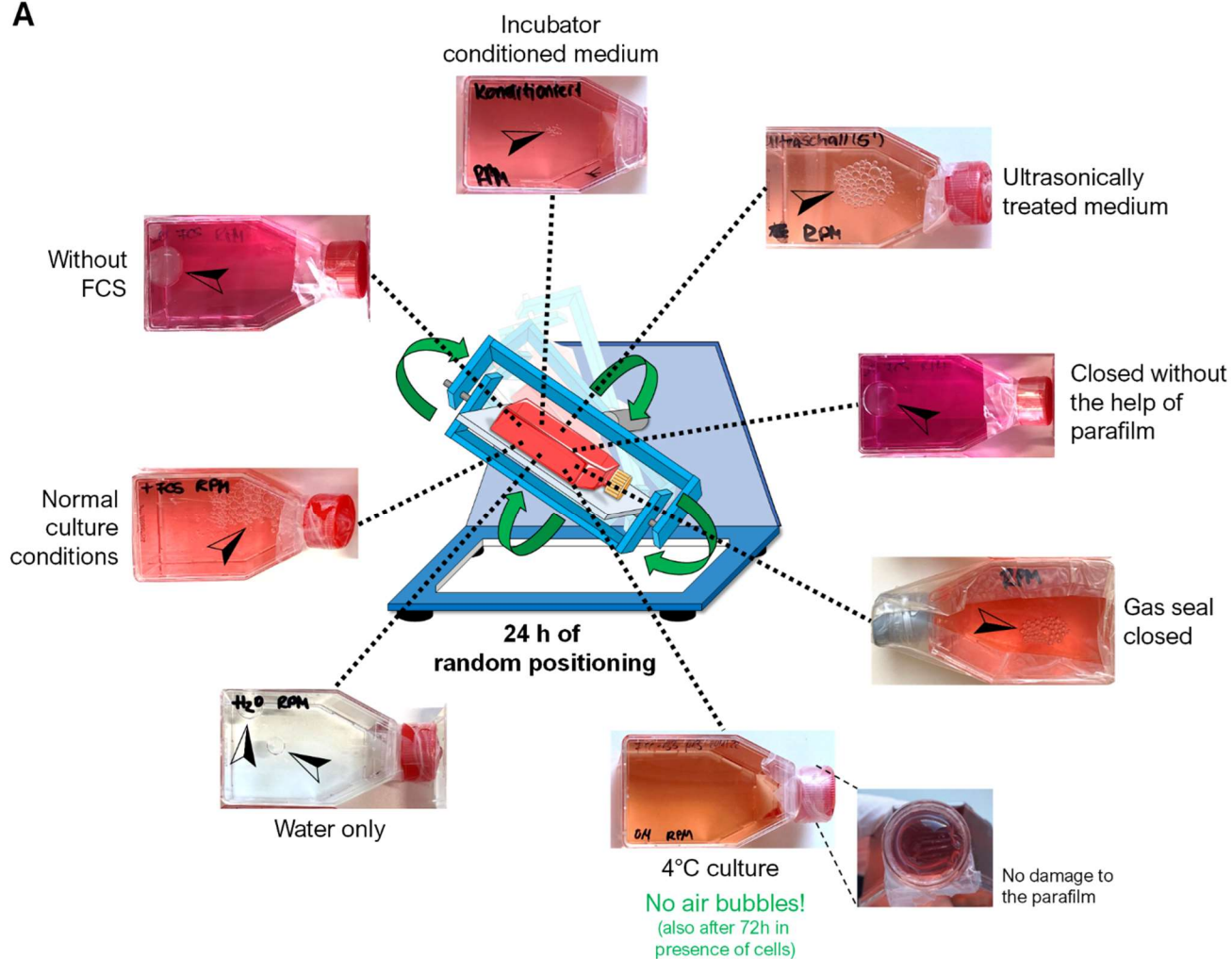


A



B

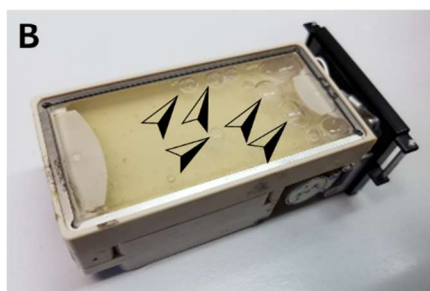


Figure S1. Occurrence of air bubbles under different cell culture conditions and handling of cell culture flasks. **(A)** Bubble formation (indicated by black arrows) in bubble-free filled T25 cell culture flasks after 24 h of random positioning under different conditions (without cells). **(B)** Flight container of the CellBox-2 experiment after its return from the ISS. Parts of the figure were drawn by using pictures from Servier Medical Art.

Table S1. Antibodies used for immunofluorescence analyses.

Antibody (anti-...)	Company, Product Nr.		Species	Dilution IF
β -catenin	Invitrogen, #71-2700		Rabbit	1:100
p38 MAPK α	Invitrogen, #MA5-15116		Mouse	1:1000
MRTF-A/MKL1	Santa-Cruz, #sc-390324		Rabbit	1:100
NF κ B p65 (RelA)	Invitrogen, #510500		Mouse	1:500
YAP1	Sigma-Aldrich, #WH0010413M1		Mouse	1:1000

Secondary antibody	Labelling	Company, Product Nr.	Dilution
anti-Mouse	AF488	Invitrogen, #A1101	1:1000
	AF647	Invitrogen, #A21235	1:1000 for MRTF-A: 1:500
