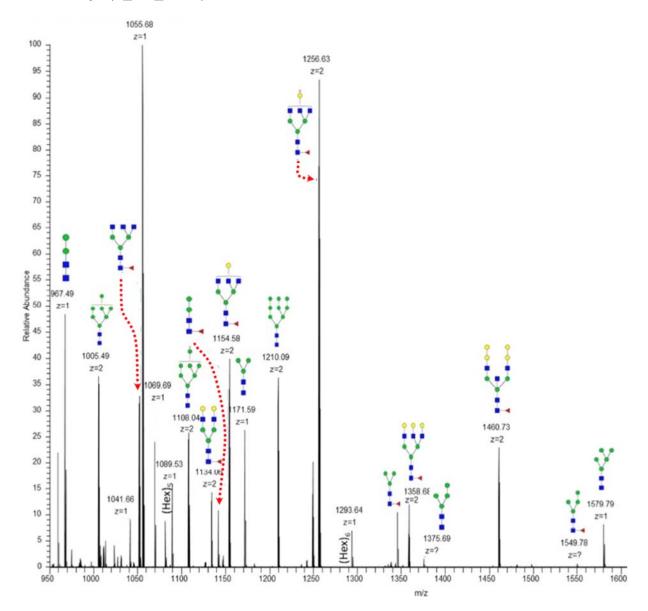
SFig. 1
N-glycan profiles in the lone star tick. Samples are for females and males of salivary glands (FSG and MSG) and carcasses (MCC and FCC) before the onset of feeding, 2 days after, and 5 days after feeding attachments (0dAF, 2dAF, and 5dAF). The percent total ion is shown with the heatmap with m indicating the mix of two different glycans. The m/z and deduced glycan structures are shown.

ine m	ı/z and deduced g	llycan structures are s								
			FSG-UF	FSG-2dF	FSG-5dF	MSG-UF	MSG-2dF	MSG-5dF	MCC-5dF	FCC-5d
733.3734	(HexNAc) ₂ (Deoxyhexose) ₁	.I	0	0	0	0	0	0	0	6
763.3841	(Hex) ₁ (HexNAc) ₂	***	0	0	0	0	0	0	0	5
937.4541	(Hex) ₁ (HexNAc) ₂ (Deoxyhex ose) ₁	I	5	3.04	0	0	0.82	15.65	32	10
967.4837	(Hex) ₂ (HexNAc) ₂	•••	0	8.18	0	11	3.8	4.85	15	71
1111.563	(Hex) ₁ (HexNAc) ₂ (Deoxyhex ose) ₂	•• •	0	0	0	0	0	0	11	0
1141.573	(Hex) ₂ (HexNAc) ₂ (Deoxyhex ose) ₁	<u>-</u>	0	1.24	3.39	3	0.08	0.82	21	5
1171.584	(Hex) ₃ (HexNAc) ₂	> →	0	3.43	1.13	0	0.53	0.01	4	1
1315.662	(Hex) ₂ (HexNAc) ₂ (Deoxyhex ose) ₂	•••	0	0	0	0	0	0	5	0
1331.658	(Hex) ₃ (HexNAc) ₂ (Pent) ₁	>	0	0	0.03	0	0	0.07	0	0
1345.672	(Hex) ₃ (HexNAc) ₂ (Deoxyhex ose) ₁	> I	0	1.32	2.16	0	0.22	0.04	7	0
1375.684	(Hex) ₄ (HexNAc) ₂	*>	0	0.18	0.03	0	0.01	0	0	0
1386.7	(Hex) ₂ (HexNAc) ₃ (Deoxyhex ose) ₁	•••••	0	0	0.01	0	0	0	0	0
1519.762	(Hex) ₃ (HexNAc) ₂ (Deoxyhex ose) ₂	> <u>I</u>	0	0	0	0	0	0	1	0
1549.772	(Hex)4 (HexNAc)2 (Deoxyhexose)1	****	0	0.02	0	15	0.01	0	1	2
1579.787	(Hex) ₂ + (Man) ₃ (GlcNAc) ₂	₽ ₂	5	12.92	0.58	20	19.36	12.01	0	0
1590.8	(HexNAc) ₁ (Deoxyhexose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.23	1.13	0	0.01	0.94	0	0

