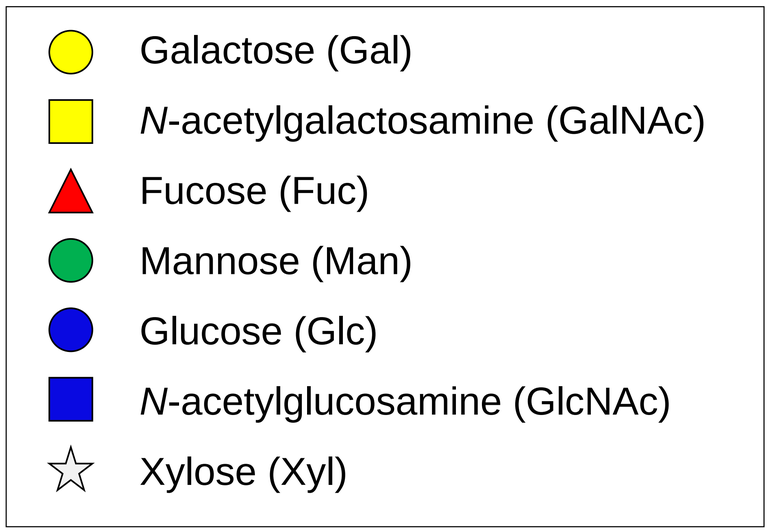
Poster appendix #4 – Comparison of *S. haematobium* and *S. mansoni* N-glycans

Proteins were extracted in parallel from the cercariae (A), adult worms (B) and eggs (C-D) of *S. haematobium* (left panels) and *S. mansoni* (right panels). N-linked glycans were released from their glycoprotein carriers using PNGase F (A-C) and PNGase A, sequentially (D) prior to 2-AA labeling. Released and labeled glycans were next analyzed using MALDI-TOF-MS. All spectra were acquired in negative-ion reflectron mode and signals are labeled with monoisotopic masses (*m/z*). The 15 most intense ion species based on % of total signal intensity of the MALDI-TOF-MS spectrum were annotated with corresponding glycan structures, as previously determined using MALDI-TOF-MS in combination with glycan sequencing techniques and MALDI-TOF-MS/MS.

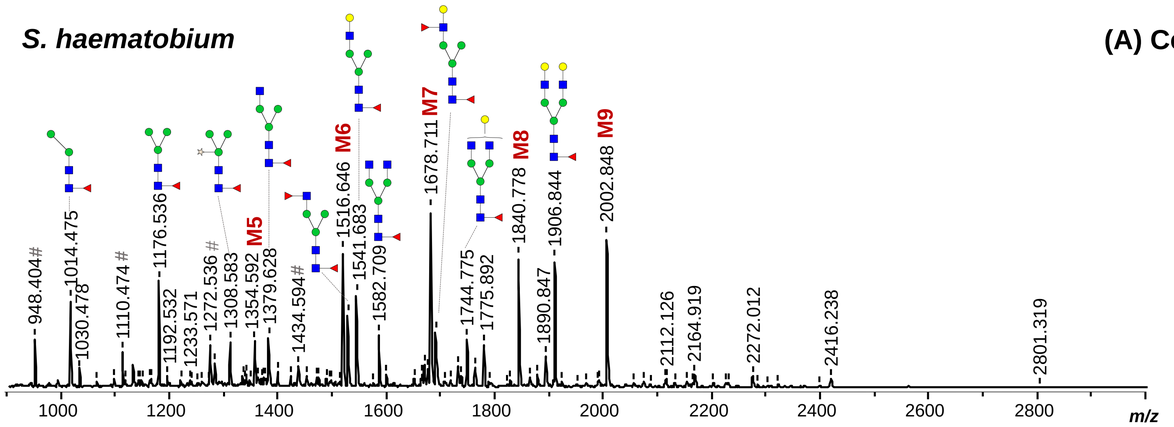
All glycans are represented using the CFG nomenclature (see inset below). Known non-glycan signals are labeled with the # symbol. M3 to M9 are used to label oligomannosidic N-glycans with 5 to 9 mannose residues.

