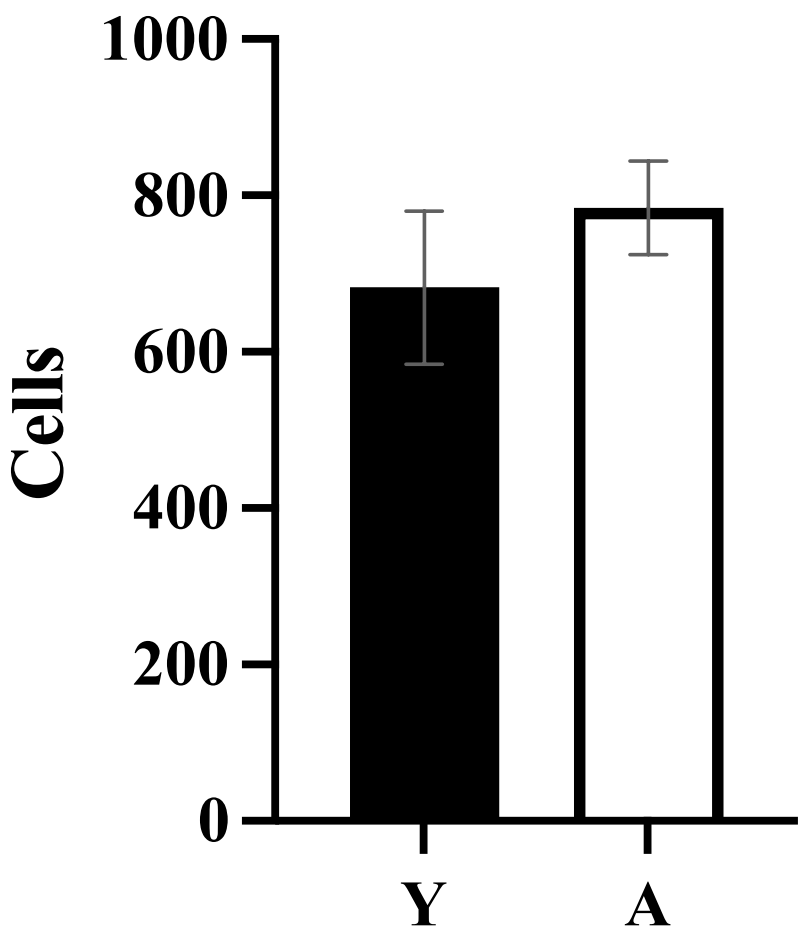
**Harper et al., Supplemental Data**

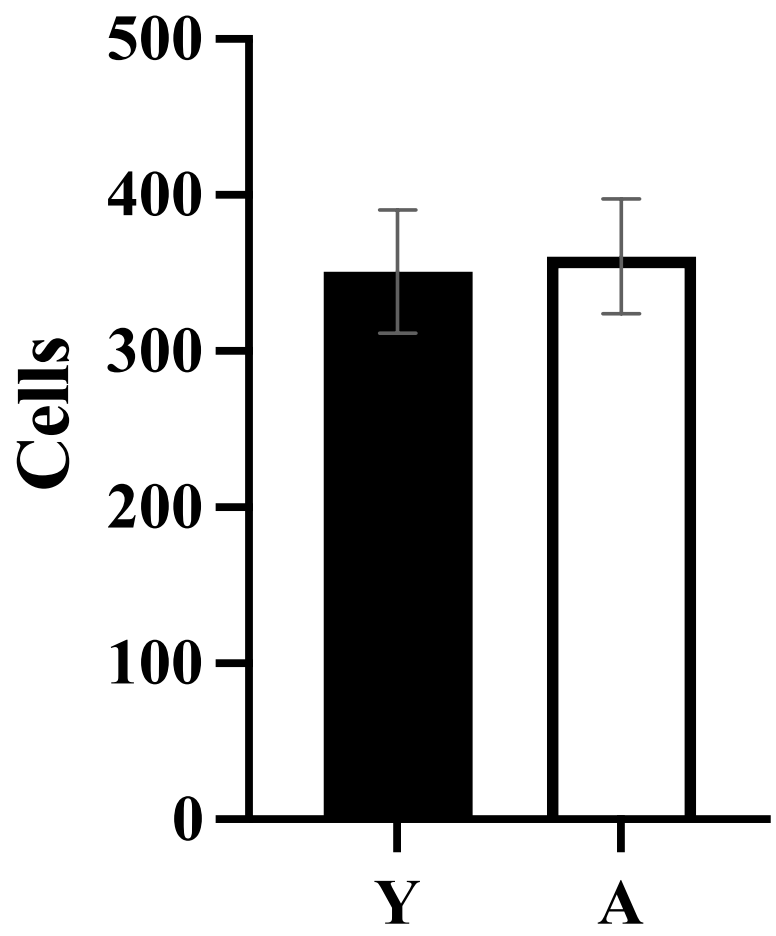
**Supplemental Figure Legends**

**Supplemental Figure 1. Effect of young *vs* aged collagen on OvCa cell adhesion and proliferation.** (A) Adhesion to collagen. OVCAR5 and OVCAR8 cells ($5x10^5$) were seeded on culture plates lined with collagen isolated from young (Y, black bars) or aged (A, white bars) mice for 30 min (OVCAR5) or 45 min (OVCAR8), followed by washing and enumeration of adherent cells. There was no significant difference in adhesion (n=3; p=0.42 OVCAR5, p=0.087 OVCAR8). (B) Proliferation on collagen. OVCAR5 and OVCAR8 cells ($3x10^3$) were seeded on culture plates lined with collagen isolated from