#### SUPPLEMENTARY MATERIAL

## Early tension regulation coupled to surface myomerger is necessary for the primary fusion of C2C12

### myoblasts

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**Figure S1:** Schematic and calibration Interference Reflection Microscopy (IRM) techniques (A) Schematic of IRM (B) IRM images of a 60  $\mu$ m polystyrene bead attached on the glass surface showing interference pattern (C) Cross-sectional representation of bead attached on the glass surface displaying the profile of its distance from coverslip (height with h<sub>0</sub> being the reference and h- h<sub>0</sub> used as relative height. (D) Intensity vs relative height profile derived from the bead in (B) along the yellow line. Intensity minima ( $I_{min}$ ), maxima ( $I_{max}$ ) and S/2 (background intensity) were marked out. (E) Dependence of  $I_{min}$ ,  $I_{max}$  and S/2 on exposure times (F) Line profile of slope (intensity to height conversion) vs exposure times. These calibrations are used to estimate the conversion to be used in images of cells. Cell's  $I_{max}$ ,  $I_{min}$ , S/2 are compared against E and F to find the conversion factor to be used. Exposure time is altered to change the signal mimicking altered reflectivity (Biswas, Alex and Sinha, 2017).



**Figure S2:** Fusion index and cortex thickness analysis (A) Schematic of micropatterning on Line-2 micropatterns (B) MF20 labelling on samples differentiating on micropatterned coverslips (Line-2) and non-patterned coverslip (Control) (C) MF20 labelling of myotubes on 5<sup>th</sup> day of differentiation (96 hr D) and corresponding DIC images of the same (bottom panel) (D) Fusion index calculation; n = 40 independent frames used to measure 50 myotubes (E) Comparison of MF20 change in micropatterned and non-micropatterned substrates (F) Measurement of cortex thickness (Kumar, Saha and Sinha, 2019) involved confocal imaging of mononucleated cells (cells in GM) and myotubes labelled with Phalloidin to visualize F-actin. Typical region of interest (ROI) shown in yellow straightened line (80 x 77 pixels) and zoomed image of cortex straightened along such lines (G) a typical multi term gaussian fitting graph; 38 ROIs from 16 proliferating cells and 34 ROIs from 13 myotubes used to compare cortex thickness. Scale bar = 20 µm.



**Figure S3: Power spectral density (PSD) and mechanical parameters extracted** (A) Comparison of PSDs from 2 hr, 96 hr (U) and 96 hr (D) cells (B) Exponent calculated from a linear fit to log (PSD) versus log(f)plot for frequencies ranging from 0.04 to 0.4 Hz. (C) Confinement (D) Effective cytoplasmic viscosity (E) Active temperature and (F) R<sup>2</sup> value from the fitted data. Cells and FBR numbers correspond to those in Figure 2. Mann-Whitney U statistical significance test is performed, \*\* denotes p value < 0.001.



**Figure S4: Tension and R<sup>2</sup> maps of three different population of cells** (A) Respective R<sup>2</sup> maps of tension mapped cells shown in Figure 3 (B) IRM images, and its corresponding tension and R<sup>2</sup> maps of 2 hr, 96 hr (U) and 96 hr (D) cells. Scale bar =  $20 \mu m$ .



**Figure 55: Tracking beads using transformation matrix** (A) Epifluorescence image of 2  $\mu$ m beads from a particular image field with two different attempts together as before and after to assess displacement from centroids (B) Distribution of average shift measured for beads between consecutive attempts of any particular experiment; n = 4 independent experiments used to obtain 41 beads with 16 different attempts (C) Same cell tracking successfully using transformation matrix, cyan boxes in each day's image denoted the same artifacts to understand the same place, green arrows in last two frames showing upper and lower portion of same myotube which finally labelled by MF20. Scale Bar = 20  $\mu$ m.



**Figure S6: Cell-wise comparison and other mechanical parameters comparison from single-cell tracking** (A) Membrane tension comparison between FD and FU cells across time points (B) Active temperature comparison (C) Confinement comparison (D) Effective cytoplasmic viscosity comparison; Numbers of cells and FBRs are similar as in Figure 5. (E) Cell-wise tension comparison between control and ML141 treated C2c12 cells in growth media. Mann-Whitney U statistical significance test is performed, \*\* denotes p value < 0.001.



