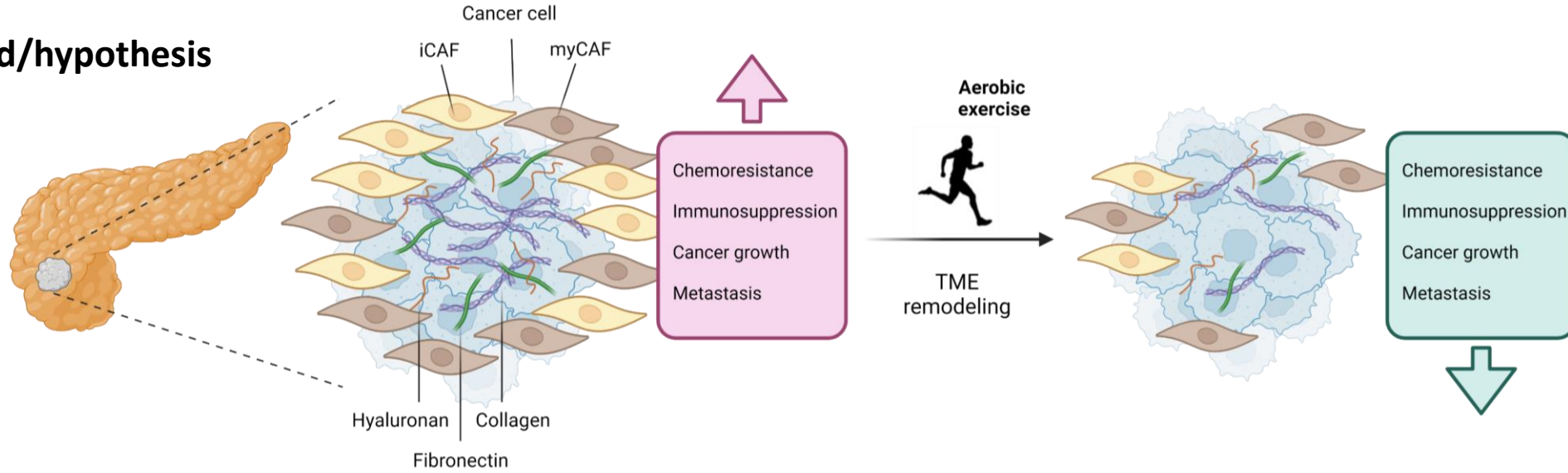
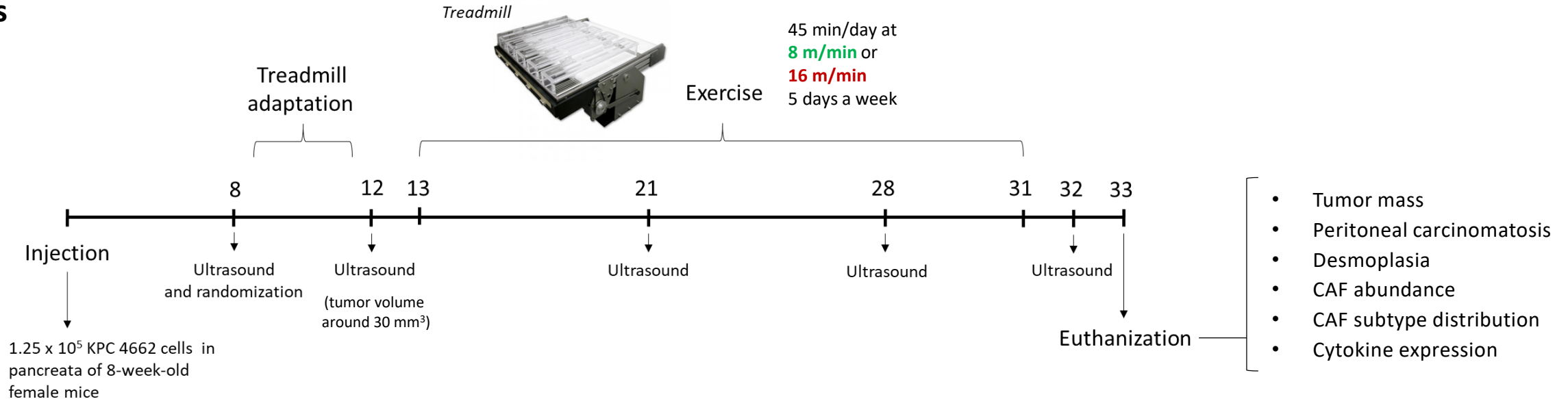


