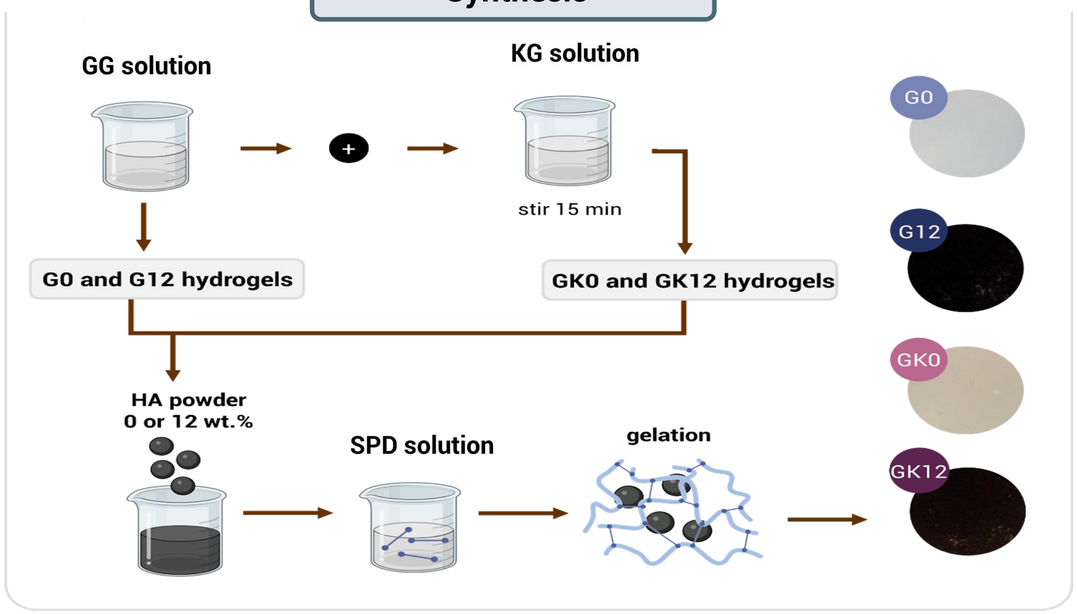
Humic Acid-Enriched Biopolymer Hydrogels: Water Retention, Biodegradation, and Sorghum Growth

Ana V. Torres-Figueroa[1,2], T. del Castillo-Castro[1], J. Pérez-Martínez[2], A. Ochoa-Meza[3],

1Departamento de Investigación en Polímeros y Materiales, Universidad de Sonora, Hermosillo, Sonora, 83000, México.
2Departamento de Ciencias Químico-Biológicas, Universidad de Sonora, Hermosillo, Sonora, 83000, México.
3Departamento de Agricultura y Ganadería, Universidad de Sonora, Hermosillo, Sonora, 83000, México.

Methodology

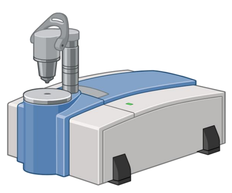
Synthesis



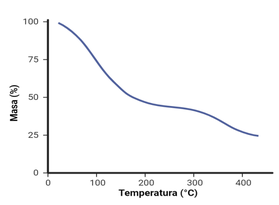
Characterization

Scanning Electron Microscopy (SEM)

Infrared spectroscopy (ATR-FTIR)