**Figure S7: Heterogenous expression of myomerger at different time points** (A) Cell surface expression of myomerger shown as heatmaps from immunostaining data from a representative single-set (B) Comparison of myomerger intensity of a particular set measured using TIRF (top) and epifluorescence (bottom) displaying similar trends n = 1 try used to get 48 cells (2 hr), 43 cells (24 hr) and 13 cells (48 hr) (C) Surface myomerger intensity comparison of different time points for two sets which shown myotubes at 48<sup>th</sup> hr (D) Secondary signal comparison in TIRF (E) FACS data showing myomerger expression at different time points including secondary-only control (F) Western blot showing whole cell expression of myomerger at different time points and its intensity comparison. Cells from different time points were scraped in cold PBS and then centrifuged at 3500 rpm for 5 min, cell pellet were then lysed using lysis buffer (mixture of RIPA and protease inhibitor cocktail) for 45 min in ice cold condition. Lysed cells were sonicated for 5 seconds with 30 seconds interval for 6 cycles. The whole cell lysate (WCL) then centrifuge in 4° C at 3500 rpm for 10 min. The whole cell lysate was then collected as supernatant. The WCL was then used first for estimating the total protein concentration with Bradford assay. Same protein amounts were loaded in SDS PAGE well. NuPage loading dye along with  $\beta$ -marcaptoethanol was used as a loading buffer. Before loading, samples were incubated with loading buffer at 37° C for 30 min. 0.2 µm PVDF membrane was used for transferring of protein from gel

to membrane. After transfer membrane kept in blocking solution using 5% skimmed milk in TBST (Tris buffer saline with 0.1 % tween 20) for 3 hr. Primary antibody for myomerger (Anti-sheep ESGP antibody 1:500 dilution) and Alpha-Tubulin (Anti-rabbit Alpha tubulin 1:20000 dilution) were added after blocking and kept at 4°C shaker for overnight. Secondary antibody for respective proteins (Rabbit Anti-sheep IgG- AP and Goat Anti-Rabbit HRP) were then added after several washing steps with TBST buffer. Secondary treatment was done for 2 hr. Finally blots were visualized using chemidoc system. Scale bar = 10  $\mu$ m, Mann-Whitney U statistical significance test is performed, \*\* denotes P value < 0.001, \* denotes P value < 0.05 and ns denotes not significant.



**Figure S8: Other mechanical parameters, local correlation and myomerger cluster-to-background ratio.** (A, B) Confinement and effective viscosity - fitting parameters of fbr-wise fluctuations data used to derive tension in Figure 7. Mann-Whitney U statistical significance test is performed, \*\* denotes p value < 0.001, \* denotes p value < 0.05 and ns denotes not significant.(C) Correlation of fluctuations with myomerger intensity at the same region – for typical regions of different samples. (D) Images of myomerger IF at different time points (E) Correlation of tension with intensity at other typical regions (F) left: Mean intensity of clusters detected in IF images of myomerger at different time points; centre: mean intensity of the diffused background around clusters; right: mean intensity of clusters and diffused background for myotubes. Satistics of data is same as for Figure 8G.



**Figure S9: Effect of cholesterol depletion on correlation coefficient.** (A) Typical scatter plot for intensity and tension from FBRs for single cells at 2 hr (left) or 24 hr (right) in control (blue/black) or  $M\beta$ CD-treated condition (pink/red). Note that these are not same cells before and after cholesterol depletion (B) Correlation coefficients and p-values for scatter plots shown in (A). (C) Box-plot comparison of correlation coefficients of those scatters that show negative correlation (even if ns). The reduced coefficient is more prominent for 24 hr (D) Western blot showing the expression pattern of myomerger upon  $M\beta$ CD treatment (E) Intensity of myomerger from WB.



*Figure S10: Effect of pulsed cholesterol depletion on fusion.* (*A*) *DIC* (grey and DAPI staining (blue) for control cells after 96 *hr of DM treatment (B) DIC (grey and DAPI staining (blue) for cells treated with M* $\beta$ *CD at 24 hr but only for 30 min after which media is replaced by DM again. Images are after 96 hr of DM treatment. Scale bar = 50 \mum.* 

#### Table S1: List of parameters measured and reported in plots in figures.

P values are calculated using Mann-Whitney unless mentioned tohave been also calculated using Linear Mixed-effect Model (LMM)

Figure 1D (left)										
Parameters	Condition	N <sub>cells</sub>	n <sub>rois</sub>	Mean	SD	SEM	Median	P value		