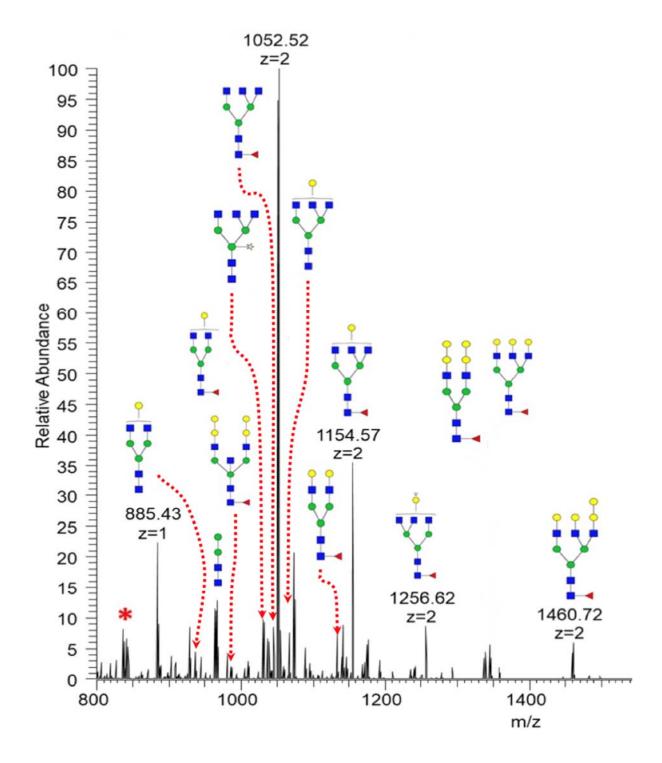
1661.836	(HexNAc) ₂ + (Man) ₃ (GlcNAc) ₂	****	0	0	2.64	0	0	0	0	0
1753.872	(Hex) ₂ (Deoxyhexose) ₁ + (Man) ₃ (GlcNAc) ₂	>I	0	6.15	0	2	7.13	0	0	0
1783.882	(Hex) ₃ + (Man) ₃ (GlcNAc) ₂	≥	17	12.21	1.46	14	13.66	7.86	0	0
1794.899	Hex) ₁ (HexNAc) ₁ (Deoxyhexo se) ₁ + (Man) ₃ (GlcNAc) ₂	•	0	0	0.72	0	0.61	0	0	0
1824.909	(Hex) ₂ (HexNAc) ₁ + (Man) ₃ (GlcNAc) ₂	·>	0	0	0	0	0	0.03m	0	0
1835.925	(HexNAc) ₂ (Deoxyhexose) ₁ + (Man) ₃ (GlcNAc) ₂	⇒	0	0	3.36	0	0	0.79	1	0
1865.936	(Hex) ₁ (HexNAc) ₂ + (Man) ₃ (GlcNAc) ₂	•- *	0	0	1.39	0	0	0	0	0
1984.983	(Hex) ₂ (HexNAc) ₁ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂		0	0	0	0	0	1.06m	0	0
1987.982	(Hex) ₄ + (Man) ₃ (GlcNAc) ₂	-	15	7.35	0.69	9	8.41	3.16	0	0
1999.006	(Hex) ₂ (HexNAc) ₁ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.75m	1.13m	0	0	0	0	0
2029.01	(Hex) ₃ (HexNAc) ₁ + (Man) ₃ (GlcNAc) ₂	<u> </u>	0	0	0.04m	0	0	0	0	0
2040.02	(Hex) ₁ (HexNAc) ₂ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	•	2	0	3.86	0	0.53	7.11	0	0
2067.037	(HexNAc) ₃ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂	>	8	0	3.33	0	0	12.67	0	0
2070.036	(Hex) ₂ (HexNAc) ₂ + (Man) ₃ (GlcNAc) ₂	;;;;··· ··;;;···	0	0	1.33m	1	0	0	0	0
2081.051	(HexNAc) ₃ (Deoxyhexose) ₁ + (Man) ₃ (GlcNAc) ₂	> -4	2	6.58	38.82	1	5.39	12.65	1	0
2111.067	(Hex) ₁ (HexNAc) ₃ + (Man) ₃ (GlcNAc) ₂	•	0	0	2.92	0	0.97	0	0	0
2192.083	(Hex) ₅ + (Man) ₃ (GlcNAc) ₂	-	6	4.56	0.32	4	4.38	2.4	0	0
2203.09	(Hex) ₃ (HexNAc) ₁ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.01	0.39m	0	0.01m	0.25m	0	0
2230.107	(Hex) ₂ (HexNAc) ₂ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂		0	0	0.34m	0	0	0	0	0
2233.11	(Hex) ₄ (HexNAc) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.01	0.04	0	0.01	0.04	0	0
	-	l:		-	_	_	+	t:		

