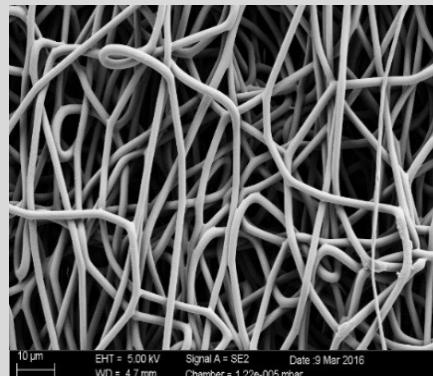


## Scaffold characterization: structure and mechanics

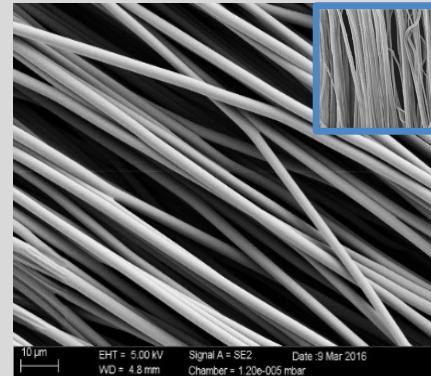


PLGA-R (CTR)

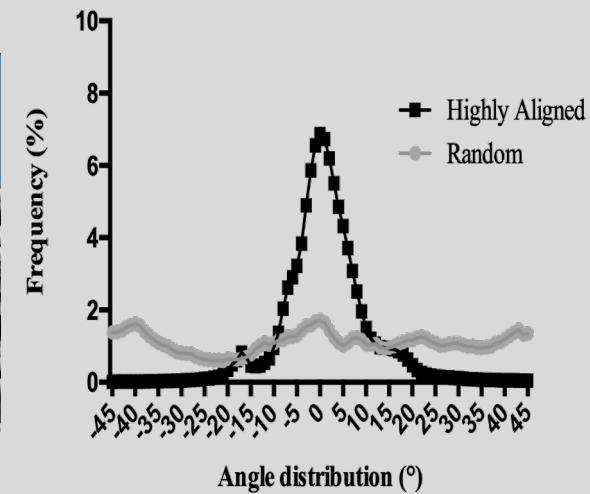


