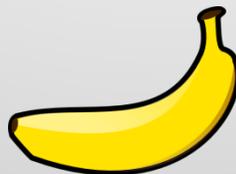


12.06.2013

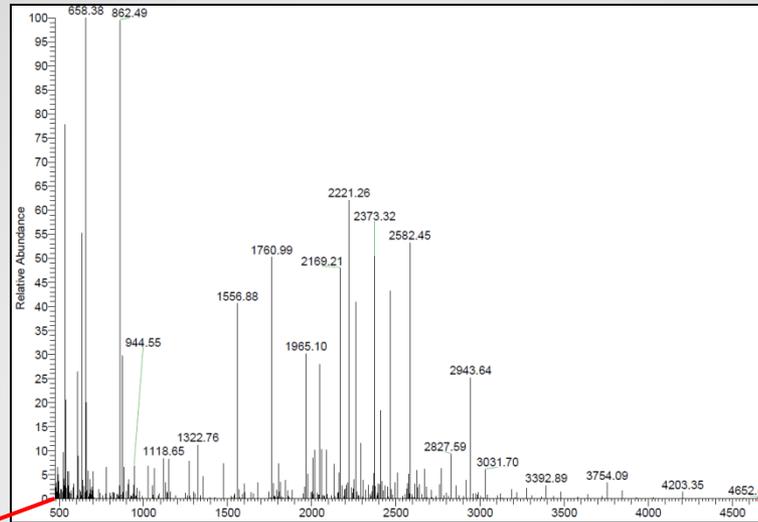
René Ranzinger
3rd Beilstein Symposium on
Glyco-Bioinformatics



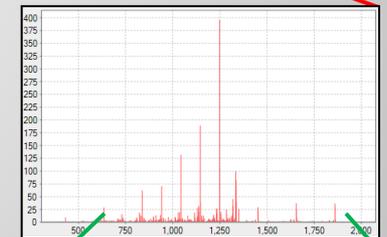
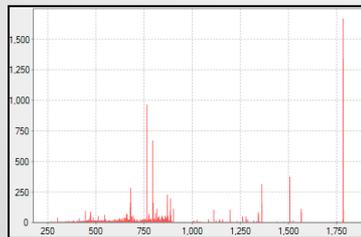
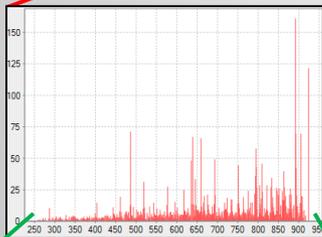
Simian Tools Demo



MSⁿ Data



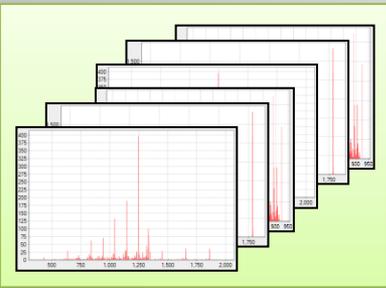
Up to several hundred MS²



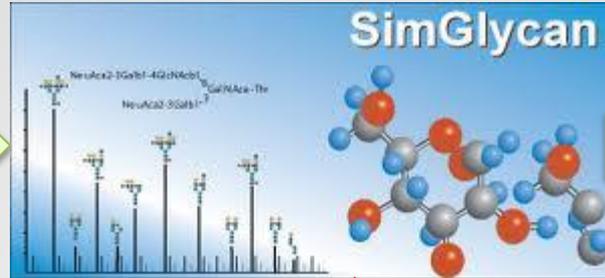
0 - several MS³ per MS²



SimGlycan



Data



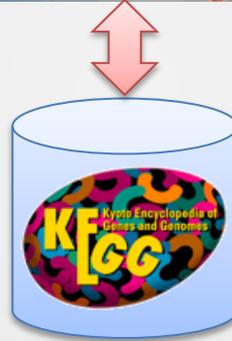
Annotation

Figure showing the SimGlycan 2.0 software interface. The main window displays a search result table for Profile1 and detailed glycan information for the selected entry.

