FT, April 30, 2004 Sticky method to beat germs · As bacteria become resistant

to existing antibiotics,

scientists around the world are searching for new approaches. The latest comes from an international group of chemists from the

UK, US and Canada. They propose to use branched sugar-like molecules, called

glycodendrimers, to grasp germs in a sticky embrace. Attached to the glycodendrimer is an

enzyme that will destroy bacterial proteins. In laboratory tests the

group, led by Ben Davis of Oxford University, showed that the approach worked against a germ called Actinomyces naeslundii. By changing the shape of the

glycodendrimer, the chemists hope to make it. bind to different bacteria. Their study is published in the Journal of the American Chemical Society. "We are trying to block infection before it even gets

going," says Mr Davis. "The glycodendrimer inhibits the binding but then the enzyme that is attached to the glycodendrimer swings around, chews up the protein on the surface and renders it unable to grab hold of the host it wants to

infect." Oxford University: www.ox.ac.uk

clive.cookson@ft.com