## ELECTRONIC SUPPORTING INFORMATION

## Manipulation of Cytokine Secretion in Human

## Dendritic Cells using Glycopolymers with Picomolar

## Affinity for DC-SIGN

Daniel A. Mitchell1 ${ }^{1,2^{*}}$, Qiang Zhang ${ }^{3}$, Lenny Voorhaar ${ }^{3}$, David M. Haddleton ${ }^{3}$, Shan Herath ${ }^{4}$, Anne S. Gleinich ${ }^{1}$, Harpal S. Randeva ${ }^{1,2}$, Max Crispin ${ }^{5}$, Hendrik Lehnert $^{6}$, Russell Wallis ${ }^{7}$, Steven Patterson ${ }^{4}$ \& C. Remzi Becer ${ }^{8 *}$

${ }^{1}$ Clinical Sciences Research Laboratories, University of Warwick, Coventry CV2 2DX, UK
${ }^{2}$ University Hospital Coventry \& Warwickshire NHS Trust, Coventry CV2 2DX, UK
${ }^{3}$ Department of Chemistry, University of Warwick, Coventry CV4 7AL, UK
${ }^{4}$ Chelsea \& Westminster Hospital, Imperial College School of Medicine, London SW10 9NH, UK
${ }^{5}$ Glycobiology Institute, University of Oxford, Oxford OX1 3QU, UK
${ }^{6}$ Universität zu Lübeck, 23562 Lübeck, Germany
${ }^{7}$ Department of Biochemistry, University of Leicester, Leicester LE1 9HN, UK
${ }^{8}$ Polymer Chemistry Laboratory, School of Engineering and Materials Science, Queen Mary
University, London E1 4NS, UK

Corresponding authors: d.mitchell@warwick.ac.uk or r.becer@qmul.ac.uk


Figure S1. ${ }^{1} \mathrm{H}$ NMR of linear pTMSMA before (blue line) and after deprotection (orange line) measured in $\mathrm{CDCl}_{3}$.


Figure S2. FT-IR spectra of mannose azide after filtering out the sodium azide (red line) and after prufication on an Amberlite column (green line).


Figure S3. ${ }^{1} \mathrm{H}$ NMR spectra of p (propargyl MA) in $\mathrm{CDCl}_{3}$ (green line) and mannose azide clicked polymer in DMSO-d6 (red line).


Figure S4. Atom transfer radical polymerization kinetics of TMSMA homopolymer, DEGMA-TMSMA random copolymer and TMSMA 8-arm star shaped homopolymer.


Figure S5. Competition binding of gp120 against CD4. Dendritic cells and lymphocytes were first incubated with an unlabeled gp120 and then stained with an anti-CD4 antibody. Cells were analyzed by flow cytometry and the data represents one of 2 donors.

