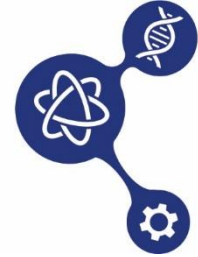


**SEMINARIO
DEPARTAMENTO DE QUÍMICA FÍSICA**

**Jueves 22 de junio de 2023 – 11:30 h
Aula QC03**

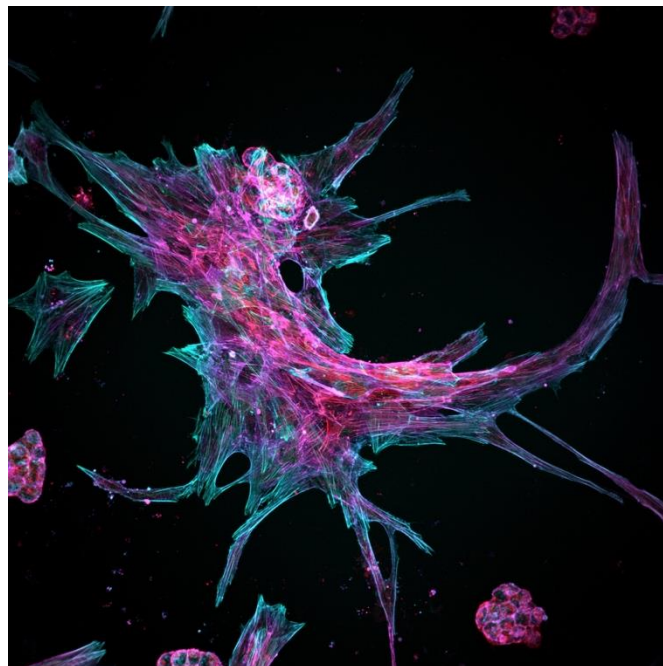


Guillermo Solís

*Unidad de biofísica traslacional - Hospital 12 de Octubre
Departamento de Química-Física - UCM
Gsol01@ucm.es*



**MECHANICAL AND CHEMICAL SIGNALS IN THE CONTEXT
OF CANCER SPREADING AND STEM CELL DIFFERENTIATION**



Often overlooked, the matrix that surrounds and gives supports to the cells, known as the extracellular matrix, has recently become a central study subject in molecular biology. Owing to its high complexity, synthetic polymers that could be used to replace the natural extracellular matrix have not been very successful.

In this work, I will present how a synthetic highly tuneable hydrogel can serve as a great platform for culturing of cancer cells and stem cells and how different mechanical and chemical cues present in this matrix can impact cell behaviour.