	Myoblasts	32	1526	138	35	6 13	131	
MF20 intensity	96 hr (11)	25	626	1834	1406	281.26	1659	4.00E-10
Wil 20 Interisity	96 hr (D)	23	1647	10128	/831	1007 35	85/15	1.00E-08
	30 m (D)	24	1047	10128	4031	1007.55	0040	1.001-00
				Г (I.a.fu)				
		1	Figure 2	E (left)	1			-
Parameters	Condition	N <sub>cell</sub>	N <sub>FBR</sub>	Mean	SD	SEM	Median	P value (wrt 2hr)
	2hr	52	947	4.3	0.9	0.03	4.3	
SD time (nm)	96 hr (U)	40	712	3.7	0.7	0.03	3.7	0*
(12x12								
pixels)	96 hr (D)	32	948	3.4	0.9	0.03	3.4	0**
				· (#iaht)				
<u> </u>	<b>A I</b> '''	F	igure ZE	(right)				
Parameters	Condition	N <sub>cell</sub>	N <sub>FBR</sub>	Mean	SD	SEIM	Median	P value (wrt 2hr)
SD space (nm)	2hr	52	947	7.8	2	0.07	7.6	
(12x12 pixels)	96 hr (U)	40	712	6.6	1.5	0.05	6.4	0
	96 hr (D)	32	948	5	1.3	0.04	5	0
			Figure 20	G (left)				
Parameters	Condition	N <sub>cell</sub>	N <sub>FBR</sub>	Mean	SD	SEM	Median	P value (wrt 2hr) (LMM)
Tension (pN/um)	2hr	52	14269	259	746	6.3	61.9	
(4x4 pixels)	96 hr (U)	40	20090	327	834	5.9	82	0.6
	96 hr (D)	32	35041	398	1043	5.6	90.2	0.01
		_						
		F	igure 26	(right)				
Paramotors	Condition	N		Moon	SD.	<b>SEM</b>	Modian	<b>B</b> value
Farameters	condition	I ∎cell	INFBR	Ivicali	50	SLIVI	IVICUIAII	(wrt 2hr)
Tension (nN/um)	2hr	52	14269	259	746	6.3	61.9	(
(4x4 pixels)	96 hr (U)	40	20090	327	834	59	82	<0.001
	96 hr (D)	32	35041	398	1043	5.5	90.2	<0.001
			000.1		10.10	0.0	5012	
			Figure	3B				
Devementers	2 hr	52	I ISUIC	1 2	0.16	0.024	1 10	
	200 06 br (U)	52 40	52 40	1.2	0.10	0.024	1.19	1 OE E
(nm)	96 hr (D)	32	32	0.77	0.17	0.028	0.33	1.0L-J
	96 hr (D)	32	32	0.77	0.15	0.025	0.70	2.7L-13
	50 m (b)	52	Figure	20.77	0.15	0.025	0.70	2.71 15
Demonstration	Constitutions		Figure		60	6514	<b>N A a a b a a</b>	Duralius
Parameters	Condition	N	n	Mean	SD	SEIM	Median	P value (wrt 2hr)
SD (SD <sub>space</sub> )	2hr	52	52	0.28	0.06	0.008	0.28	
(nm)	96 hr (U)	40	40	0.3	0.07	0.012	0.28	0.376
	96 hr (D)	32	32	0.24	0.05	0.008	0.26	0.007
SD (Tension)	Condition	N	n	Mean	SD	SEM	Median	P value (wrt 2hr)
(pN/µm)	2hr	52	52	681	414	59.81	605	. ,
	96 hr (U)	40	40	787	248	40.75	740	0.005
	96 hr (D)	32	32	877	375	65.2	817	0.002
			Figure	e 4C				
Parameters	Condition	Ncoll	n	Mean	SD	SEM	Median	P value
		cell	FBR			52.07		(wrt 2hr)
	(Finally differentiated)							
Tension	2hr	1	2563	171	408	8.07	47.6	
(pN/µm)								
					•			•

