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## **Schistosoma mansoni: structural and biophysical aspects of Lewis X-antibody interactions**

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## Stellingen

behorende bij het proefschrift

### ***Schistosoma mansoni*: structural and biophysical aspects of Lewis X-antibody interactions**

1. Mono- and oligomeric Lewis X are different immunological entities.  
This thesis, chapters 3 and 6.
2. Binding of Lewis X to monoclonal antibody 291-2G3-A hardly induces any structural changes in either the protein or the carbohydrate.  
This thesis, chapter 5.
3. The fact that monoclonal antibodies which recognize monomeric Lewis X can give different staining patterns in immunofluorescence assays suggests that in biological systems the presentation of the antigen is also an important factor in recognition.  
Van Remoortere, A.; Hokke, C.H.; van Dam, G.J.; van Die, I.; Deelder, A.M. and van den Eijnden, D.H., **2000**, *Glycobiology*, *10*, 601-609. This thesis, chapter 3.
4. It has never been demonstrated that schistosomes produce the human milk sugar Lacto-*N*-fucopentaose III, contrary to claims of Harn and co-workers.  
Okano, M.; Satoskar, A.R.; Nishizaki, K. and Harn, D.A., **2001**, *J. Immunol.*, *167*, 442-450.
5. Building a random RNA oligomer (polyU) with a low occupancy and high temperature factors and with a random geometry into weak electron density inside a viral protein capsid, without mentioning whether the  $R_{\text{free}}$  dropped after refinement, does not add any conclusive information concerning the protein-RNA interactions in the capsid and implications for RNA encapsidation.  
Larson, S.B.; Day, J.; Canady, M.A.; Greenwood, A. and McPherson, A., **2000**, *J. Mol. Biol.*, *301*, 625-642. This thesis, chapter 8.

6. When Nyame and co-workers indicate they want to study the potential of polymeric Lewis X as a target for immune-mediated intervention of schistosome infections and serodiagnosis, they should not exclusively use monomeric Lewis X in their studies.  
Nyame, A.K.; Lewis, F.A.; Doughty, B.L.; Correa-Oliveira, R. and Cummings, R.D. **2003**, *Experimental Parasitology*, *104*, 1-13.
7. Developers of X-ray data-processing software should consider color-blind people when designing the layout of the graphical user interface.  
HKL2000, Otwinowski, Z. and Minor, W. **1997** *Methods Enzymol.* *276*, 307-326.
8. People who wish to submit the coordinates of their protein structure to the protein data bank without giving the structure factor amplitudes should justify their reason for doing so.
9. The indiscriminate use of a graphical interface and default values to run a program does not promote a better understanding of the theory underlying the program.
10. Putting a cat on a vegetarian diet is a form of animal abuse.
11. The definition of "the Greatest" should not be confused with "the most popular".  
The "grootste Nederlander" show, KRO, october 2004.

Marika van Roon  
25 januari 2005