MS/MS Data File	Search Result				
	Glycan ID	Glycan S.	Composi.	Branching	Glycan R.
Profile2	G12386	Fuc(1-2)GalNAc1	1	1	
Profile3	G05686	Fuc(1-2)GalNAc1	2	2	
Profile4	G20024	Fuc(1-2)GalNAc1	3	3	
Profile5	G12340	Fuc(1-2)GalNAc1	4	4	
Profile6	G05720	Fuc(1-2)GalNAc1	5	5	
Profile7	G20042	Fuc(1-2)GalNAc1	6	6	

Glycan Information

Glycan Structure		Glycan Fragments	
Name			
Sequence	Fuc(1-2)GalNAc(1-3)Gal(1-4)GlcNAc(1-7)Gal(1-4)Glc		
Composition	C48H78O44N10S1		
Glycan Mass	1039.0		
Precursor Ion m/z	1057.39		
Class	Oligosac., Sphingolipid		
Reaction	R06187.R06198		
Pathway	map00602_Blood_serum_and_cerebrospinal_fluid_synthesis_neolactoseries		
Enzyme	2.4.1.40		
Other DB links	CCSD: 1179, 1180, 1181, 1182, 1183, 1185, 8572, 11333.		



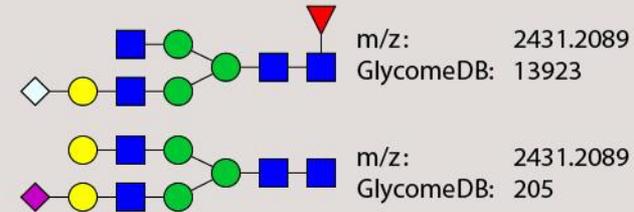
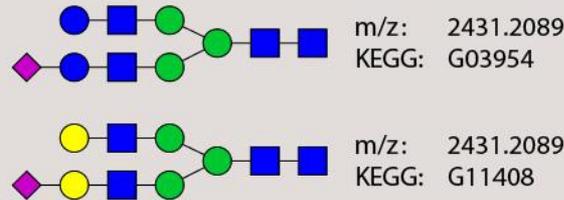
Benefits of customized databases