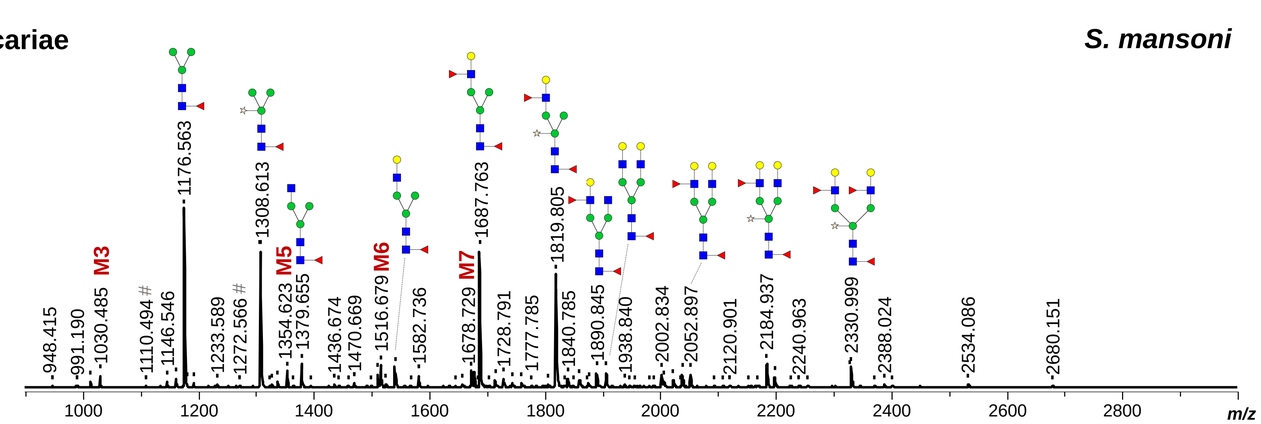


S. haematobium

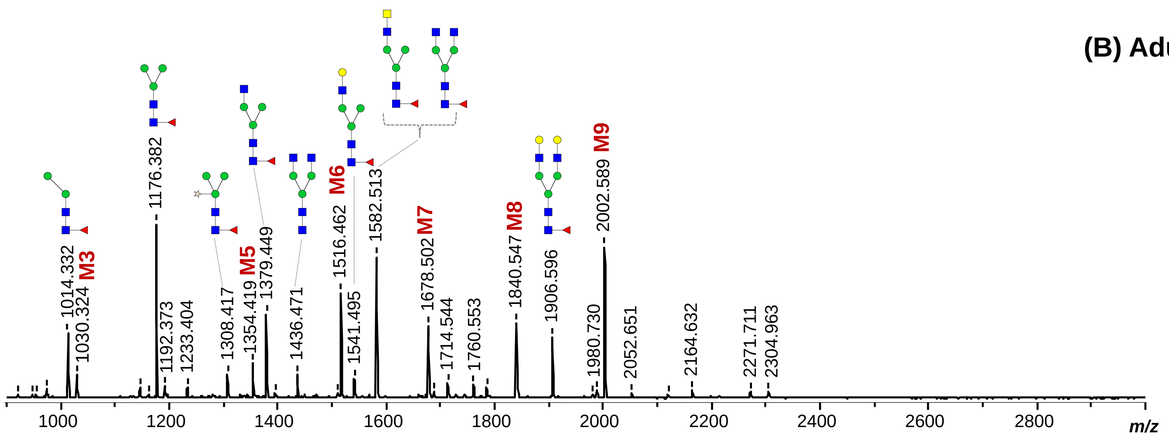
(A) Cercariae

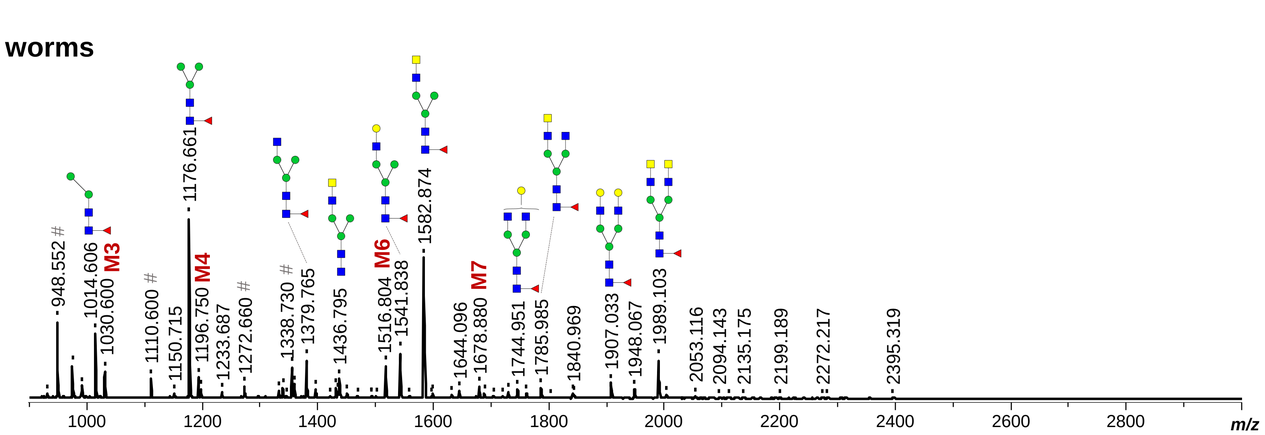