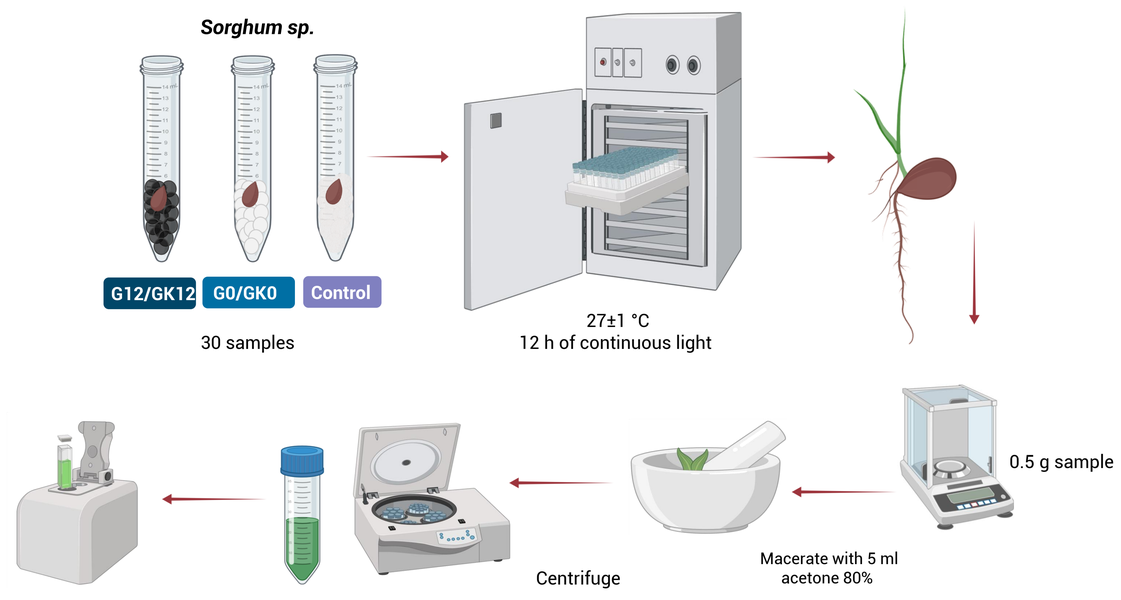


Thermogravimetric analysis (TGA)

