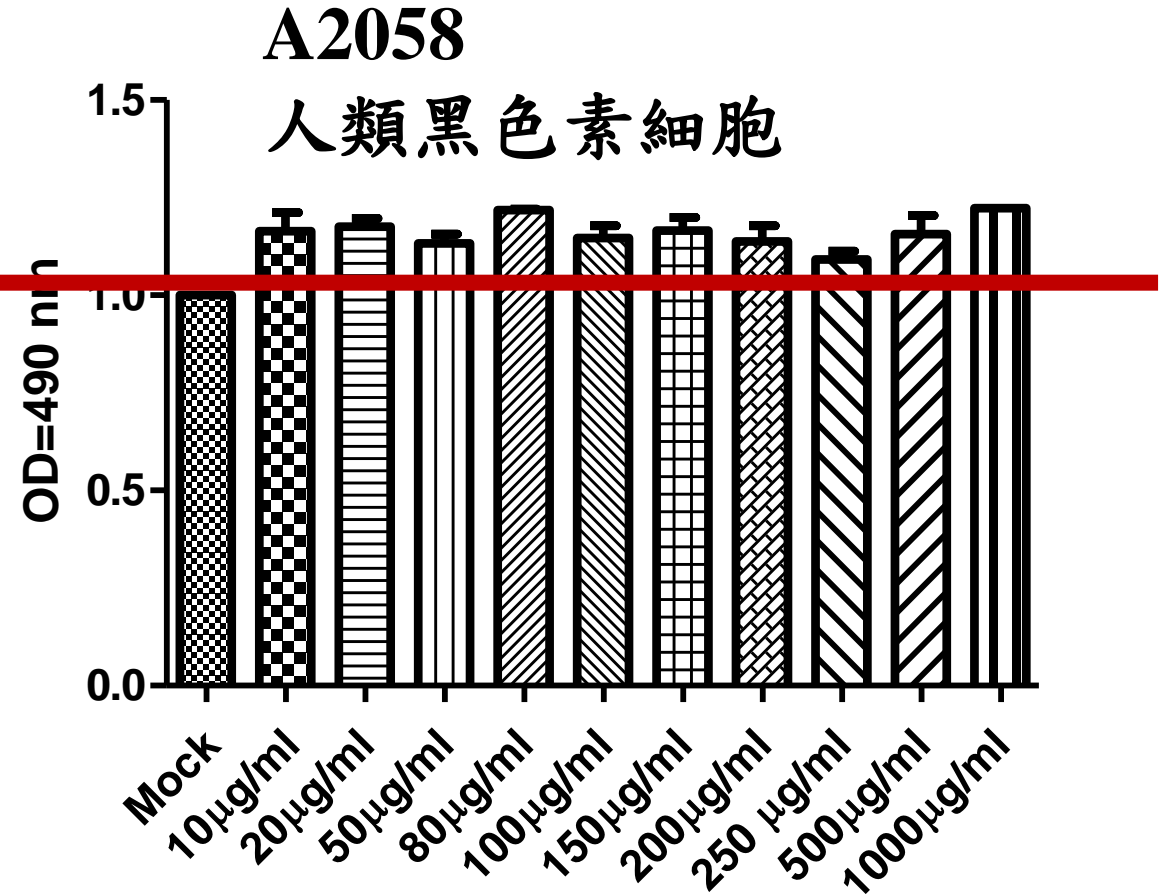
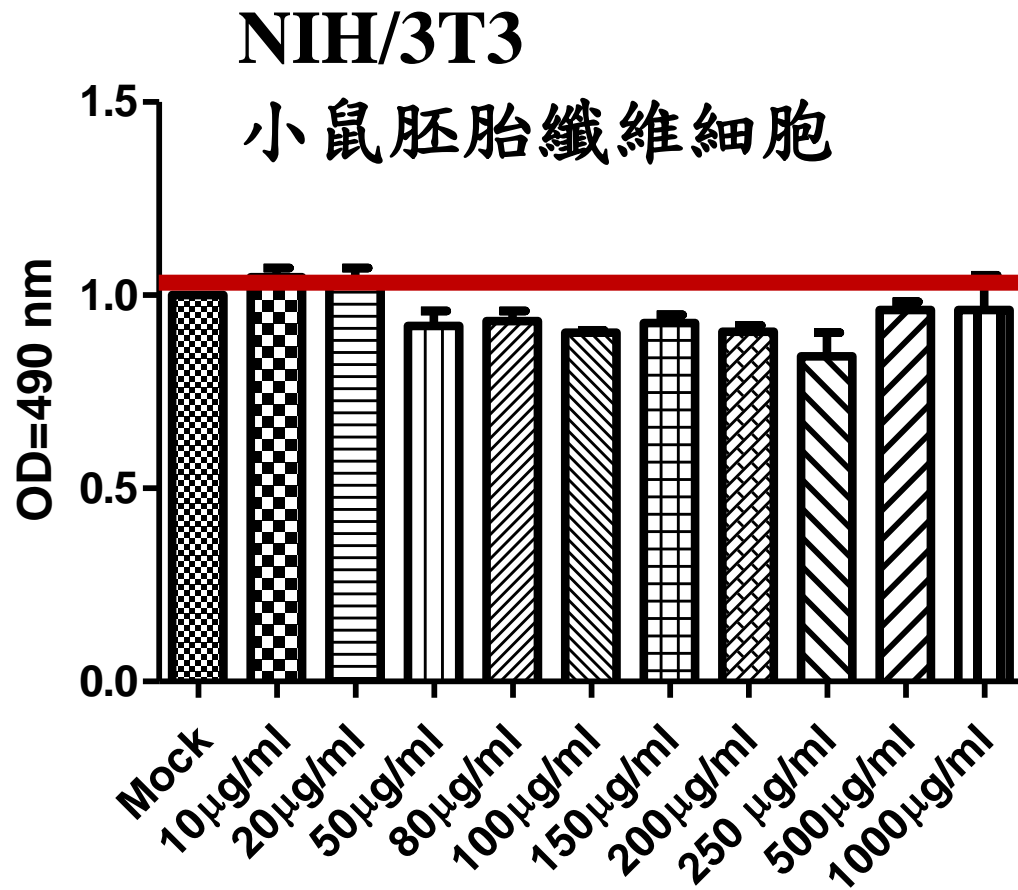


HS 68人類包皮纖維細胞 foreskin fibroblast



蟲草萃取物對包皮細胞(>80ug/ml)、對角質細胞(>500ug/ml)僅有低毒性

評估蟲草萃取物(宏潤)對皮膚細胞的毒性影響



- ① 蟲草萃取物對人類黑色素細胞沒有毒性
- ② 蟲草萃取物對小鼠胚胎纖維細胞(>50ug/ml)僅有些微毒性

蟲草萃取物(宏潤)對抗UV保護皮膚之效果

- ① 蟲草萃取物(宏潤)能**抑制**UV誘導的**黑色素生成**，
30ug/ml就能有效抑制Tyronisase，劑量越高(100ug/ml)效果越好。
- ② 蟲草萃取物(宏潤)能**對抗**UV誘導的**皮膚老化及癌化**，
5ug/ml就能有效抑制p21老化、SOX-2癌化蛋白表現。
- ③ 蟲草萃取物對A2058人類黑色素細胞沒有毒性，
對HS 68包皮細胞(>80ug/ml)、HacaT角質細胞(>500ug/ml)、
小鼠胚胎纖維細胞(>50ug/ml)僅有微毒性。