Aerobic exercise impacts the tumor microenvironment by altering CAF abundance and composition in pancreatic cancer

Background/hypothesis



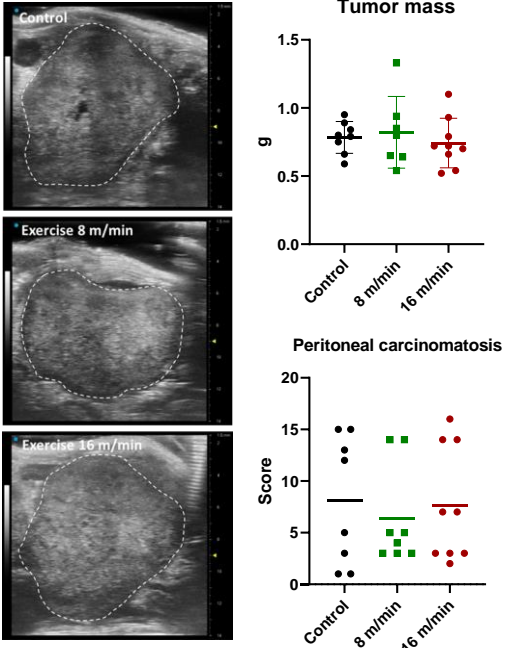
Methods



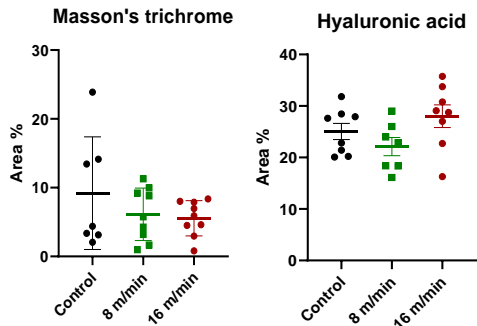
Results

Exercise at 8 and 16 m/min does not impact on PDAC growth, spreading and desmoplasia

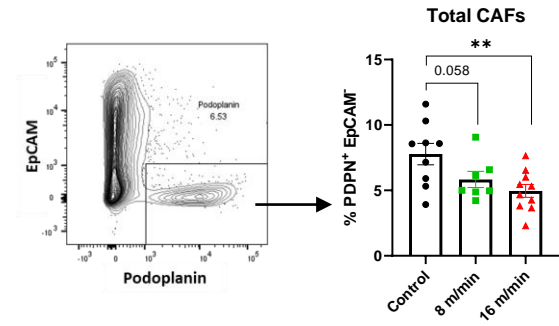
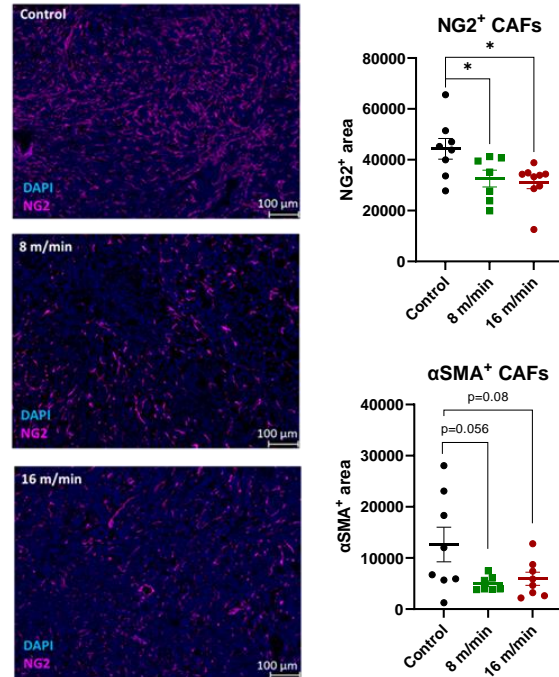
Day 32