$2.1 \pm 0.19 \mu\text{m}$

PLGA-HA



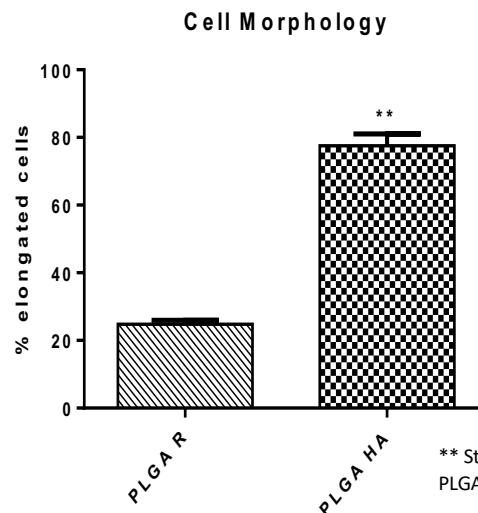
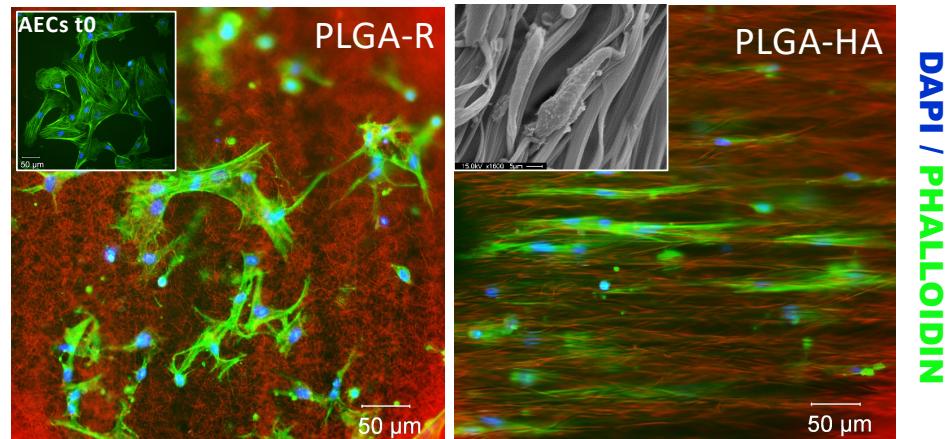
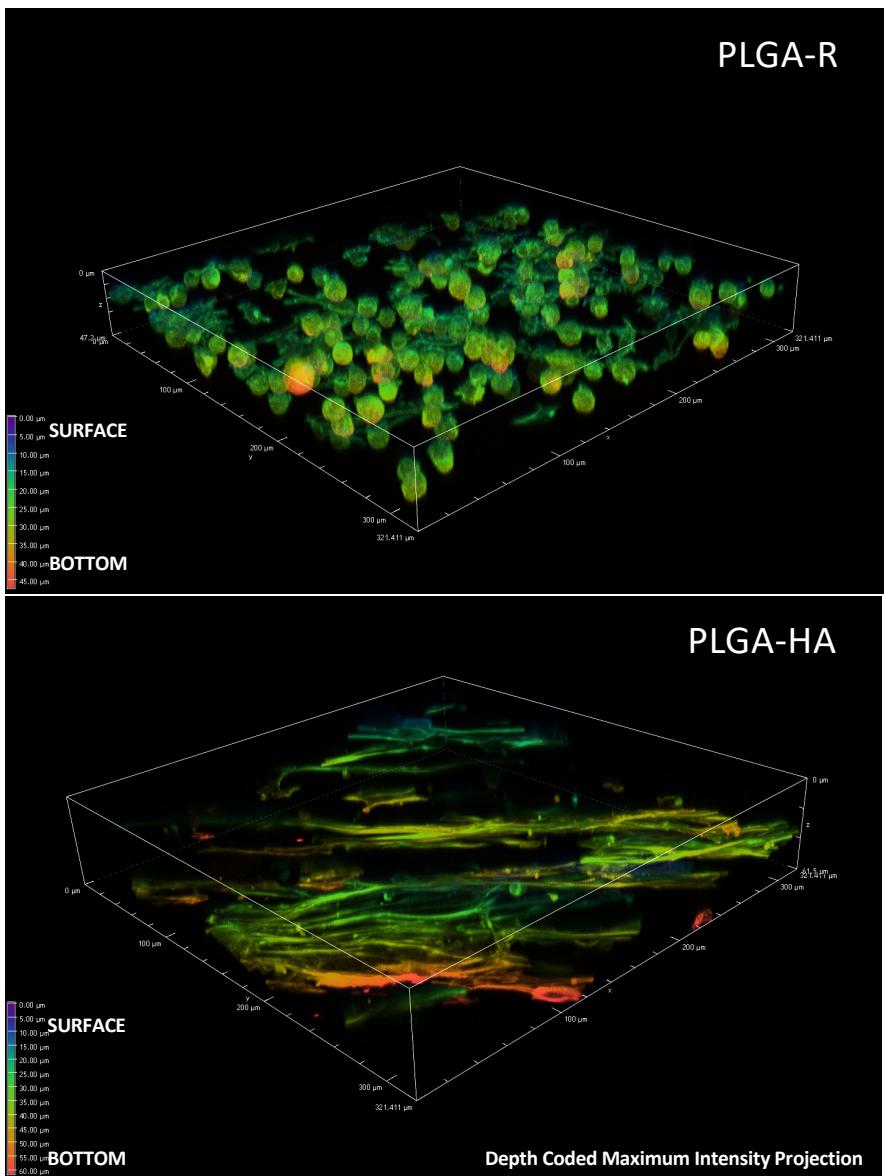
$2.5 \pm 0.27 \mu\text{m}$