2244.119	Hex) ₂ (HexNAc) ₂ (Deoxyhexo se) ₁ + (Man) ₃ (GlcNAc) ₂	□	7	2.15m	2.87m	2	3.09	4.08m	0	0
2271.135	(Hex) ₁ (HexNAc) ₃ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂	• >	0	0	1.33	0	0	0	0	0
2285.151	(Hex) ₁ (HexNAc) ₃ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	•	18	6.65	14.09	9	5.01	2.67	0	0
2315.162	(Hex) ₂ (HexNAc) ₃ + (Man) ₃ (GlcNAc) ₂	• <u>></u> • <u>></u>	0	0	0.75m	0	0.55	0	0	0
2326.178	(HexNAc) ₄ (Deoxyhexose) ₁ + (Man) ₃ (GlcNAc) ₂	> 1	0	0	0.69	0	0	0	0	0
2396.183	(Hex)6 + (Man)3(GlcNAc)2	:	2	5.32	0.31	2	4.75	3.07	0	0
2448.227	(Hex) ₃ (HexNAc) ₂ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0	0.51	0	0.01	1.74	0	0
2448.222	(Hex)3 (HexNAc)2 (Deoxyhexose)1 + (Man)3(GlcNAc)2		0	0	0	1	0	0	0	0
2475.24	(Hex) ₂ (HexNAc) ₃ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.96m	0.11	0	0	1.19	0	0
2478.24	(Hex) ₄ (HexNAc) ₂ + (Man) ₃ (GlcNAc) ₂	***	0	0.09	0.26	0	0	0	0	0
2489.252	(Hex) ₂ (HexNAc) ₃ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	* <u> </u>	13	14.29	2.82m	6	14.76	1.34m	0	0
2652.322	(Hex) ₄ (HexNAc) ₂ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	*****-I	0	0.01	1.59	0	0.01	1.41	0	0
2693.352	(Hex) ₃ (HexNAc) ₃ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0.9	0.61m	0	1.77	0.64	0	0
2883.436	(Hex) ₄ (HexNAc) ₃ (Pent) ₁ + (Man) ₃ (GlcNAc) ₂	·	0	0	0	0	0	0.69	0	0
2897.451	(Hex) ₄ (HexNAc) ₃ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	0	0	0	0	0.85	0	0
2897.451	(Hex) ₄ (HexNAc) ₃ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂		0	1.49	2.81	0	0.6	0	0	0
2938.478	(Hex) ₃ (HexNAc) ₄ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	- <u>}-1</u>	0	0	0	0	0.34	0	0	0
3142.578	(Hex) ₄ (HexNAc) ₄ (Deoxyhex ose) ₁ + (Man) ₃ (GlcNAc) ₂	>	0	0	0	0	0.08	0	0	0
3602.783	(Hex) ₃ (HexNAc) ₃ (NeuAc) ₃ + (Man) ₃ (GlcNAc) ₂	∷ >	0	0	0	0	0.16	0	0	0
3604.799	(Hex) ₄ (HexNAc) ₅ (NeuGc) ₁ + (Man) ₃ (GlcNAc) ₂	-	0	0	0	0	0.78	0	0	0

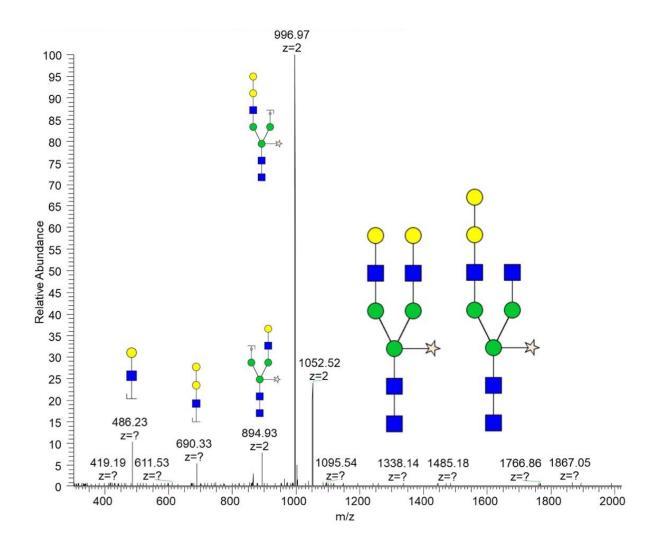
SFig.2 Supplementary data 2. Mass spectrometry spectra for the salivary glands of female fed for two days (F_SG_2dAF).



SFig.3 Supplementary data 3. Mass spectrometry spectra for the salivary glands of female fed for five days (F_SG_5dAF).



SFig.4 Supplementary data 4. MS/MS spectra of a Xylose-containing glycoform found in female salivary gland after 5 day feeding (F_SG_5dAF).



SFig.5 Supplementary data 5. MS/MS spectra of a mono- and di- fucose (m/z 1345) found in female carcass after 5 day feeding. Note that the decay pattern supports the 1,3 fucose paucimannose.