young (Y, black bars) or aged (A, white bars) mice for 24 hours, followed by analysis of proliferation using the XTT Cell Proliferation Assay Kit. There was no significant difference in proliferation (n=3, p=0.48 OVCAR5, p=0.09 OVCAR8) in either cell line.

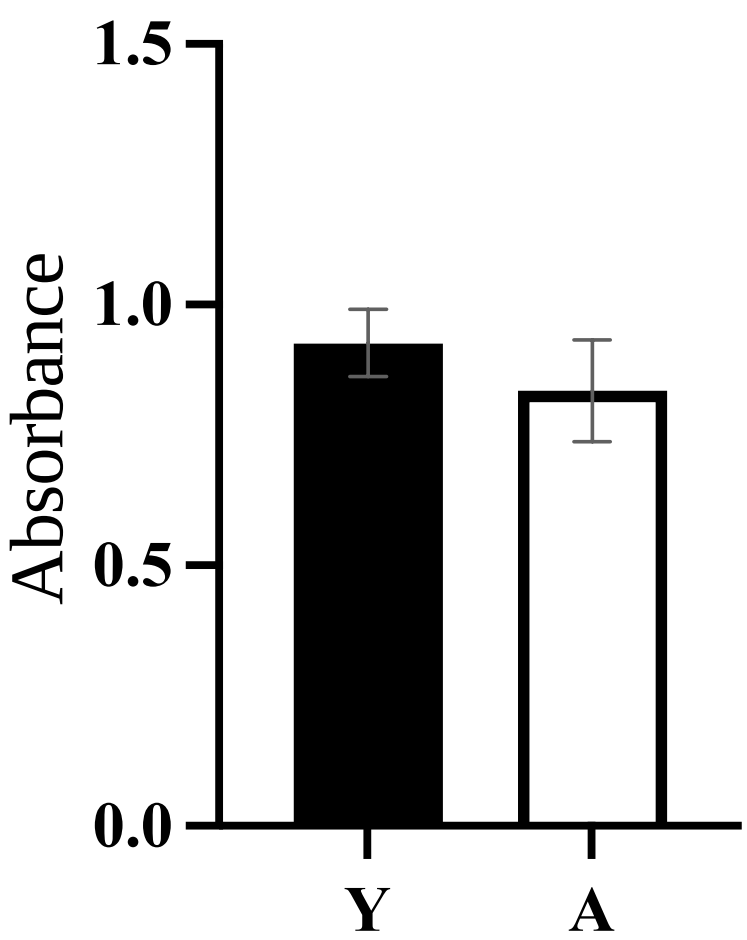
**Supplemental Figure 2. Expression of MT1-MMP.** (A) OVCAR5 and OVCAR8 cell lysates (20ug) were electrophoresed on an SDS-PAGE gel, transferred to a PVDF membrane, and probed for the presence of MT1-MMP (MMP14) with anti-MMP-14 (1:2000) and developed with a peroxidase-conjugated secondary antibody (1:4000) and ECL detection. (B) Densitometric quantification showed an increase in MMP-14 expression in OVCAR8 as compared to OVCAR5 (n=3, p=0.01).