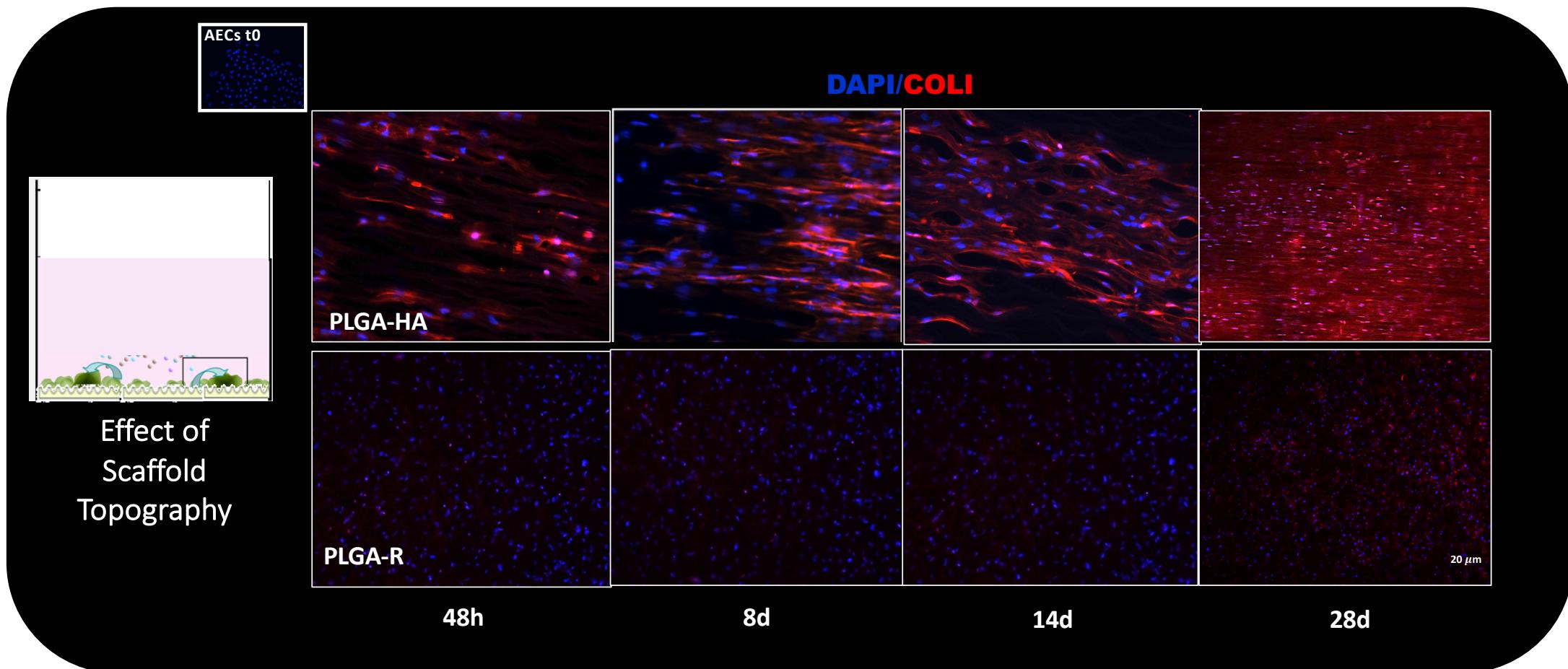
Scaffold Groups	Mechanical Parameters	
	Stress (MPa)	Strain (%)
Scaffolds PLGA-R	$15 \pm 0.87$	$240 \pm 12.34$
Scaffolds PLGA-HA	$26.02 \pm 1.75^*$	$344 \pm 24.89^*$