	24hr	1	2560	157	491	9.72	36.23	0
	48hr	1	2037	197	419	9.28	50.18	0.183
	72hr	1	3053	338	684	12.39	74.35	1.00E-41
	96hr	1	2209	264	656	13.95	73.2	3.00E-31
SD <sub>time</sub> (nm)	2hr	1	3385	6.01	1.36	0.023	5.91	
	24hr	1	6239	7.07	2.03	0.025	6.89	2.00E-
								142
	48hr	1	6798	6.34	1.2	0.014	6.26	3.00E-32
	72hr	1	6711	4.78	0.71	0.008	4.78	0
		1	5089	4.44	0.71	0.009	4.38	0
			Figure	e 4D				
Parameters	Condition	N <sub>cell</sub>	n <sub>FBR</sub>	Mean	SD	SEM	Median	P value
								(wrt 2hr)
	(Finally							
	undifferentiated)							
Tension	2hr	1	1342	193	453	12.38	46.69	
(pN/µm)	2.4		5.00	24.4	77.4	22.74	74.00	6.005.40
	24hr	1	560	314	//4	32.74	/4.29	6.00E-12
	48nr 72hr	1	2340	1/3	489	10.09	45.3	0.493
	72hr OChr	1	2750	193	495	9.44	54.99	0.0012
Dovomotovo	9000		2997	152	440	8.15 CEM	43.13	0.009
Parameters	Condition	Ncell	TIFBR	wean	30	SEIVI	weatan	(wrt 2br)
	(Finally							
	undifferentiated)							
SD time (nm)	2hr	1	3020	6.63	1.53	0.027	6.58	
c = time (****)	24hr	1	2638	5.25	1.4	0.028	5.08	0
	48hr	1	4615	5.34	1.47	0.021	5.11	0
	72hr	1	6172	5.52	1.43	0.018	5.53	0
	96hr	1	7118	6.36	1.71	0.02	6.17	0
			Figure	ο 5Δ				
Parameters	Condition	Ν	n	Mean	SD	SEM	Median	P value
								(wrt 2hr)
	(FD+FU)							. ,
Tension	2hr	24	24	62.12	16.12	3.29	57.31	
(pN/µm)	24hr	24	24	49.32	14.22	2.9	48.8	0.006
	48hr	24	24	50.03	10.37	2.12	48.92	0.004
	72hr	24	24	68.31	39.64	8.09	53.75	ns
	96hr	13	13	67.38	45.36	12.58	49.86	ns
			Figure	e 5B				
Parameters	Condition	Ν	n	Mean	SD	SEM	Median	P value
								(wrt
	(Finally							
	differentiated)							
Relative	2hr	16	16	1.22	0.26	0.07	1.29	
SD <sub>time</sub> (nm)	24hr	16	16	1	0.18	0.04	1.05	0.001
	48hr	16	16	0.92	0.24	0.06	0.82	ns
	72hr	16	16	0.84	0.19	0.06	0.78	ns
	96hr	12	12	1.22	0.27	0.07	1.28	0.01
	(Finally							
Polativa		24	24	1 10	0.2	0.06	1 1 /	
	2111 21hr	24	24	1.10	0.3	0.06	1.14	nc
Ju time (IIIII)	24111 18hr	24 24	24	0.02	0.2	0.04	0.97	nc
	72hr	24	24	1 02	0.22	0.04	0.98	nc
	96hr	17	17	1 18	0.22	0.05	1 14	ns
	5011	±/	Figure	<u> </u>	0.0	0.00	1 1.17	
Donomotorio	Condition	14	rigure	Marr	60	6544	Madian	Duchia
Parameters	Condition	IN	n	iviean	20	SEIVI	iviedian	
			1	1		1	1	(WILZIII)

	(Finally							
Relative	2hr	12	12	1	0	0	1	
Tension	2111 24hr	12	12	0.8	0.24	0.07	0.75	0.003
(pN/µm)				0.0	0.2 .	0.07	0.10	0.000
	48hr	12	12	0.9	0.19	0.05	0.89	ns
	72hr	12	12	1.3	0.66	0.19	1.11	ns
	96hr	8	8	1.6	1.05	0.37	1.26	ns
	(Finally							
	undifferentiated)				-			
Relative	2hr	12	12	1	0	0	1	
I ension	24hr	12	12	0.9	0.33	0.09	0.96	ns
(piv/µiii)	48hr	12	12	0.8	0.19	0.06	0.76	ns
	72hr	12	12	0.9	0.38	0.11	0.95	ns
	96hr	5	5	0.7	0.24	0.11	0.68	0.02
-			Figure	2 5 G				
Parameters	Condition	Ncell	n	Mean	SD	SEM	Median	P value
								(wrt
								control)
Fusion Index	Control	16	16	39.54	11.98	2.99	39.35	
(%)		16	4.6	45.00	44.65	2.01	40.74	4 005 05
	MILI41	16	16	15.09	11.65	2.91	10.71	4.00E-05
Tonsion	Control	10	10	24.27	15 74	5.25	0	3.00E-07
(nN/um)	MBCD	12		53 99	12.74	3.25	55.88	0.007
(pri) pri)	mpeb		Figure 5	H (loft)	12.50	5.25	55.66	0.007
Parameters	Condition	Neu	nguie Ji	Mean	SD	SEM	Median	P value
Falameters	Condition	I VCell	IIFBK	wear	30	JLIVI	Weatan	(wrt 2
	(Finally							,
	differentiated)							
SD <sub>time</sub>	2 hr	12	82893	5.57	1.81	0.00629	5.26	
(nm)	24 hr	12	57773	6.78	1.91	0.008	6.61	0
	48 hr	12	85871	5.38	1.42	0.005	5.24	0
-	72 hr	12	66018	5.63	1.7	0.007	5.51	0
	96 hr	8	91448	5.07	1.42	0.005	4.93	0
	(Finally undifferentiated)							
SD <sub>time</sub>	2 hr		87626	5.73	1.74	0.006	5.59	
(nm)	24 hr		71161	6.46	1.89	0.007	6.27	0
	48 hr		109153	6.36	1.72	0.005	6.21	0
	72 hr		91307	5.79	1.68	0.005	5.66	0
	96 nr		28950	6.35	1./1	0.01	6.21	0
Dawawaatawa	Condition	F	igure on	i (rignt)	60	CENA	Madian	Dualua
Parameters	Condition	NCell	n	wean	20	SEIVI	iviedian	(wrt 2
								hr)
	(Finally							
-	differentiated)							
Tension	2 hr		33007	229.29	664.91	3.18	53.33	-
(pN/μm)	24 hr		24452	168.19	463.52	2.96	41.4	0
<u> </u>	48 nr		221/9	227.41	051.59	4.49	51.42	0.005
	72 m		32023	321.78	321.79	5.04	05.32	4.00E- 111
	96 hr		40465	279.45	754.11	3.75	64.06	5.00E- 107
	(Finally undifferentiated)							
l	ananterentiatea)		I	1	L	1	L	L