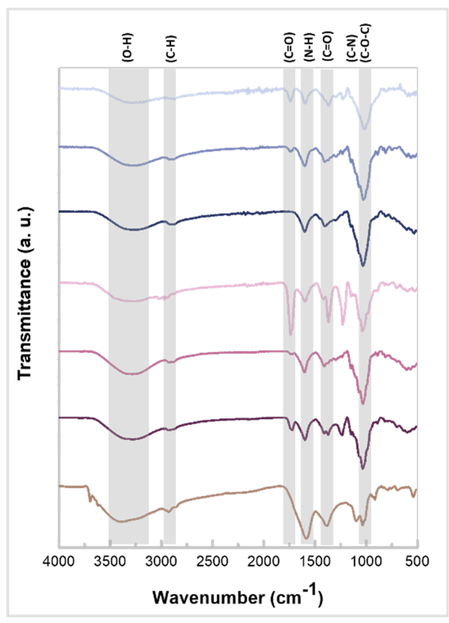


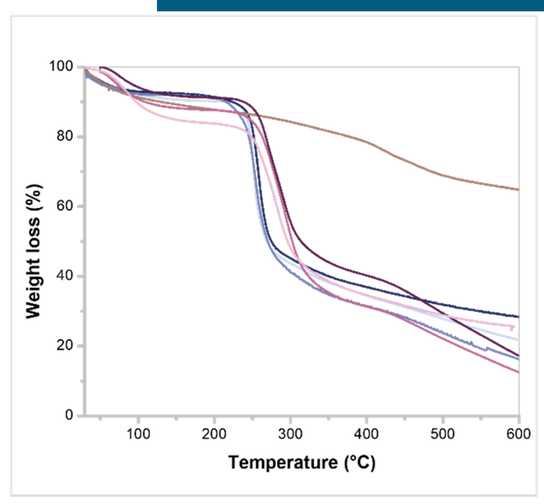
Swelling: soil extract

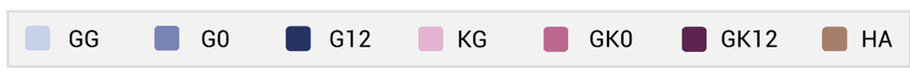
Germination

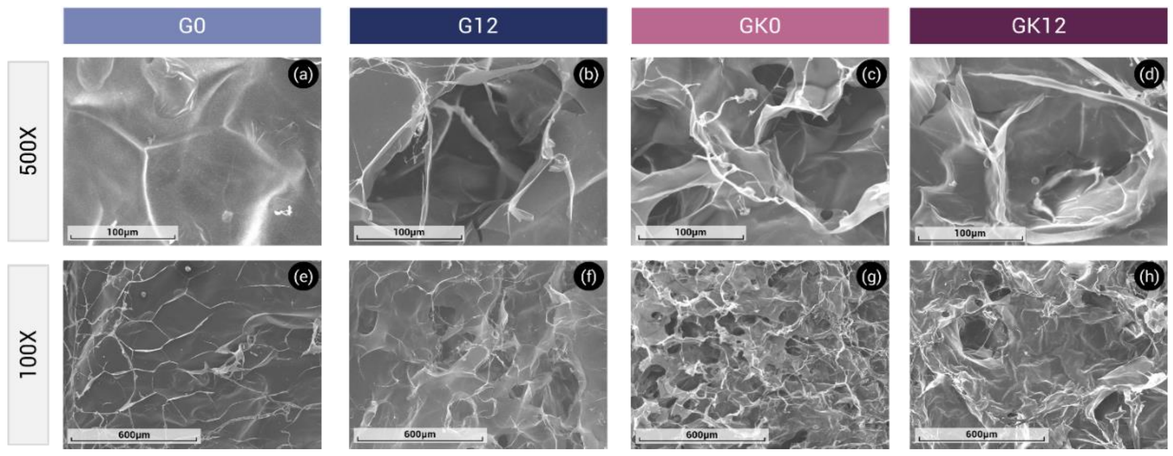


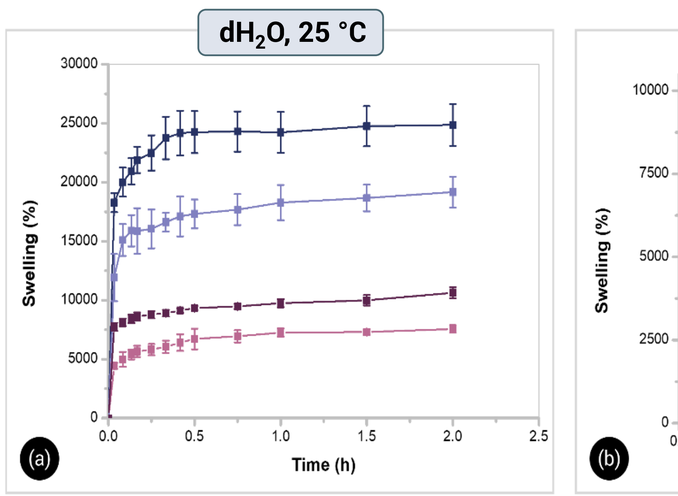
Results

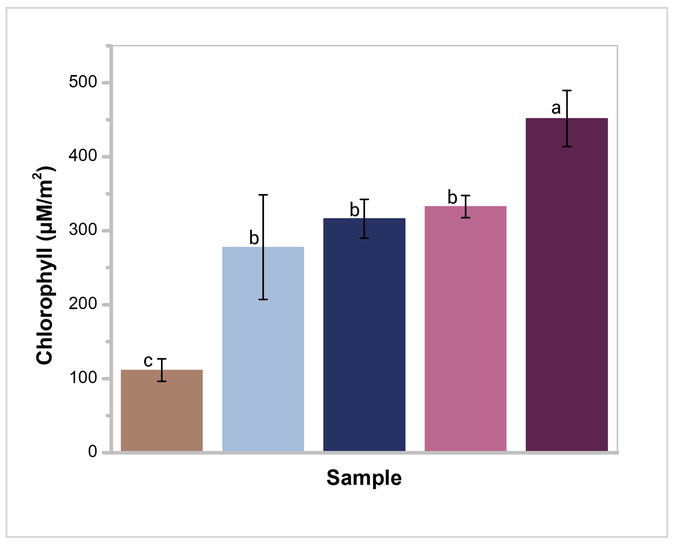












anavaleria.torresf@gmail.com