m/z

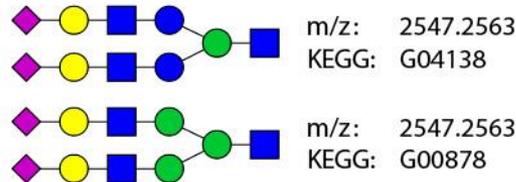
SimGlycan™ database

Customized database

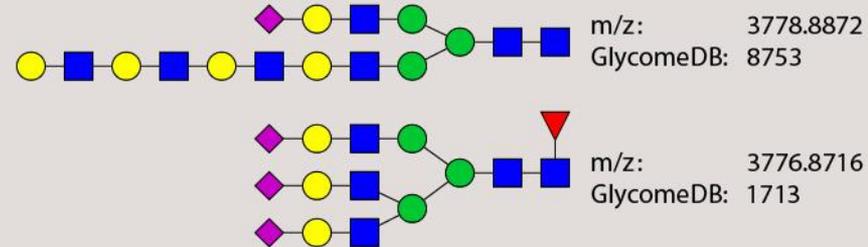
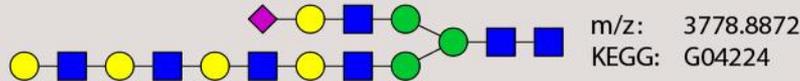
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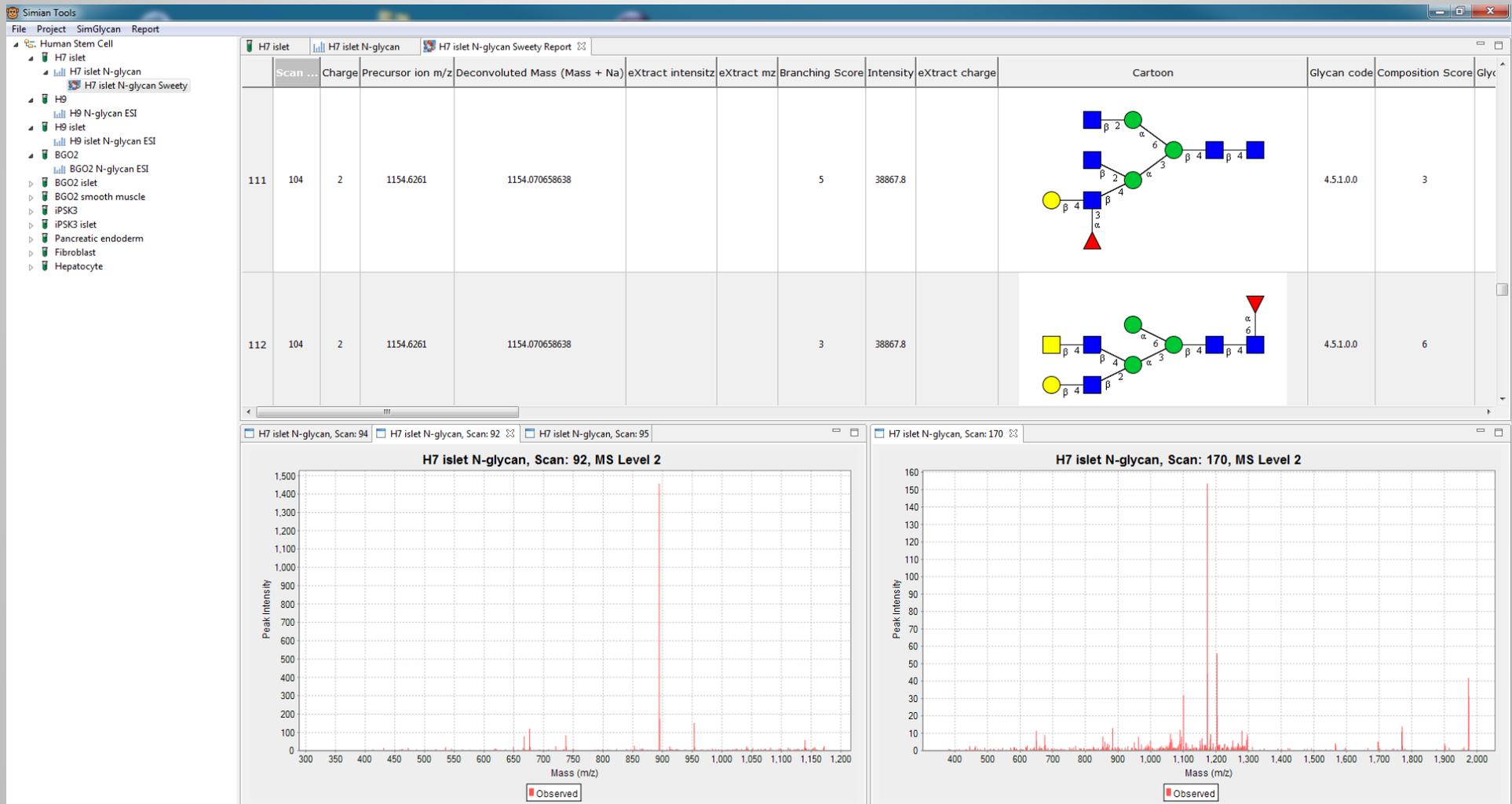
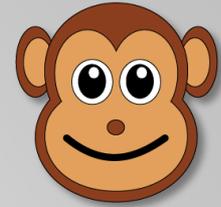
2547.30



3777.95



SimianTools Demo





Will York

Michael Tiemeyer



Project management
Software design
Software development



René Ranzinger



Software design
Testing
Sales

Mindy Porterfield



SimianTools

Brent Weatherly

Software development
GUI development



Ki Tae Myoung

Software development
GUI development

