

29028 Prevention of Bacterial Adhesion

The Technology

We are seeking a development partner or potential licensee for a series of novel peptides that exhibit extremely high **non-specific** inhibition of bacterial adhesion to epithelial cell surfaces developed at the University of Sheffield

The peptides have been tested in vitro in two separate epithelial cell lines and they have shown >50% prevention of bacterial adhesion in all of 7 different bacterial species tested so far.

We believe that these molecules present an attractive basis for the development of prophylactic anti-bacterial product to prevent hospital acquired infections.

- Three peptide molecules based on the extracellular domain of tetraspanins (proteins found in the membranes of epithelial cells) have been created that interfere with bacterial binding

Recombinant versions of these proteins are active at nM concentrations and both forms are stable for >12 months at -20°C

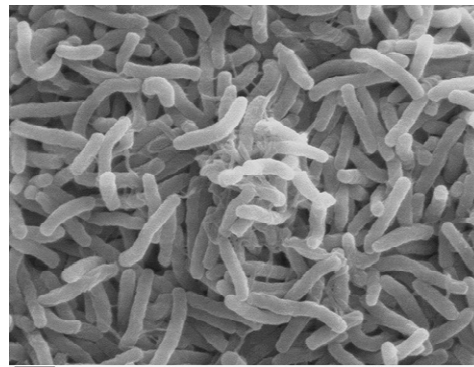


Image: Cholera bacteria (used with permission)

Intellectual Property

A patent application has been filed that covers various aspects of this technology and its possible applications.

The Opportunity

We are currently seeking a commercial partner and licensee to collaborate on the pre-clinical and clinical development of these proteins and peptides as a prophylactic product to prevent the occurrence of hospital acquired infections.

For commercial enquiries on this technology, please contact Andrew Tingey, quoting reference 29028.

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FOR MORE INFORMATION CONTACT:

Dr. Andrew Tingey

andrewtingey@fusionip.co.uk

+44(0) 114 275 5569

Fusion IP Licensing

The Sheffield Bioincubator

40 Leavygreave Road

Sheffield

S3 7RD