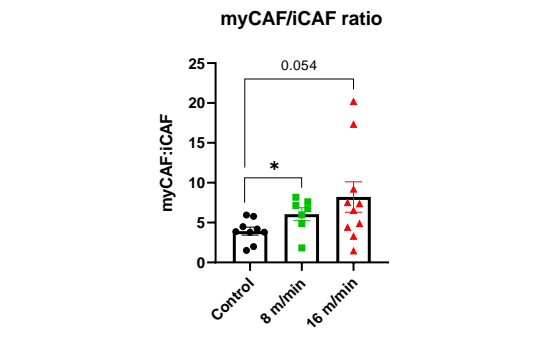
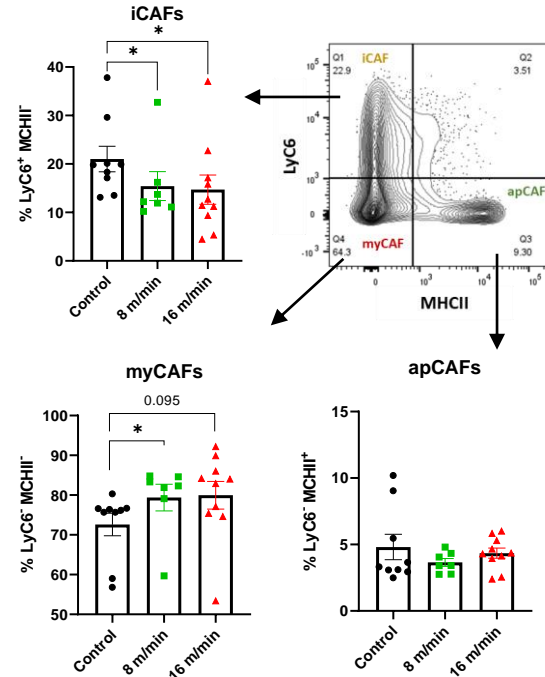
Desmoplasia



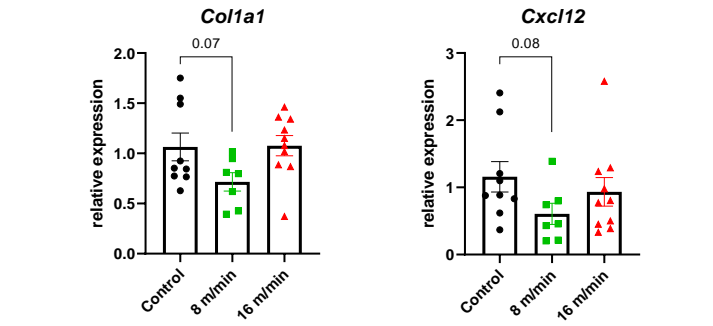
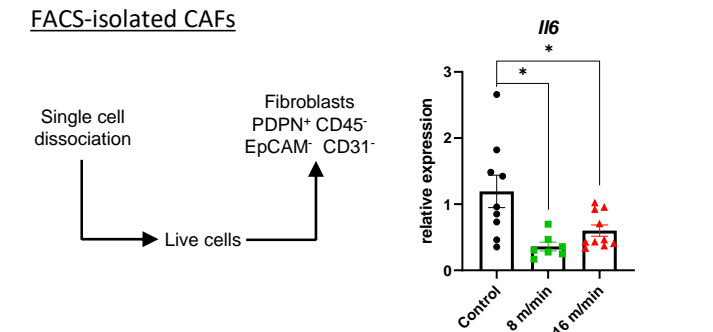
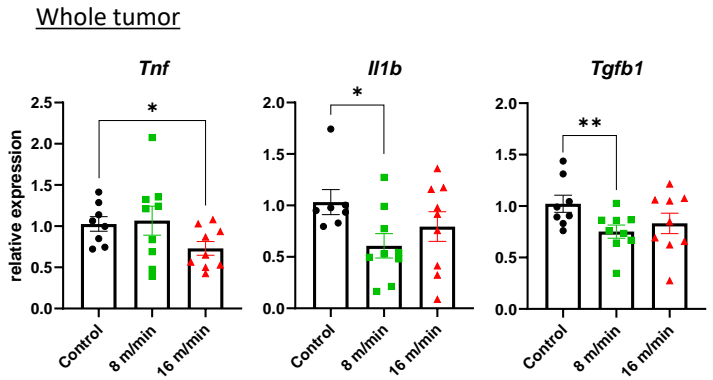
Exercise at 8 and 16 m/min reduces CAF abundance in PDAC



Exercise at 8 and 16 m/min impacts on CAF subtype distribution in PDAC



Exercise at 8 and 16 m/min reduces the expression of CAF-related cytokines in PDAC



Conclusions

PDAC	8 m/min	16 m/min
Growth and invasion	No change —	No change —
Desmoplasia	No change —	No change —
CAF abundance	Reduces ↓	Reduces ↓
myCAF/iCAF ratio	Increases ↑	Increases ↑
CAF-related cytokine expression	Reduces ↓	Reduces ↓

- Exercise decreases the total amount of CAFs and alters the CAF composition by increasing myCAF and reducing iCAF.
- Due to the relevance of the CAF heterogeneity in PDAC chemoresistance and immunosuppression, further studies are needed to test the synergistic effect of exercise with chemotherapy or ICB on tumor growth.

Thanks for your attention