

Tab. 8.1: Fütterung von *Anopheles stephensi* mit *N. bethamiana*-Rohextrakten von GFP, GFP:PcFK1 und GFP:PcFK2 (vgl. Abb. 3.51).

Effect of peptides expressed in Apoplast/ER (17620) on Oocysts:						
Peptide extract tested	No of mosquitoes dissected	Mean number of oocyst	Minimum number of oocyst	Maximum number of oocyst obtained	p- value from Mann Whitney test	Significant difference
GFPx15789 (control)	12	683,58±227,9	180	1003		
<i>N. bethamiana</i> WT	12	543,42±156.7	226	789	0.069	Not significant
GFP:PcFK1x17620	10	629,80±266.7	350	1094	0.322	Not significant
GFP:PcFK2x17620	13	552,69±263.2	165	1017	0.174	Not significant
Effect of peptides expressed in Apoplast/ER (17620) on sporozoites:						
Peptide extract tested	No of mosquitoes dissected	No of salivary gland loops obtained	No of sporozoites per salivary gland loop			
GFPx15789 (control)	8	29	336			
<i>N. bethamiana</i> WT	8	35	400			
GFP:PcFK1x17620	8	37	466			
GFP:PcFK2x17620	8	29	517			
Effect of peptides expressed in Cytosol (15789) on Oocysts:						
Peptide extract tested	No of mosquitoes dissected	Mean number of Oocyst	Minimum number of oocyst	Maximum number of Oocyst obtained	p- value from Mann Whitney test	Significant difference
GFP x15789 (control)	10	820,80±262	295	1290		
GFP:PcFK1x15789	7	777,57±252.5	355	1066	0.770	Not significant
GFP:PcFK2x15789	10	807,50±98.7	581	922	0.910	Not significant
Effect of peptides expressed in Cytosol (15789) on sporozoites:						
Peptide extract tested	No of mosquitoes dissected	No of salivary gland loops obtained	No of sporozoites per salivary gland loop			
GFP x15789 (control)	6	25	3590			
GFP:PcFK1x15789	6	19	4987			
GFP:PcFK2x15789	6	29	3558			

Tab. 8.2: Fütterung von *Anopheles stephensi* mit den mittels IMAC gereinigten Proteinen GFP, GFP:MCoTI-II und GFP:MCoTI-II-SM1 (vgl. Abb. 3.52).

Oocyst Determination for SM1x15879 (cytosol targeting)					
Peptide extract tested	No of mosquitoes dissected	Mean number of Oocyst	Minimum number of Oocyst	Maximum number of Oocyst	Significant difference
GFPx15879	11	617.73±265.2	187	1064	Not significant
GFP:MCoTI-IIx15879	10	570.90±228.8	315	1100	
GFP:MCoTI-II-SM1x15879	17	594.53±170.7	295	890	
Oocyst Determination for SM1-17620 (ER/apoplast targeting)					
Peptide extract tested	No of mosquitoes dissected	Mean number of Oocyst	Minimum number of Oocyst	Maximum number of Oocyst	Significant difference
GFPx15879	11	617.73±265.2	187	1064	Not significant
GFP:MCoTI-IIx17620	10	495.40±299.1	137	1086	
GFP:MCoTI-II-SM1x 17620	12	578.33±180.5	331	910	
Sporozoites Determination for SM1-15879 (cytosol targeting)					
Peptide extract tested	No of mosquitoes dissected	No of salivary gland loops	No of sporozoites per loop		
GFPx15879	7	21	1298		
GFP:MCoTI-IIx15879	7	23	1054		
GFP:MCoTI-II-SM1x15879	7	27	1065		
Sporozoites Determination for SM1-17620 (ER/apoplast targeting)					
Peptide extract tested	No of mosquitoes dissected	No of salivary gland loops	No of sporozoites per loop		
GFPx15879	7	21	1298		
GFP:MCoTI-IIx17620	7	33	1667		
GFP:MCoTI-II-SM1x17620	7	27	1620		

Tab. 8.3: Fütterung von *Anopheles stephensi* mit den mittels IMAC gereinigten Proteinen MCoTI-II, MCoTI-II-SM1 und AGRP-SM1 (vgl. Abb.3.53 A).

<u>mosquito</u>	<u>TRX:MCoTI-II</u>	<u>TRX:MCoTI-II-SM1</u>	<u>TRX:AGRP-SM1</u>
1	235	442	278
2	275	321	237
3	304	422	237
4	352	83	427
5	338	187	275
6	300	446	451
7	402	295	36
8	483	310	239
9	229	533	476
10	460	220	182
11	464	175	173
12	577	323	362
13	496	297	369
14	276	117	281
15	609	134	149
16	406	225	102
17	403	290	281
18	215	436	467
19	370	438	262
20		349	541
21		467	454
22			397
23			225
24			573
<u>Mean</u>	378,6315789	310	311,4166667
<u>SD</u>	115,0218388	127,6988645	140,0806962

Tab 8.4: Fütterung von *Anopheles stephensi* mit dem mittels IMAC gereinigten Protein TRX:[SM1]₈ (vgl. Abb.3.53 B).

	No of mosquitoes dissected	infected mosquitoes [%]	Oocyst no. range	Mean ± SD no. of oocysts
Control	15	100%	18-510	277.3± 168.67
TRX:[SM1] ₈	10	100%	117-531	333.1± 123.92

Tab 8.5: Fütterung von *Anopheles stephensi* mit den mittels IMAC gereinigten Proteinen Pfs25 und Pfs28 (vgl. Abb. 3.54).

mosquito midgut	oocyst number PBS	oocysts number Pfs25	oocysts number Pfs28
1	105	335	277
2	312	258	301
3	278	192	154
4	386	180	252
5	237	246	48
6	193	132	469
7	164	284	470
8	333	192	163
9	353	528	340
10	72	435	177
11	172	356	120
12	330	228	163
13	519	384	133
14	476	262	96
15	407	565	268
16	529	377	54
17	310	128	299
18	381		
19	294		
20	73		
21	381		
22	388		
23			
Mean	315,2272727	298,9411765	222,5882353
SD	132,3944078	128,6616059	127,709171