anti- Rabbit	AF488	Invitrogen, #A11008	1:1000
	AF647	Invitrogen, #A21244	1:500

AF, Alexa Fluor; IF, immunofluorescence.

Table S2. Primer sequences for quantitative real-time PCR.

Gene	Primer Name	Sequence (5'→3')
<i>18S rRNA</i>	18S-F	ggAgCCTgCggCTTAATTT
	18S-R	CAACTAAgAACggCCATgCA
<i>ANKRD1</i>	ANKRD1-F	AgCgCCCgAgATAAgTTgC
	ANKRD1-R	gTCTgCCTCACAggCgATAA
<i>CAV1</i>	CAV1-F	CCACgggCCAgCATgT
	CAV1-R	gCCTTgTTgTTgggCTTgTAg
<i>CCN2 (CTGF)</i>	CTGF-F	ACAAGggCCTCTTCTgTgACTT
	CTGF-R	ggTACACCgTACCACCgAAgAT
<i>CXCL8</i>	IL8-F	TggCAgCCTTCCTgATTTCT
	IL8-R	gggTggAAAgTTTggAgTATg
<i>FN1</i>	FN1-F	AgATCTACCTgTACACCTTgAATgACA
	FN1-R	CATgATACCAgCAAggAATTgg
<i>ICAM1</i>	ICAM1-F	CggCTgACgTgTgCAgTAAT
	ICAM1-R	CTTCTgAgACCTCTggCTTCgT
<i>IL6</i>	IL6-F	CgggAACgAAAgAgAAgCTCTA
	IL6-R	gAgCAgCCCCAgggAgAA
<i>KRT8</i>	KRT8-F	gATCTCTgAgATgAACCggAACA
	KRT8-R	gCTCggCATCTgCAATgg
<i>SNAI1</i>	SNAI1-F	CCAgTgCCTCgACCACTATg
	SNAI1-R	CTgCTggAAggTAAACTCTggA
<i>VCL</i>	VCL-F	gTCCACCAgCCCTgTCATTT
	VCL-R	gTCTCggCTgCTCgTATCTT
<i>VEGFA</i>	VEGFA-F	CTACCTCCACCATgCCAAgTg
	VEGFA-R	gCgCTgATAgACATCCATgAAC