\* Statistically significant values between PLGA-R and PLGA-HA scaffolds ( $p < 0.05$ )

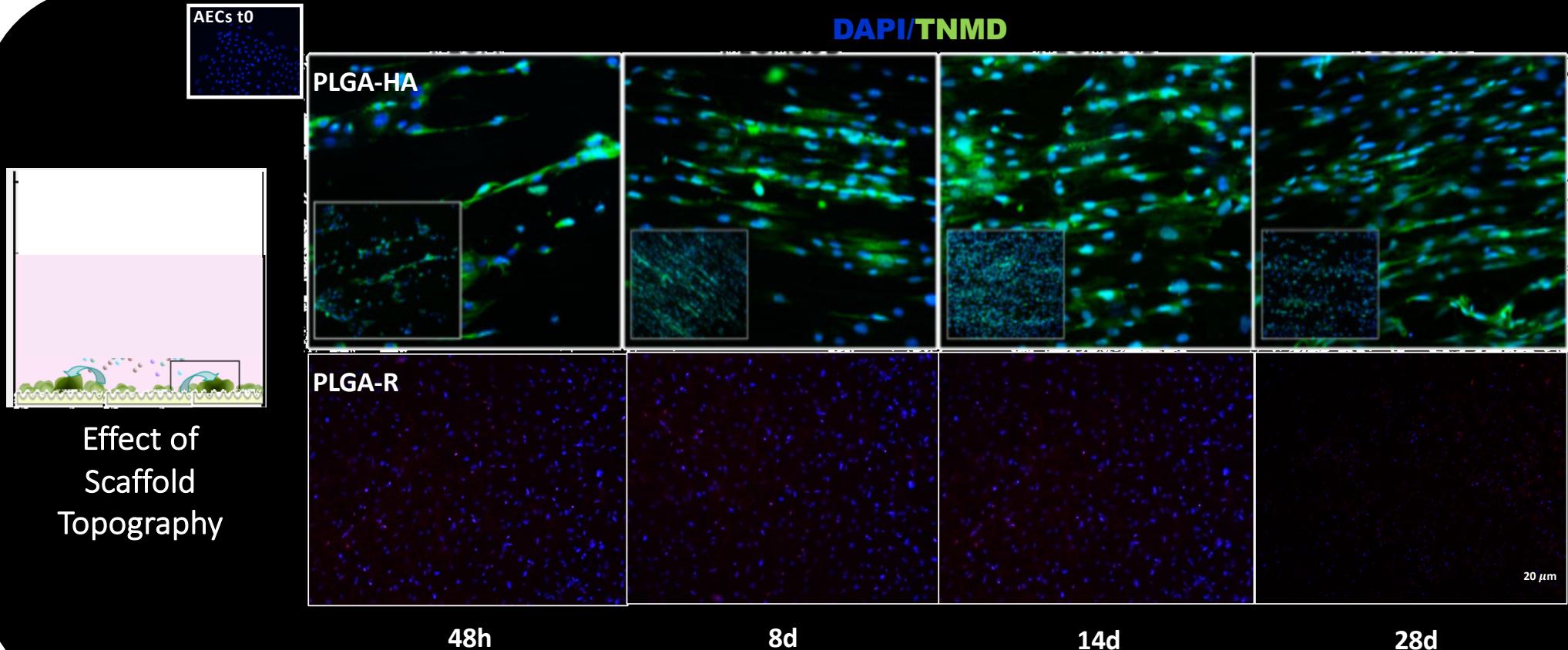
# Influence of fibre topography on AECs



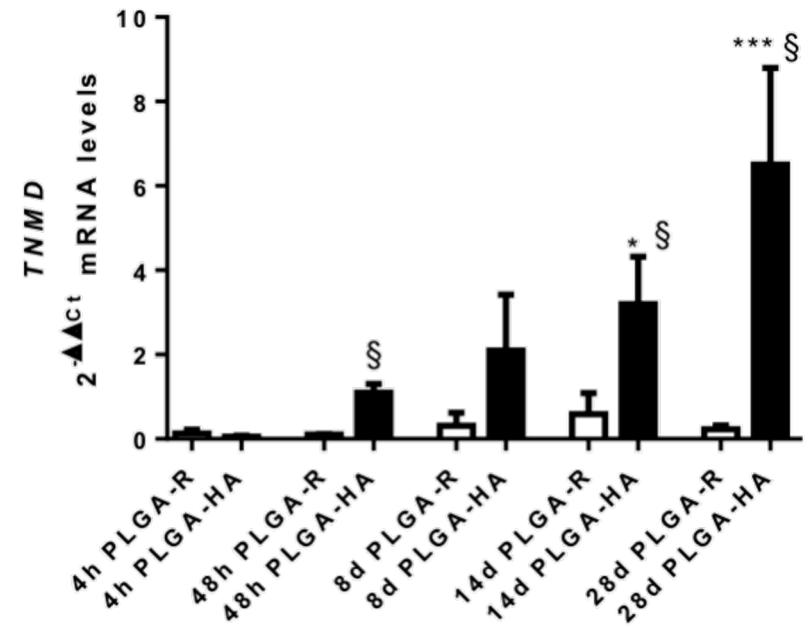
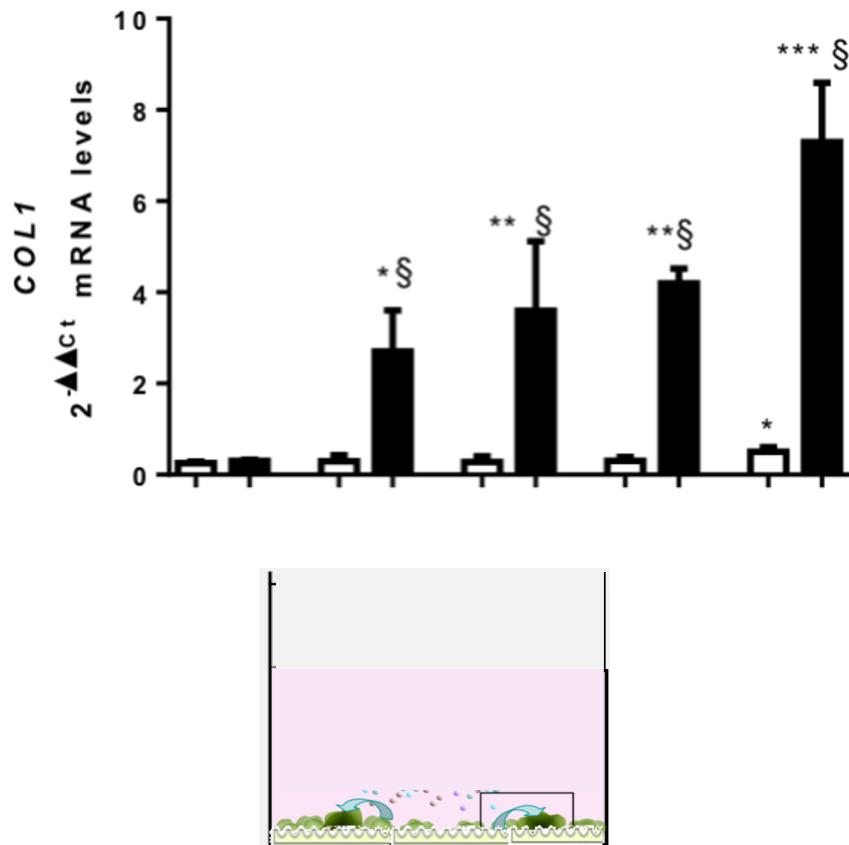
# ha-PLGA scaffold teno-inductive properties on AECs



