

The illustration depicts a large purple dendritic cell with multiple branching processes. Inside the cell, a large blue nanogel is shown with a network of blue polymer chains and yellow antigen molecules. Scissors icons indicate the cleavage of disulfide bonds (S-S) within the nanogel. Outside the cell, several smaller blue nanogels are shown, some with yellow antigen molecules attached. The background is a solid green color.

# ADVANCED FUNCTIONAL MATERIALS

## CATIONIC NANOGELS

On page 2993, C. van Nostrum and co-workers demonstrate the reversible immobilization of an antigen in a nanogel by electrostatically driven post-loading and subsequent disulfide bond formation. The antigen is stably encapsulated outside cells, but rapidly released after uptake of the nanogels by dendritic cells, by the action of the reducing intracellular environment.