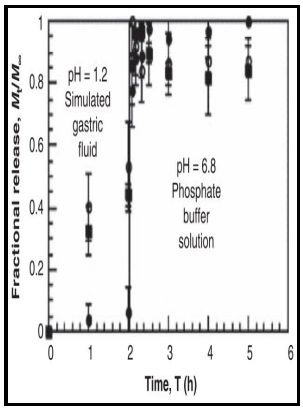
Drug/Water interactions in hydrogel matrices.

University of Aston. Department of Chemistry - Hydrogel



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-Drug/Water interactions in hydrogel matrices.
-Drug/Water interactions in hydrogel matrices.
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Water

Excellent biomaterials and appropriate fabrication methods play crucial roles in developing ideal injectable hydrogels that can function as scaffolds for cartilage- and bone tissue-engineering applications. When used as scaffolds, hydrogels may contain human cells to repair tissue. Yusif RM, Abu Hashim II, Mohamed EA, Badria FAE.

Hydrogels as intelligent materials: A brief review of synthesis, properties and applications

Rajkumar Road, Rajajinagar 2nd Stage, Bengaluru, 56005, India S.

Hydrogels as artificial matrices for cell seeding in microfluidic devices

Hydrogels generated in this manner are sometimes called 'permanent' hydrogels. To obtain the individual enhancement factors, we employ an extended Ogston mesh-size distribution for Ei ex ; Donnan equilibrium for Ei el ; and Henry's law characterizing specific adsorption to the polymer chains for Ei ad. Artificial cartilage made from a novel double-network hydrogel: in vivo effects on the normal cartilage and ex vivo evaluation of the friction property.

Synthetic hydrogels mimicking basement membrane matrices to promote cell

The permeability of water swollen hydrogel preparations to aqueous antibiotic solutions as well as other solutes were studied. Tissue engineering has become a promising strategy for repairing damaged cartilage and bone tissue. A new approach is introduced to compensate drug effects solubility and loading with the release kinetics by varying the structure of heterogeneous polymers.

Water

In vitro and in vivo protein delivery from in situ forming poly ethylene glycol —poly lactide hydrogels.

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