# ha-PLGA scaffold teno-inductive properties on AECs

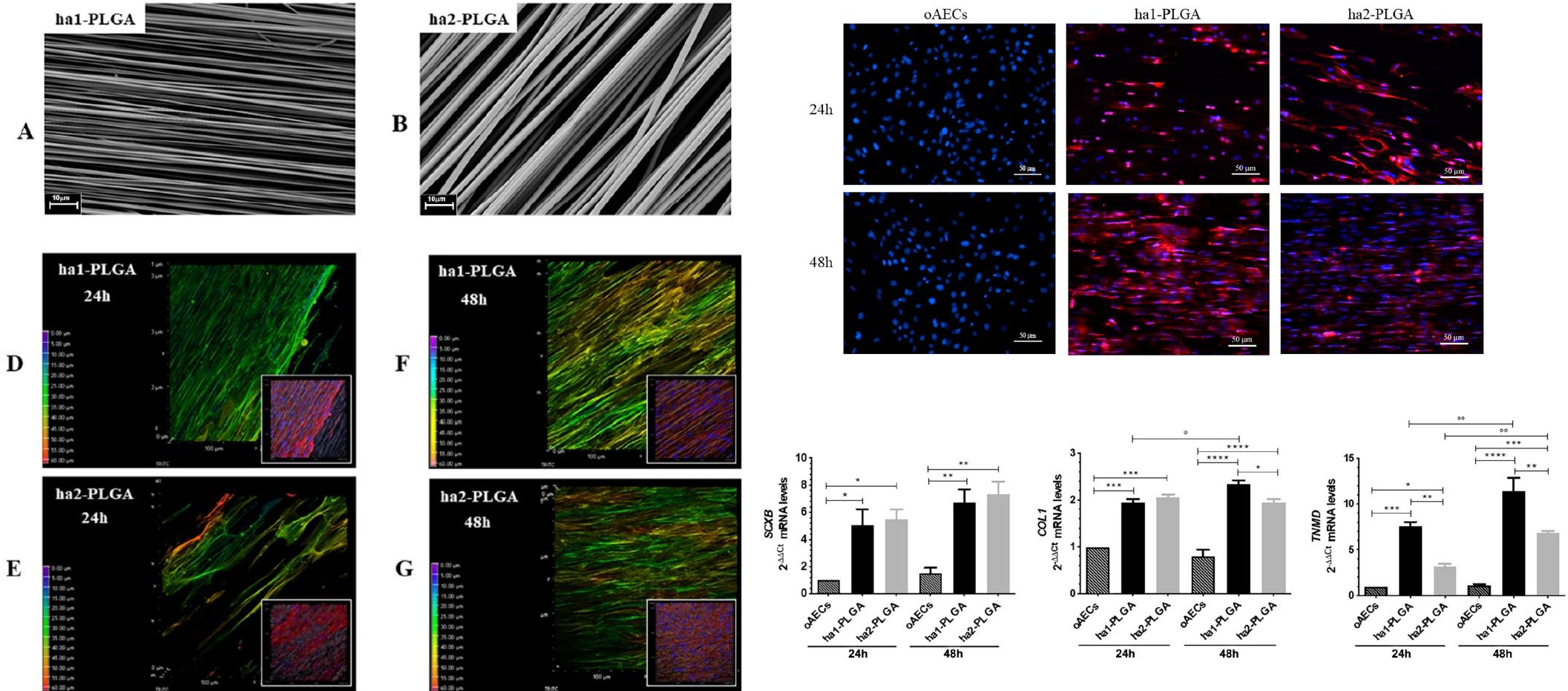


## ha-PLGA scaffold teno-inductive properties on AECs



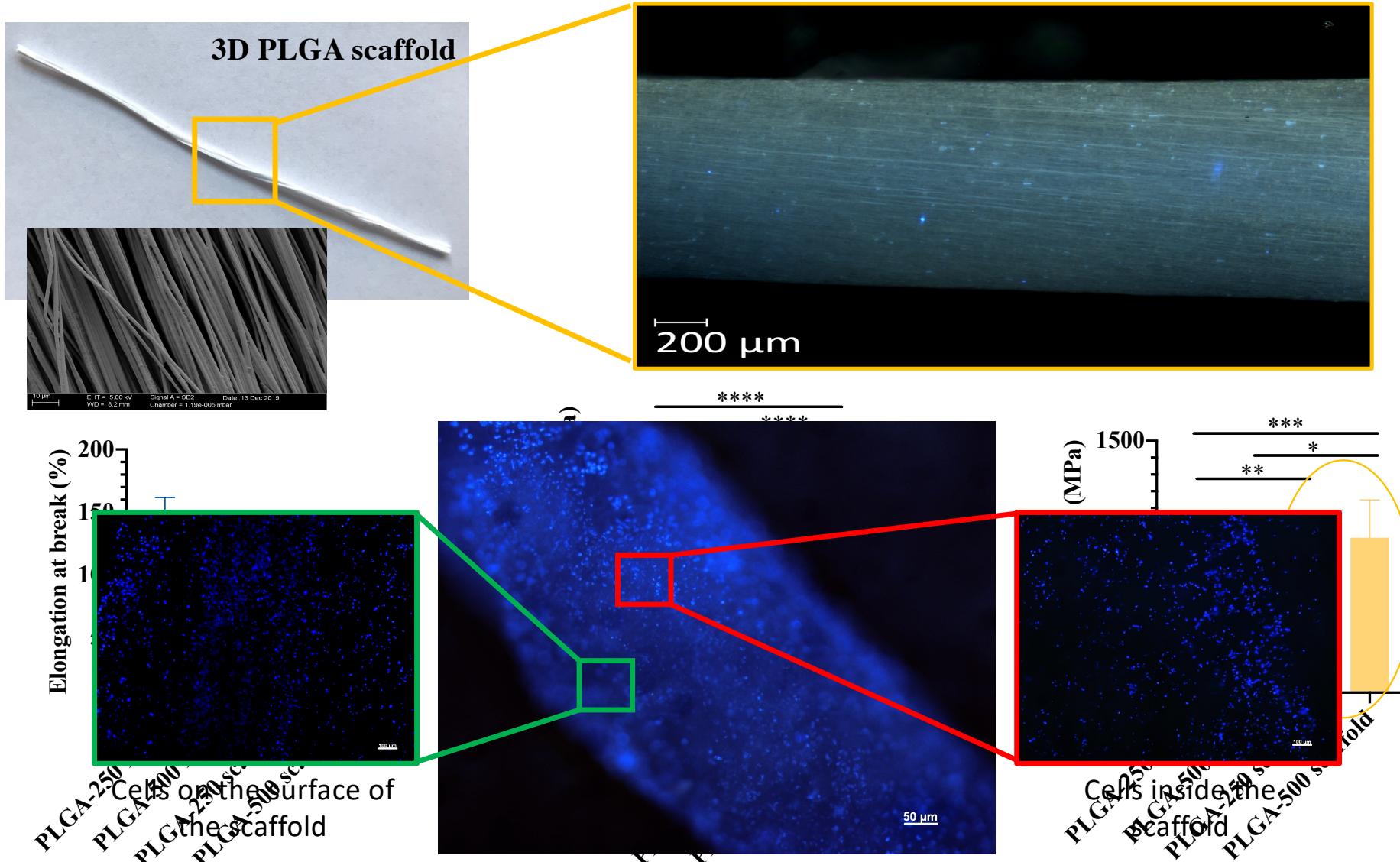
\*p<0.01 different values in PLGA-HA vs. 4h  
§ p<0.01 different values between different scaffold at each time point