S. mansoni



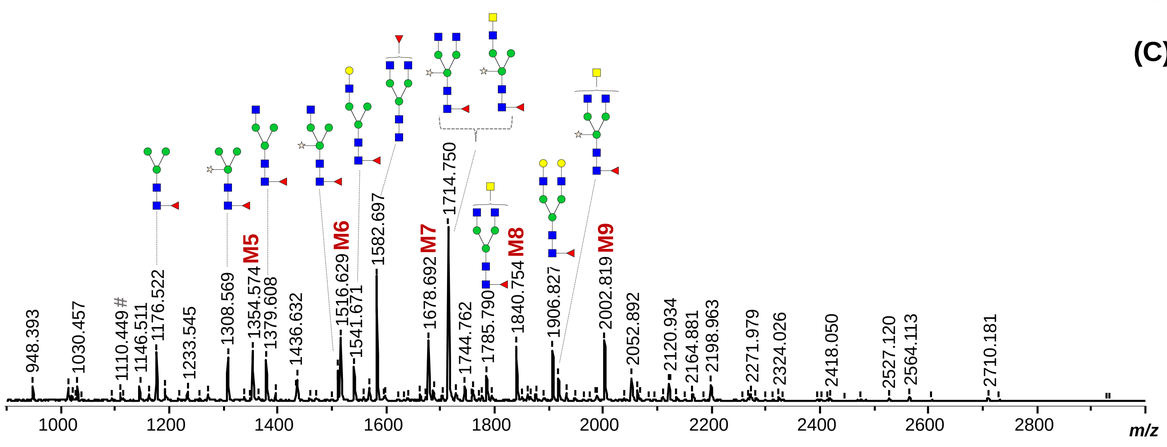


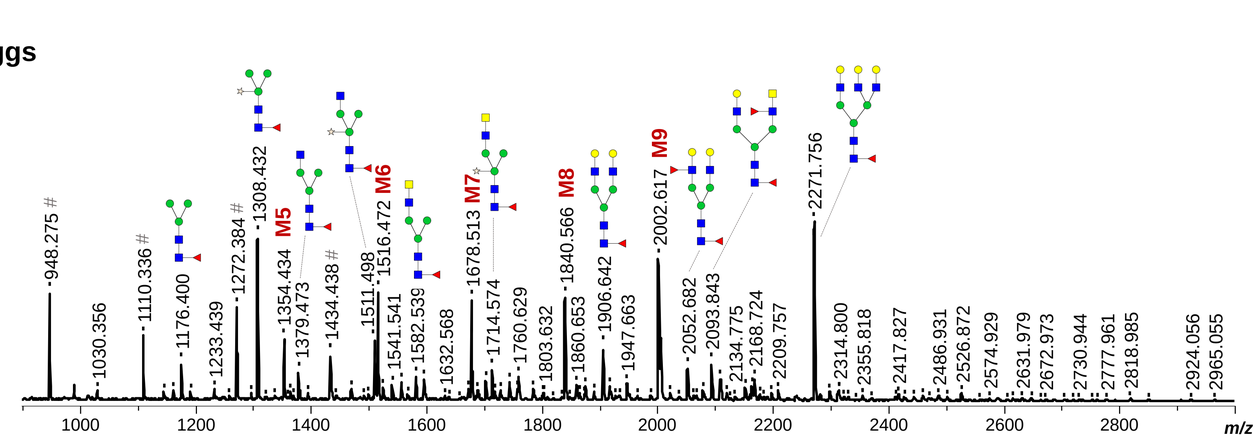
(B) Adult worms





(C) Eggs





(D) Eggs – PNGase A