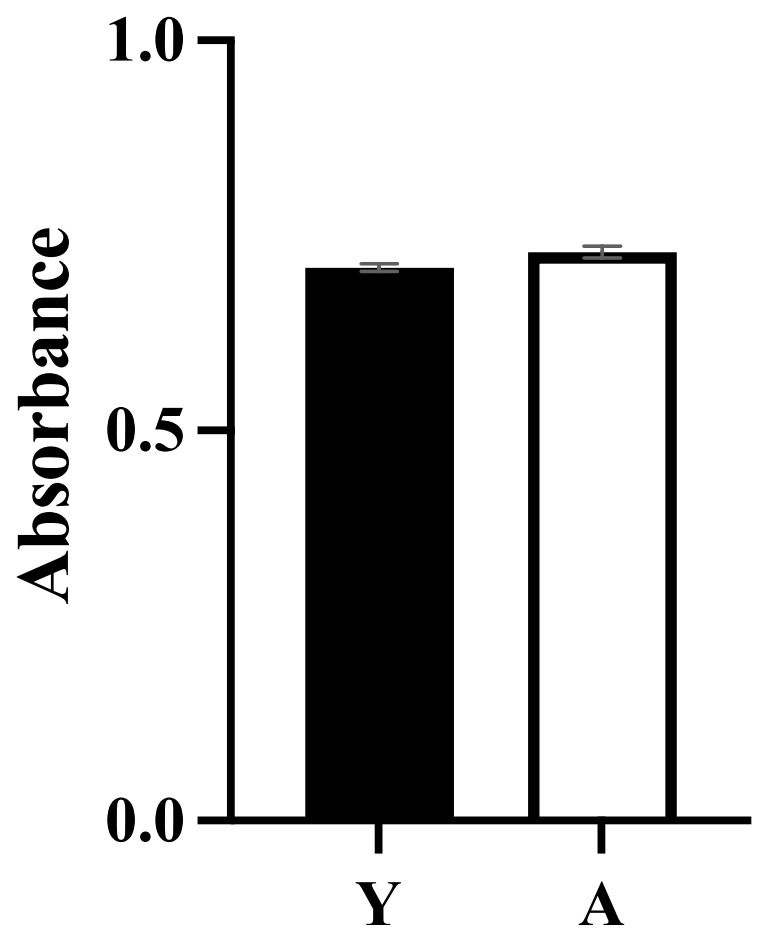
A

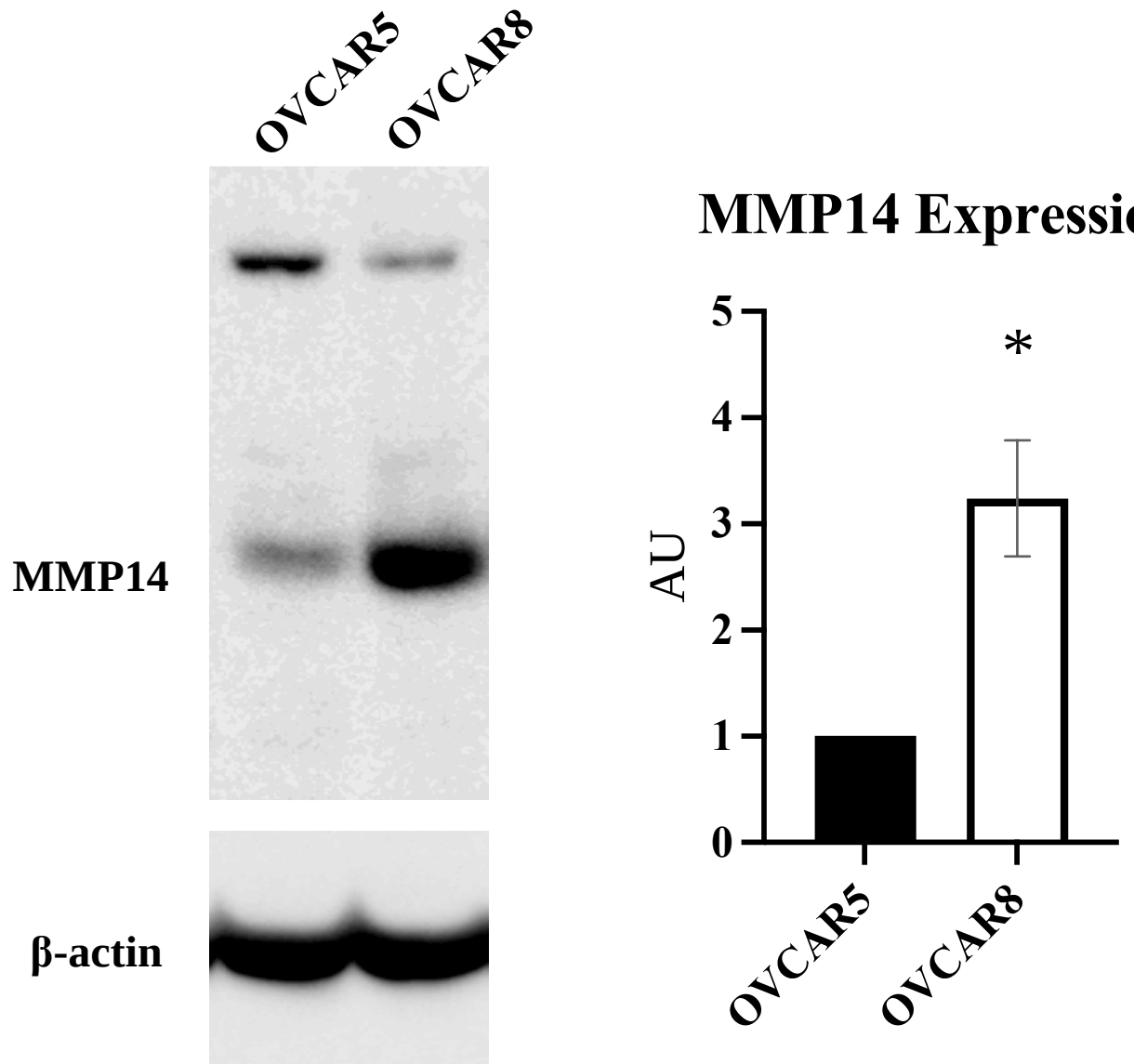

OVCAR5 Adhesion
Cells
1000
800
600
400
200
0
Y
A


OVCAR8 Adhesion
Cells
500
400
300
200
100
0
Y
A

B


OVCAR5 Proliferation
Absorbance
1.5
1.0
0.5
0.0
Y
A


OVCAR8 Proliferation
Absorbance
1.0
0.5
0.0
Y
A


OVCAR5
OVCAR8
MMP14
β-actin
MMP14 Expression
AU
0
1
2
3
4
5
*
OVCAR5
OVCAR8