# Tendon Tissue Engineering

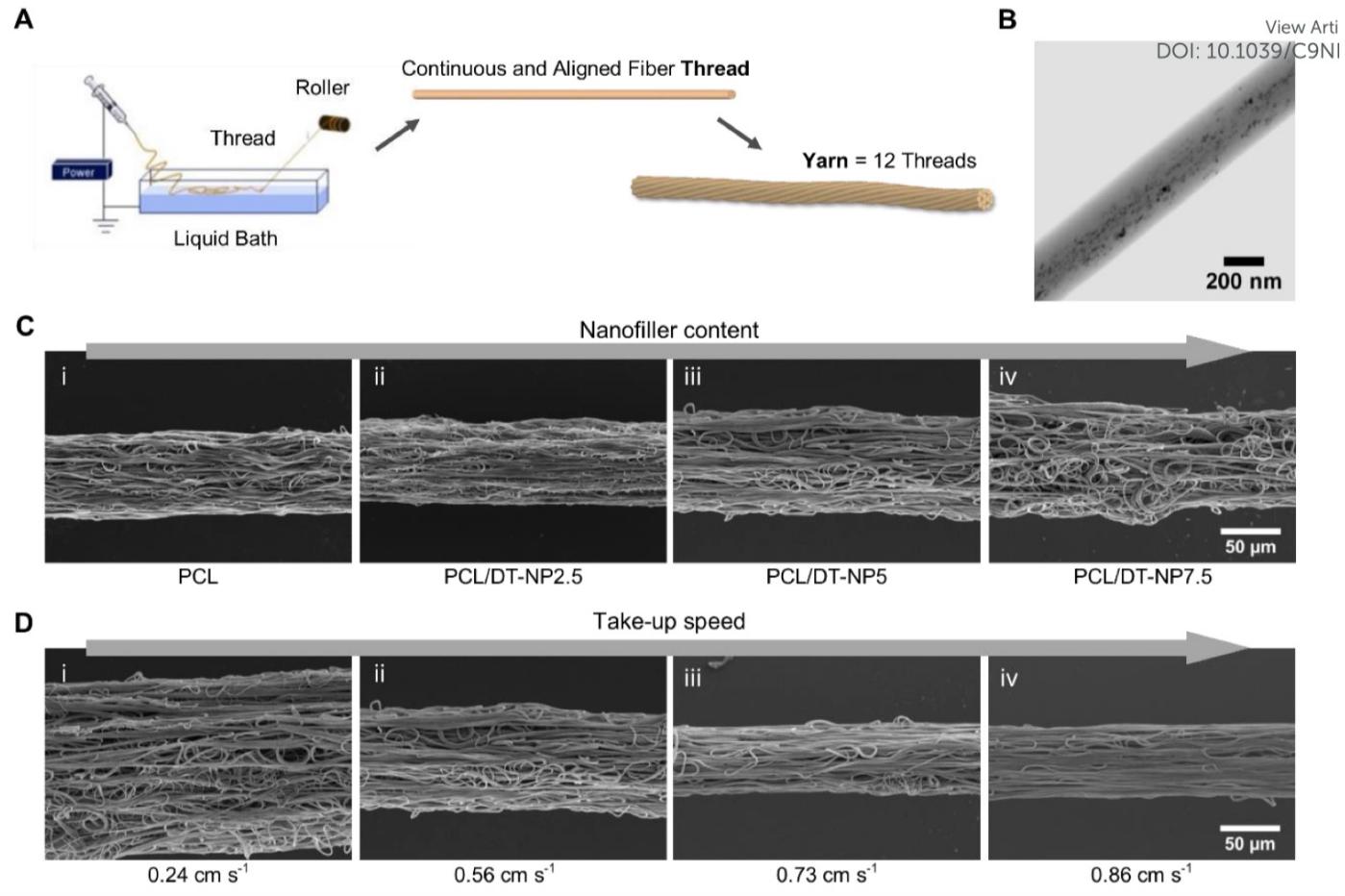


$1.27 \pm 0.11 \mu\text{m}$  (ha1-PLGA) and  $2.5 \pm 0.27 \mu\text{m}$  (ha2-PLGA)

