

deepening of the research directions seems to require new perspectives from which to view this movement. such perspectives might be found from the humanities, or from the creative sciences. interestingly, recent research on social movements at tsinghua university in china has identified the following attributes of social movements. first, they always have a well-defined rallying point, which they use to gather a crowd. in turn, the crowd manifests a common worldview, which guides their future behaviour. any social movement will not succeed if it does not have a unified platform. in the present study, dexamethasone (dex), a widely used anti-inflammatory drug, was chosen as a model compound to examine the possibility of using a mucoadhesive film for efficient buccal drug delivery 56, 57, 58 . the loading capacities of plga-dex, plga-peg-dex, plga-pva-dex and plga-pda-dex nps were 5.812.38%, 8.681.27%, 10.111.49%, and 10.250.98%, respectively. the in vitro release behavior of dex from different pva-dopa6nps-dex films was then evaluated, and it was clearly observed that all films with different plga nps achieved a sustained drug release profile (supplementary fig. 10). however, the film with incorporated plga-pda nps showed more sustained drug release behavior than the other three nps, which might be attributed to the dense pda coating that formed outside the plga core (fig. 4b) and delayed drug release from the nps and the film. in a predictive sense, sociologists need to ask themselves how they will use their empirical findings. in the qualitative case, sociology tends to do descriptive, or content-driven, analysis. in the quantitative case, it uses mathematical models of the world. sociologists need to decide if they are more comfortable coding qualitative or numerical observations. can they produce a mathematical representation of their data or do they prefer to interpret the data themselves? to answer this question, sociologists need to examine their own coding or analysis procedures. do they require significant amounts of time and expertise to complete? if not, then they can perform their analysis in a relatively simple manner. however, if they need to code each observation or create a mathematical model, then they will need to invest time, effort, and expertise to complete the task.



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to quantify how mobility and diffusion of nps are affected by mucus viscosity, the trajectories of plga-peg nps in 0.1mg/ml and 4mg/ml mucus were analyzed using mpt. it was found that the effective diffusivity of plga-peg nps in mucus decreased as the viscosity was increased from 0.1 to 4mg/ml (fig. 5a). the

slopes of the msd vs time curve on a log-log scale (fig. 5b) were then used to reflect the extent of impediment to diffusion. the effective diffusivity increased as viscosity was increased from 0. 5c). to analyse the uptake of nps by cell-cell junctions, hok were incubated with plga-peg nps, and the cell-cell junctions were then stained with anti-e-cadherin, an epithelial cell adhesion molecule (e-cad). interestingly, the fluorescence intensities of the plga-peg nps were significantly higher than that of the plga nps (fig. 5d). moreover, plga-peg np uptake by the cell-cell junctions was found to be higher than that of plga-pva np uptake by cell-cell junctions. to quantify the results, hok uptake was assessed by measuring the cell uptake efficiencies of plga-peg and plga-pva nps using tem images (fig. 5e and supplementary fig. s8). finally, the change in cell spreading areas was quantified after the uptake of plga-peg and plga-pva nps (supplementary fig. to further confirm the effect of mucus on the uptake of nps, the fluorescence intensities of nanoparticles were quantified in the presence of 0.1mg/ml mucus. surprisingly, we found that the uptake rates of plga-peg and plga-pva nps were lower than those measured in the absence of mucus. these data indicate that mucus has a dampening effect on cellular uptake efficiency 24, 43 . to quantify the uptake of nps in the presence and absence of mucus, tem images were taken (fig. 5f and supplementary fig. s9). first, the cell size and cell area were used as quantitative indicators. the results show that the cell area is significantly smaller, which may indicate a collapsed cytoplasm, in the presence of mucus (p 5ec8ef588b

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