immunization of animal with a vaccine

Figure 1
incubating cells with Neu5Ac

RCO = propionyl, butanoyl, levinoyl, etc.

Figure 2
treating cells with ManNR

ManNPr: $R = \text{CH}_3\text{CH}_2$
ManNBu: $R = \text{CH}_3\text{CH}_2\text{CH}_2$
ManNiBu: $R = (\text{CH}_3)_2\text{CH}$
ManNPAc: $R = \text{C}_6\text{H}_5\text{CH}_2$

PrGM3: $R = \text{CH}_3\text{CH}_2$
BuGM3: $R = \text{CH}_3\text{CH}_2\text{CH}_2$
iBuGM3: $R = (\text{CH}_3)_2\text{CH}$
PAcGM3: $R = \text{C}_6\text{H}_5\text{CH}_2$

Figure 3
Figure 4

SKMEL-28

A

FL1-surface PAcGM3

Events

Period with 40 μM ManPAc

NMS

B

[ManPAc]

- 10 μM
- 20 μM
- 40 μM

MFV

Period of Incubation (h)

0 12 24 48

15 20 25 30 35 40 45 50

Figure 4
Figure 5

Panel A:
- FL1-surface PAcGM3 vs. Events
- 48 h
- 24 h
- 12 h
- 0 h
- Period with 40 μM ManPAc
- NMS

Panel B:
- MFV vs. Period of Incubation (h)
- [ManPAc]:
  - 10 μM
  - 20 μM
  - 40 μM
Figure 6

B16-F0

Period with 40 μM ManPAc

FL1-surface PAcGM3
Figure 7

A

GM3 modification

B

GM3 Modification

Figure 7
Figure 8

Percent cytotoxicity

[ManPAC] (μM)

K562 1:10
B16 1:10
SKMEL28 1:10