# Biomimicking Tendon 3D structure

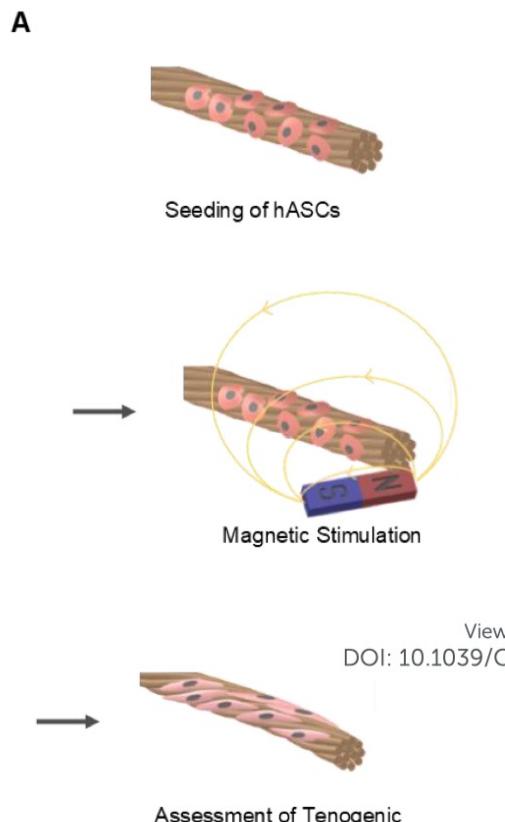


# Tendon Tissue Engineering

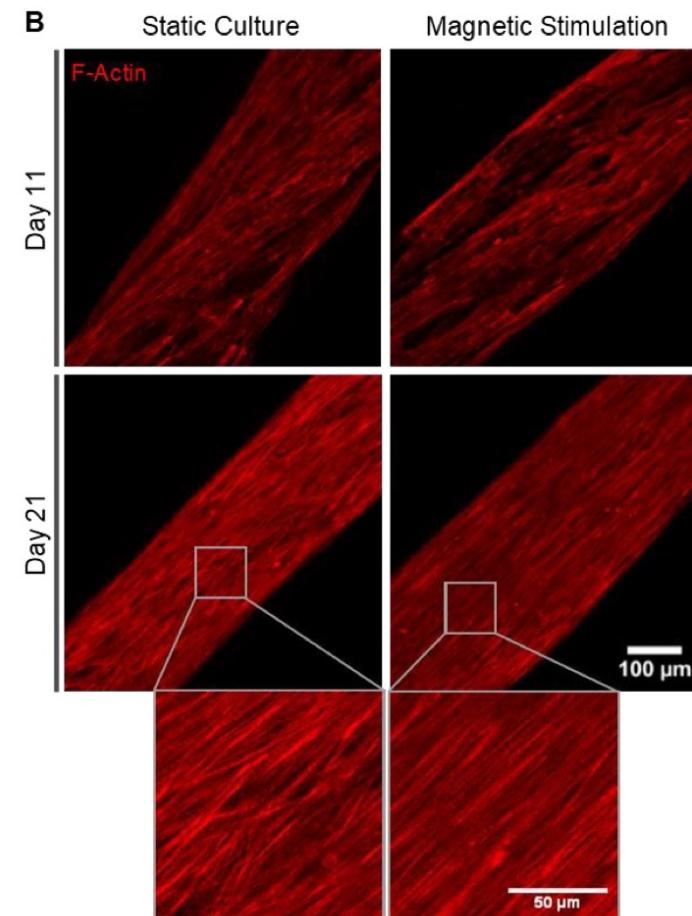


A. R. Tomás et al., *Nanoscale*, 2019, DOI: 10.1039/C9NR04355A.

# Tendon Tissue Engineering

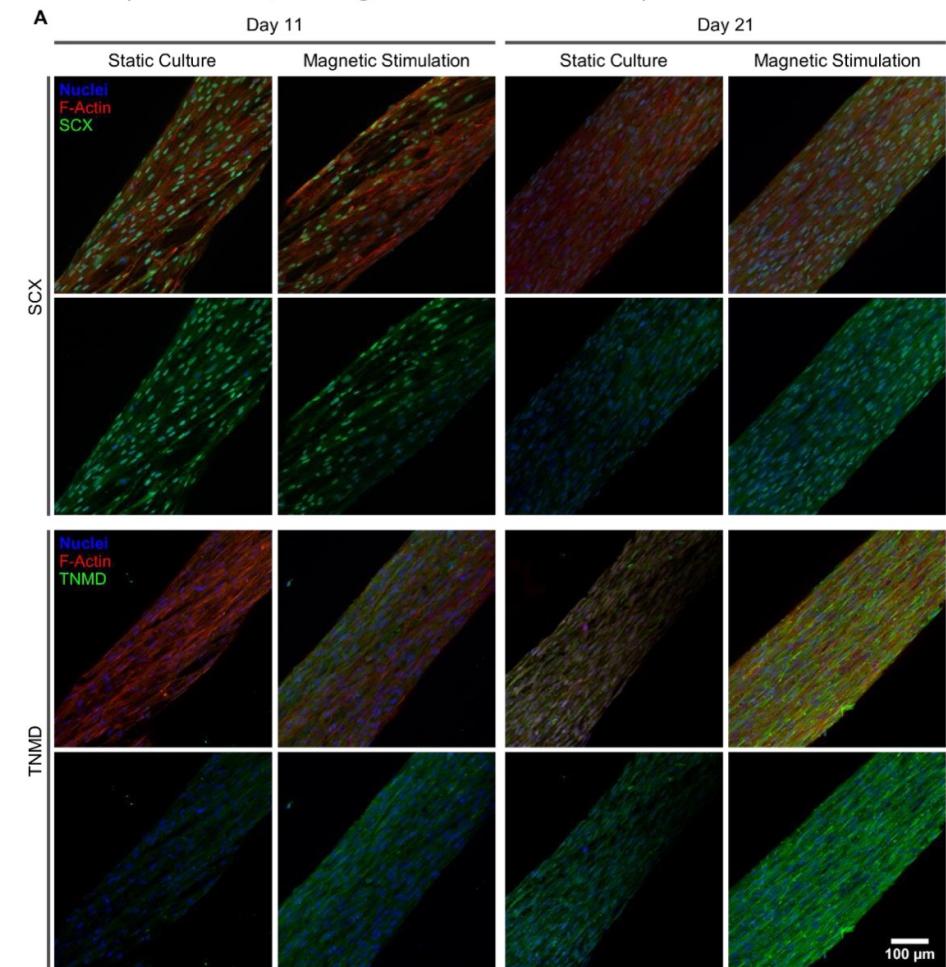