Tension	2 hr		34726	256.62	726.9	3.9	63.03	
(pN/µm)	24 hr		25030	208.86	568.45	3.593	49.33	0
	48 hr		39562	186.82	497.79	2.502	47.003	0
	72 hr		39910	231.81	696.72	3.487	55.39	0
	96 hr		11450	160.36	448.96	4.196	42.64	0
			Figure	- 6C	1			
Daramators	Condition	<b>_</b>	Moon		CENA	Modian	Dyalua	
Parameters	Condition		Iviean	30	SEIVI	Weulan	/wrt 2	
							(WILZ	
							,	
Myomorgor	GM	52	546	172	24.05	552	1 00E 06	
TIDE	0 lvi 2 hr	52	400	04.15	12 21	205	1.002-00	
	2 III 24 br	50	212	94.15	12.22	212	4 00E 05	
	24 III 19 hr	52	312	122	10 55	421	4.002-05	
	40 III 72 hr	51	444	152	10.55	451	0.10909	
	72 III 06 hr	55	906	527	72.47	788	5.00E-09	
	90 III	20	/00	512	125.04	1100	0.003	
	iviyotubes	20	1149	607	135.94	1169	2.00E-06	
		F	igure 7B	and 7C		1		
Parameters	Condition	n	Mean	SD	SEM	Median	P value	
Myomerger	2 hr	32	203	35.44	6.26	202		
Intensity (au)								
	24 hr	31	375	183	33.01	357	5.00E-04	
lension	2 hr	32	44.19	24.26	4.29	38.89		
(piv/μm)	24 hr	21	20.70	12.00	2.51	27 52	0.0025	
N Automotive outoout	24 hr	31	30.79	13.98	2.51	27.53	0.0025	
intensity (au)	48 11	58	497	241	39.24	443		
	72 hr	25	1076	947	189	755	6E-4	
							(wrt 48	
							hr)	
	Myotubes	10	818	859	271	504	0.15885	
							(wrt 48	
							hr)	
Tension (pN/μm)	48 hr	38	44.7	61.89	10.04	31.76		
	72 hr	25	67.86	63.12	12.62	49.09	0.0014	
							(wrt 48	
							hr)	
	Myotubes	10	45.27	14.44	4.57	44.67	0.038	
							(wrt 48	
							hr)	
			Figure 8	B (left)				
Parameters	Condition	N <sub>cells</sub>	Mean	SD	SEM	Median	P value	
							(wrt	
			467			100 -0	control)	
Intensity (au)	Control_2 hr	11	135	8.05	2.43	133.79	0.001	
	MBCD_2 hr	9	1/3	32.57	10.85	1/3.34	0.001	
	Control_24 hr	10	212	24.26	/.6/	215.38		
	IVIPCD_24 hr	8	235	33.43	11.82	241.92	ns	
ļ,		F	-igure 8B	(right)	1	1	1	
Parameters	Condition	N <sub>cells</sub>	Mean	SD	SEM	Median	P value	
							(wrt	
Tonsian	Control 2 hr	11	40.70	10.24	E 00	45.00	control)	
(nN/um)	Control_2 nr	11	49.76	19.34	5.83	45.89		
(μιν/μιπ)	MRCD 2 hr	Q	75 02	30 10	10.16	70.02	0.02	
	Control 24 hr	10	45 16	32 35	10.10	33 35	0.02	
	MβCD 24 hr	8	46.69	18.39	6.5	42.03	ns	
		. <u> </u>		-0.00	0.0			

