

Supplemental Data

Figure S1

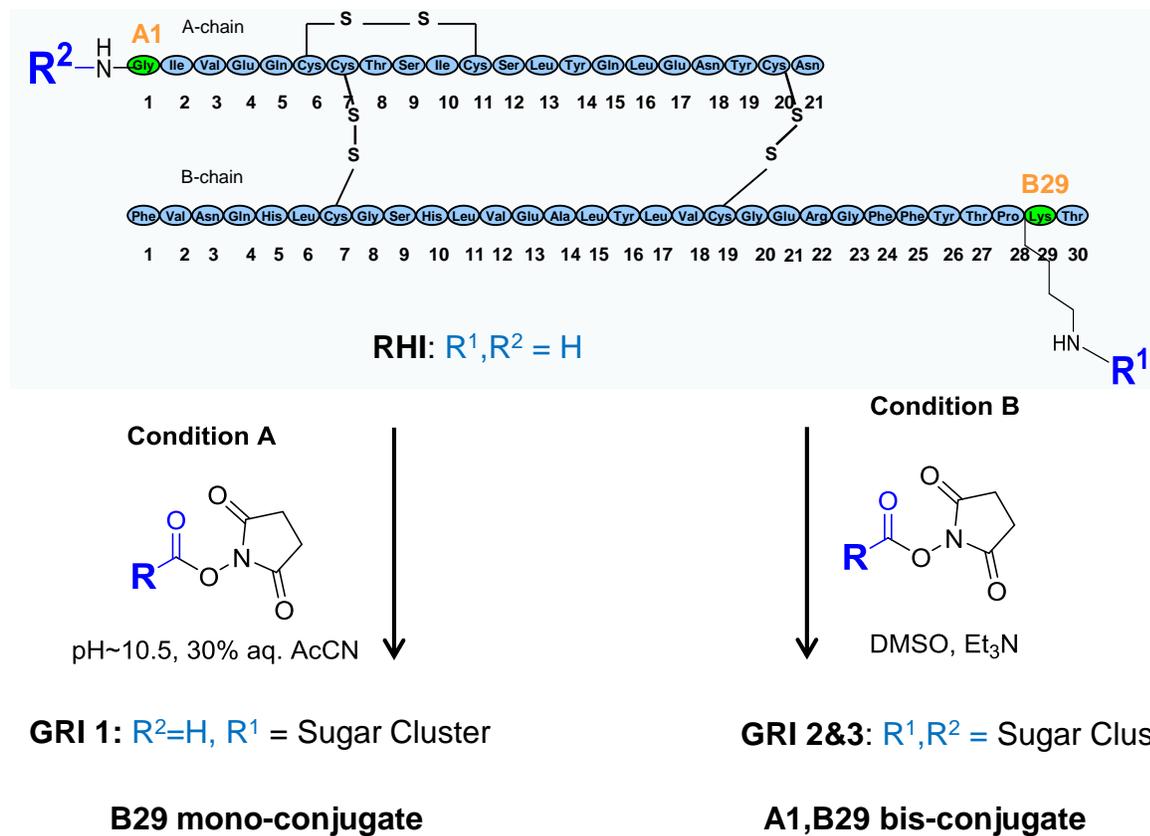


Figure S1. GRI Synthesis Scheme 1

GRI1, GRI2 and GRI3 can be synthesized under anhydrous conditions or aqueous conditions, leading to A1, B29 bis-conjugation and B29 mono-conjugation, respectively (see **Figure 1A** for structures of sugar clusters)

Figure S2

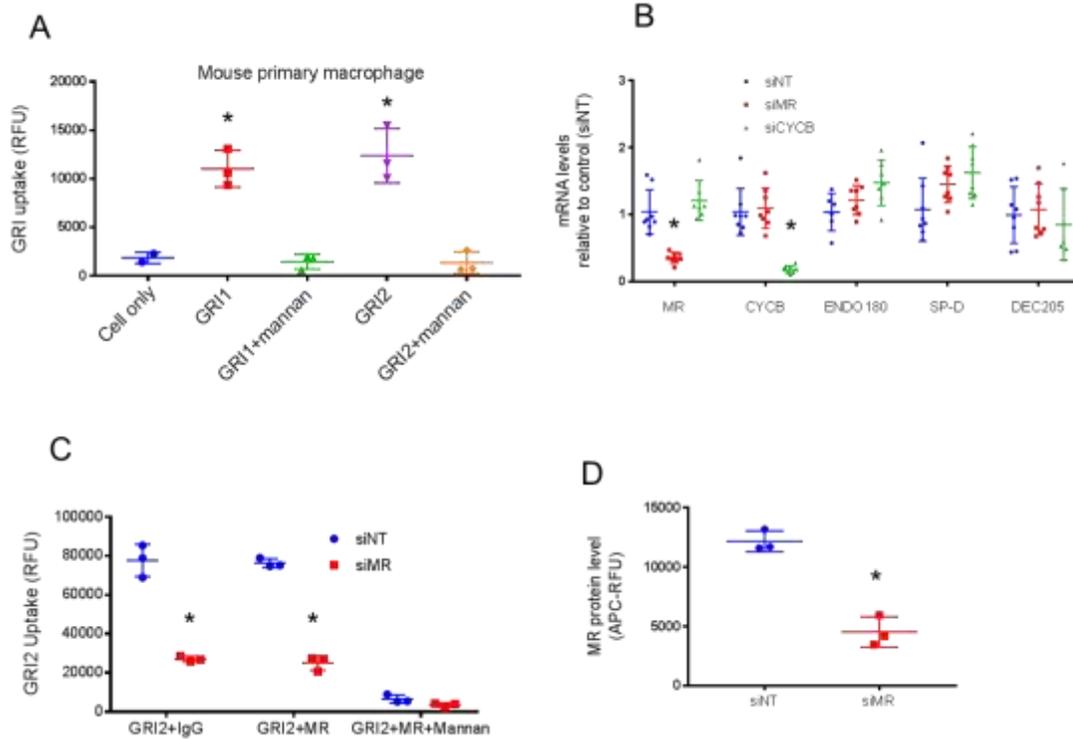


Figure S2. GRI Uptake Mediated by MR in Macrophage Cells

(A) GRI1 and GRI2 uptake assay was performed in primary mouse macrophages by MCSF-induced monocytes differentiation. N=2-3 per group. * $p < 0.05$ Corresponding GRI vs. GRI + mannan by Student's T test. (B) Knockdown of mannose receptor by siRNA did not change levels of other lectins in rat NR8383 macrophages. N=6-8 per group. * $p < 0.05$ vs. siRNA control (siNT) by Student's T test. (C-D) GRI2 uptake assay in response to siRNA induced mannose receptor knockdown was performed in human primary macrophages by MCSF-induced monocytes differentiation. Human MR siRNA transfection resulted in a 60% reduction of MR membrane levels compared to non-targeting siRNA control, and this corresponded to a 70% reduction of GRI2 uptake. Membrane MR levels were measured by flow cytometry using APC-

labeled MR antibodies. N=3 per group. *p<0.05 vs. siRNA control (siNT) by Student's T test.

Results are shown as mean \pm SD of values and represent 2-3 independent experiments.