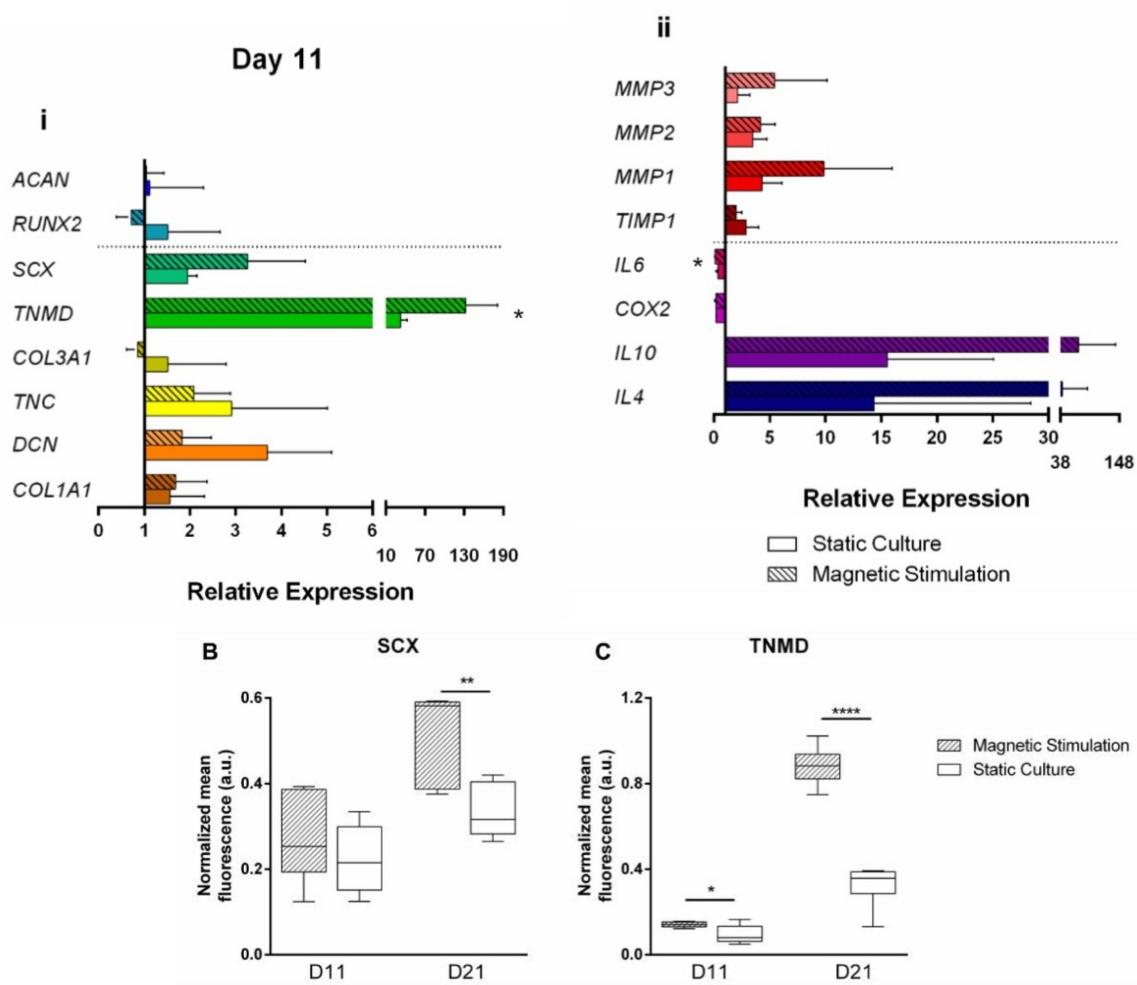


View  
DOI: 10.1039/C



A. R. Tomás et al., *Nanoscale*, 2019, DOI: 10.1039/C9NR04355A.

# Tendon Tissue Engineering



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