			Figure	e 8G				
Parameters	Condition	<b>N</b> <sub>clusters</sub>	n <sub>rois</sub>	Mean	SD	SEM	Median	P value
								(wrt 2 hr)
Cluster ratio	2 hr	90	10	1.56	0.17	0.02	1.53	
	24 hr	100	10	1.51	0.15	0.01	1.5	ns
	48 hr	100	10	1.54	0.19	0.02	1.51	ns
	72 hr	108	10	1.5	0.16	0.01	1.5	0.001
	96 hr	150	10	1.48	0.16	0.01	1.48	2.00E-16
			Figure	e 8H				
Parameters	Condition	<b>N</b> <sub>clusters</sub>	n <sub>rois</sub>	Mean	SD	SEM	Median	P value
								(wrt 2 hr)
Cluster numbers	2 hr	90	10	1.04	0.21	0.022	1.04	
	24 hr	100	10	0.99	0.32	0.031	1.02	ns
	48 hr	100	10	0.91	0.24	0.024	0.93	6.00E-05
	72 hr	110	10	0.72	0.26	0.025	0.76	0.001
	96 hr	150	10	0.73	0.24	0.02	0.75	
	Myotubes	80	10	0.33	0.29	0.032	0.27	2.00E-16
		F	igure 8J	(right)				
Parameters	Condition	Nclusters	n <sub>rois</sub>	Mean	SD	SEM	Median	P value
		clusters	1013					(wrt control)
Cluster numbers	Control_2 hr	30	10	0.43	0.15	0.03	0.43	
	MβCD_2 hr	30	10	0.34	0.22	0.04	0.31	ns
	Control_24 hr	39	10	1.31	0.07	0.01	1.29	
	MβCD_24 hr	49	10	1.24	0.08	0.01	1.23	5.00E-07
			Figure 8	J (left)				
Parameters	Condition	<b>N</b> <sub>clusters</sub>	n <sub>rois</sub>	Mean	SD	SEM	Median	P value
								(wrt
								control)
Cluster ratio	Control_2 hr	29	10	1.36	0.09	0.01	1.35	
	MβCD_2 hr	28	10	1.24	0.07	0.01	1.23	2.00E-06
	Control_24 hr	39	10	1.31	0.07	0.01	1.29	
	MBCD_24 hr	49	10	1.24	0.08	0.01	1.23	1.00E-08
			Figure	S2B				
Parameters	Condition	n	Mean	SD	SEM	Median	P value (wrt 2 hr)	
Fusion Index	Myotubes	50	30.75	13.27	1.88	28.23		
			Figur	e S3				
Parameters	Condition	n	Mean	SD	SEM	Median	P value (wrt 2 hr)	
			Figure	S3B				
Exponent	2 hr	42815	-1.58	0.33	0.0016	-3.55		
	96 hr (U)	40148	-1.52	0.34	0.0017	-2.86	3.00E- 162	
	96 hr (D)	85129	-1.55	0.25	0.0008	-2.86	2.00E-77	
			Figure	S3C				
γ (N/m³)	2 hr	14269	0.112	0.149	0.0012	0.073		
	96 hr (U)	20090	0.133	0.175	0.0012	0.089	6.00E-18	
	96 hr (D)	35041	0.151	0.199	0.001	0.1	5.00E-60	
		-	Figure	S3D	-	-		

