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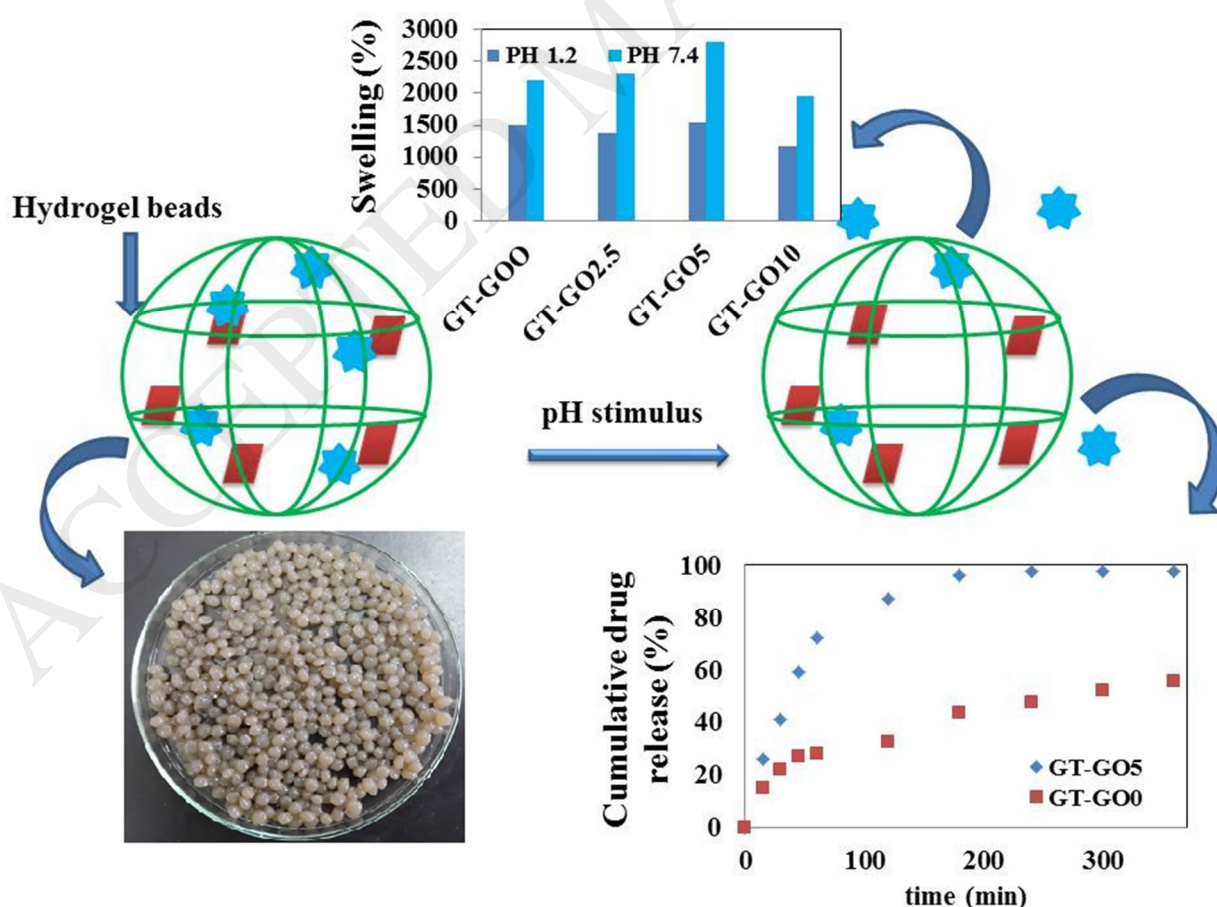
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Graphical Abstract

New spherical porous hydrogel beads based on gum tragacanth (GT) polysaccharide and graphene oxide (GO) were prepared by using ionic crosslink agents such as Ca^{+2} and Ba^{+2} ions. The hydrogel beads showed pH sensitivity and controlled drug delivery. The maximum cumulative release was 97.62 % after 4 h at pH 7.4.



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