η <sub>eff</sub> (Pa.s)	2 hr	14269	3560	7261	60.79	1676		
	96 hr (U)	20090	4138	8249	58.2	1886	7.00E-14	
	96 hr (D)	35041	4981	12998	69.44	1969	3.00E-40	
			Figure	S3E				
А	2 hr	14269	2.81	3.01	0.025	1.28		
	96 hr (U)	20090	2.57	2.94	0.02	1.06	0	
	96 hr (D)	35041	2.45	2.89	0.015	1.01	0	
			Figure	S3F				
<b>R</b> <sup>2</sup>	2 hr	14269	0.96	0.046	4.00E-04	0 98		
N	96 br (11)	20090	0.96	0.040	4.00E-04	0.50	0	
	96 hr (D)	35041	0.96	0.05	3.00E-04	0.98	0	
	50 m (b)	55041	Eiguro	6.05 6/10	3.002 04	0.50	Ŭ	
Demonsterne	Courd'thing		Figure	34D	6584	<b>N A a a b a a</b>	Duralius	
Parameters	Condition	n	wean	50	SEIVI	wedian	P value	
							(Wrt Z	
	(Einally						,	
	differentiated)							
А	2 hr	33007	3.08	3.14	0.017	1.38		
	24 hr	24452	3.5	3.16	0.02	2.17	3.00E-99	
	48 hr	22179	3.01	3.08	0.021	1.36	0.07	
	72 hr	35653	2.93	3.07	0.016	1.19	9.00E-12	
	96 hr	40465	2.8	3.03	0.015	1.09	0	
	(Finally							
	undifferentiated)							
А	2 hr	34726	2.88	3.02	0.016	1.2		
	24 hr	25030	3.29	3.16	0.02	1.72	3.00E-64	
	48 hr	39562	3.29	3.14	0.016	1.81	1.00E-95	
	72 hr	38873	2.95	3.03	0.015	1.34	2.00E-04	
	96 hr	11450	3.33	3.07	0.029	2.01	9.00E-75	
			F:	646				
			Figure	54C				
Parameters	Condition	n	Mean	S4C SD	SEM	Median	P value	
Parameters	Condition	n	Mean	S4C SD	SEM	Median	P value (wrt 2	
Parameters	Condition	n	Mean	S4C SD	SEM	Median	P value (wrt 2 hr)	
Parameters	Condition (Finally	n	Mean	S4C SD	SEM	Median	P value (wrt 2 hr)	
Parameters	Condition (Finally differentiated)	n	Mean	SD SD	SEM	Median	P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> )	Condition (Finally differentiated) 2 hr	n 33007	Algorithm Algori	SD 3.14	SEM 0.017	Median	P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> )	Condition (Finally differentiated) 2 hr 24 hr	n 33007 24452	Figure     Mean     3.08     3.5	SD SD 3.14 3.16	SEM 0.017 0.02	Median 1.38 2.17	P value (wrt 2 hr) 3.00E-99	
Parameters γ (N/m <sup>3</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr	n 33007 24452 22179	Figure     Mean     3.08     3.5     3.01	3.14 3.16 3.08	SEM 0.017 0.02 0.021	Median 1.38 2.17 1.36	P value (wrt 2 hr) 3.00E-99 0.07	
Parameters γ (N/m <sup>3</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr	n 33007 24452 22179 35653	Figure     Mean     3.08     3.5     3.01     2.93	3.14 3.16 3.08 3.07	SEM 0.017 0.02 0.021 0.016	Median 1.38 2.17 1.36 1.19 	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12	
Parameters γ (N/m <sup>3</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr	n 33007 24452 22179 35653 40465	Figure     Mean     3.08     3.5     3.01     2.93     2.8	3.14 3.16 3.08 3.07 3.03	SEM 0.017 0.02 0.021 0.016 0.015	Median 1.38 2.17 1.36 1.19 1.09 1.09	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0	
Parameters γ (N/m <sup>3</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition	n 33007 24452 22179 35653 40465 n	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean	3.14 3.16 3.08 3.07 3.03 SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM	Median 1.38 2.17 1.36 1.19 1.09 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2	
Parameters γ (N/m <sup>3</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition	n 33007 24452 22179 35653 40465 n	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean	3.14 3.16 3.08 3.07 3.03 SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM	Median 1.38 2.17 1.36 1.19 1.09 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition	n 33007 24452 22179 35653 40465 n	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean	3.14 3.16 3.08 3.07 3.03 SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM	Median 1.38 2.17 1.36 1.19 1.09 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated)	n 33007 24452 22179 35653 40465 n	Ange     3.08     3.5     3.01     2.93     2.8     Mean	3.14 3.16 3.08 3.07 3.03 SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM	Median 1.38 2.17 1.36 1.19 1.09 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr	n 33007 24452 22179 35653 40465 n 34726	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.8     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr)	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr	n 33007 24452 22179 35653 40465 n 34726 25030	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.016 0.02	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr	n 33007 24452 22179 35653 40465 n 35653 40465 35653 35552	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr	n 33007 24452 22179 35653 40465 n 34726 25030 39562 38873	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.8     Mean     3.01     2.93     2.8     Mean     3.29     3.29     3.29     3.29     2.95	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.016 0.015	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 24 hr 48 hr 72 hr 96 hr	n 33007 24452 22179 35653 40465 n 34726 25030 39562 38873 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.29     3.29     3.33	3.14 3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.015 0.029	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 24 hr 48 hr 72 hr 96 hr	n 33007 24452 22179 35653 40465 n 340465 n 34726 25030 39562 38873 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.29     3.33     Figure	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 S4D	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.015 0.029	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr	n 33007 24452 22179 35653 40465 n 340465 n 34726 25030 39562 38873 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.29     3.29     3.29     3.33     Figure     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 S4D SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.016 0.02 0.016 0.02 0.016 0.02 0.015 SEM SEM	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr 72 hr 96 hr	n 33007 24452 22179 35653 40465 n 340465 n 34726 25030 39562 38873 38873 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.29     3.33     Figure     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 S4D SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.016 0.02 0.015 SEM SEM	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 24 hr 48 hr 72 hr 96 hr Condition	n 33007 24452 22179 35653 40465 n 340465 n 34726 25030 39562 38873 311450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     2.95     3.33     Figure     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 S4D SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.016 0.02 0.016 0.015 SEM SEM	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally Undifferentiated)	n 33007 24452 22179 35653 40465 n 35653 40465 25030 39562 38873 11450 n	Aligure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     2.95     3.33     Figure     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 S4D SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.016 0.015 0.02 0.016 0.015 0.02 0.016 0.015 SEM SEM	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally differentiated)	n 33007 24452 22179 35653 40465 n 34726 25030 39562 38873 11450 n	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.33     Figure     Mean	3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 SAD SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.016 0.02 0.015 SEM SEM	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr)	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )     Parameters     η <sub>eff</sub> (Pa.s)	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally differentiated) 2 hr	n 33007 24452 22179 35653 40465 n 340465 n 34026 25030 39562 38873 11450 n n n 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     3.29     3.29     3.95     3.33     Figure     Mean     3194	S4C SD 3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 SD S4D SD SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.016 0.02 SEM 46.36053	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr) P value	
Parameters     γ (N/m³)     Parameters     γ (N/m³)     (X10 <sup>10</sup> )     Parameters     η <sub>eff</sub> (Pa.s)	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr 72 hr 96 hr Condition (Finally differentiated) 2 hr	n 33007 24452 22179 35653 40465 n 340465 n 34026 25030 39562 38873 11450 7 11450 n 11450 11450	Figure     Mean     3.08     3.5     3.01     2.93     2.8     Mean     2.88     3.29     2.95     3.33     Figure     Mean     3.194     2081	S4C SD 3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 SD SD SD SD SD SD SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.016 0.02 0.016 0.02 0.016 0.02 0.016 0.02 0.016 0.02 0.02 SEM 46.36053 32.64666	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median Median 1.34 2.01 1.34 2.01 Median	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr) P value (wrt 2 hr)	
Parameters γ (N/m <sup>3</sup> ) Parameters γ (N/m <sup>3</sup> ) (X10 <sup>10</sup> ) Parameters η <sub>eff</sub> (Pa.s)	Condition (Finally differentiated) 2 hr 24 hr 48 hr 72 hr 96 hr Condition (Finally undifferentiated) 2 hr 24 hr 48 hr 72 hr 96 hr 72 hr 96 hr Condition (Finally differentiated) 2 hr 24 hr 48 hr	n 33007 24452 22179 35653 40465 n 340465 n 34026 25030 39562 38873 11450 7 38873 11450 7 38873 11450 7 38873 11450	Figure   Mean   3.08   3.5   3.01   2.93   2.8   Mean   2.88   3.29   3.29   3.29   3.29   3.33   Figure   Mean   3194   2081   2587	S4C SD 3.14 3.16 3.08 3.07 3.03 SD 3.02 3.16 3.14 3.03 3.07 SD SD SD SD SD SD SD SD SD SD SD	SEM 0.017 0.02 0.021 0.016 0.015 SEM 0.016 0.02 0.016 0.02 0.016 0.02 0.016 0.02 0.016 0.02 0.016 0.02 SEM 46.36053 32.64666 34.17101	Median 1.38 2.17 1.36 1.19 1.09 Median 1.2 1.72 1.81 1.34 2.01 Median Median 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.35 1.2 1.35 1.2 1.35 1.2 1.35 1.2 1.35 1.2 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.34 2.01 1.35 1.2 1.35 1.2 1.35 1.2 1.35 1.2 1.34 1.34 2.01 1.35 1.2 1.2 1.35 1.2 1.2 1.35 1.2 1.	P value (wrt 2 hr) 3.00E-99 0.07 9.00E-12 0 P value (wrt 2 hr) 3.00E-64 1.00E-95 2.00E-04 9.00E-75 P value (wrt 2 hr) P value (wrt 2 hr)	

	72 hr	35653	4066	12227	64.75784	1427.9	9.00E-12	
	96 hr	40465	3177	7797	38.76384	1340.6	ns	
	(Finally undifferentiated)							
η <sub>eff</sub> (Pa.s)	2 hr	34726	3958	10257	55.04	1461		
	24 hr	25030	2475	7053	44.58	1119	0	
	48 hr	39562	2420	5528	27.79	1156	0	
	72 hr	38873	3387	7821	39.67	1427	0.01	
	96 hr	11450	2318	4760	44.49	1137	0	

# Supplementary References

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