



Eesti Maaülikool
Estonian University of Life Sciences

www.emu.ee



ESS
EESTI STATISTIKASELTS

Korrelatsioonimaatriksi illustreerimisest - näiteid eluteadustest

Tanel Kaart
Eesti Statistika Seltsi 24. konverents
"Uued suundumused statistikas"
27.-28. septembril 2012 Tartus



Jubelikonverents
"Eesti Statistika Seltsi 20"

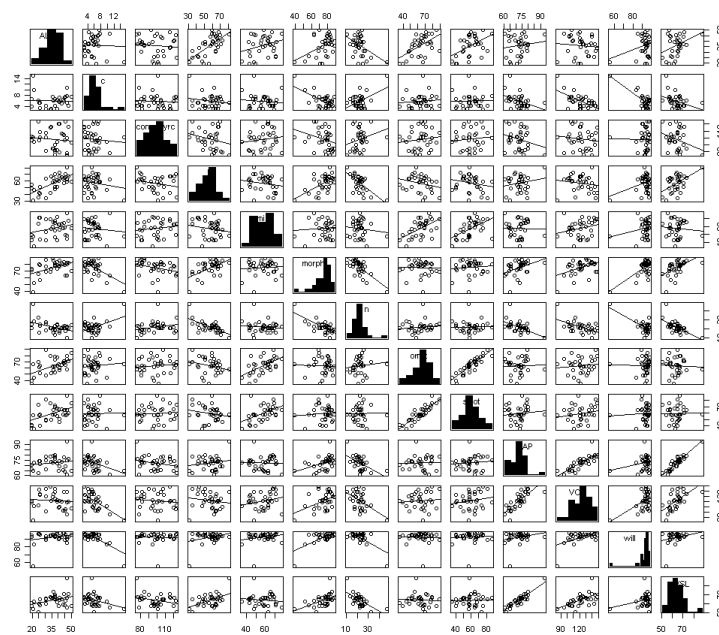
Korrelatsioonimaatriksi

	smot	omot	ALLlin	c	n	l	VSL	VAP	VCL	morph	mi	conc_byrc	will
smot	1.00000	0.88323	0.48501	0.01034	0.00624	-0.19469	0.02434	0.10021	-0.18924	0.09829	0.50530	0.09539	0.06133
omot	<.0001	1.00000	0.00036	0.95377	0.97200	0.26999	0.89133	0.87288	0.28388	0.61566	0.00233	0.59155	0.73044
ALLlin	0.88323	0.00036	1.00000	0.54040	0.10784	0.12196	-0.28278	-0.05781	0.09749	-0.04167	0.86348	0.12488	-0.02002
c	<.0001	0.95377	0.00036	1.00000	0.49200	0.14902	0.74402	0.88055	0.58333	0.81500	0.00005	0.48161	0.91055
n	0.48501	0.54040	0.10784	0.12196	1.00000	-0.02560	-0.44666	0.66381	0.36412	0.13579	-0.08575	0.27380	-0.09590
l	0.00624	0.00920	0.88577	0.00881	<.0001	0.03433	0.44388	0.62977	0.00777	0.11171	0.58985	0.13499	0.13499
VSL	0.01034	0.10784	-0.02560	1.00000	0.47888	-0.18061	-0.38611	-0.41035	-0.62177	-0.60515	-0.10139	-0.07834	-0.73810
VAP	0.02434	0.74402	0.09749	0.58333	0.14902	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
VCL	0.10021	0.88055	0.81500	0.00005	0.48161	0.91055	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
morph	0.09829	0.61566	0.86348	0.12488	-0.02002	0.50530	0.09539	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000
mi	0.50530	0.09539	0.12488	0.48161	0.91055	0.00000	0.00000	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
conc_byrc	0.09539	0.48161	-0.02002	0.50530	0.09539	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000	0.00000	0.00000
will	0.06133	-0.02002	0.09590	0.13499	0.13499	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000	0.00000

	smot	omot	ALLlin	c	n	l	VSL	VAP	VCL	morph	mi	conc_byrc	will
VCL	0.28388	0.58333	0.62977	<.0001	0.00111	0.40966	0.00002	<.0001	0.01008	0.17444	0.50688	0.00017	0.00017
morph	0.09829	-0.04167	0.44044	-0.60515	-0.71219	0.50729	0.50978	0.38326	0.43152	1.00000	0.07482	-0.28644	0.65832
mi	0.61566	0.81500	0.00777	0.00001	0.00001	0.00004	0.00021	0.02553	0.01008	0.00000	1.00000	0.10005	<.0001
mi	0.50530	0.50530	0.63408	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
mi	0.00233	0.00005	0.48161	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000
conc_byrc	0.09539	0.12488	-0.02002	0.50530	0.09539	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000	0.00000
conc_byrc	0.59155	0.48161	0.09590	0.13499	0.13499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	1.00000
will	0.06133	-0.02002	0.09590	0.13499	0.13499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
will	0.73044	0.91055	0.13499	0.13499	0.13499	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

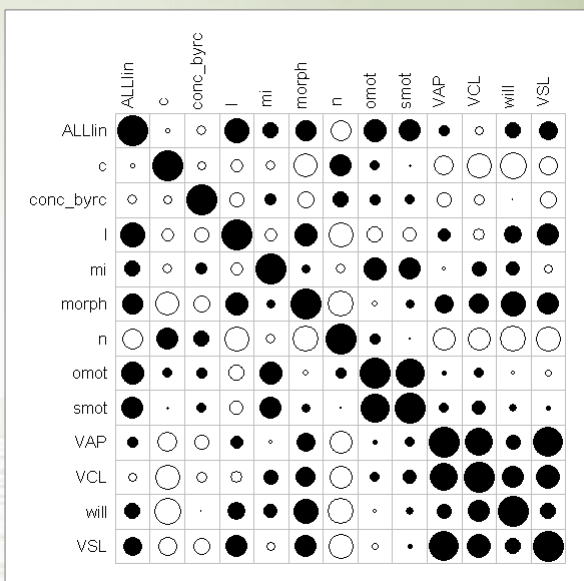
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	smot	1												
2	omot	0.883	1											
3	ALLlin	0.485	0.540	1										
4	c	0.010	0.108	-0.026	1									
5	n	0.006	0.122	-0.447	0.479	1								
6	l	-0.195	-0.253	0.664	-0.181	-0.655	1							
7	VSL	0.024	-0.058	0.364	-0.356	-0.648	0.514	1						
8	VAP	0.100	0.027	0.136	-0.410	-0.537	0.184	0.921	1					
9	VCL	0.189	0.097	-0.086	-0.622	-0.535	-0.146	0.390	0.788	1				
10	morph	0.089	-0.042	0.449	-0.605	-0.712	0.570	0.510	0.383	0.432	1			
11	mi	0.505	0.563	0.274	-0.101	-0.111	-0.180	-0.092	-0.020	0.238	0.075	1		
12	conc_byrc	0.095	0.125	-0.096	-0.078	0.248	-0.236	-0.297	-0.242	-0.118	0.266	0.140	1	
13	will	0.061	-0.020	0.262	-0.738	-0.674	0.318	0.252	0.227	0.517	0.658	0.206	-0.003	1

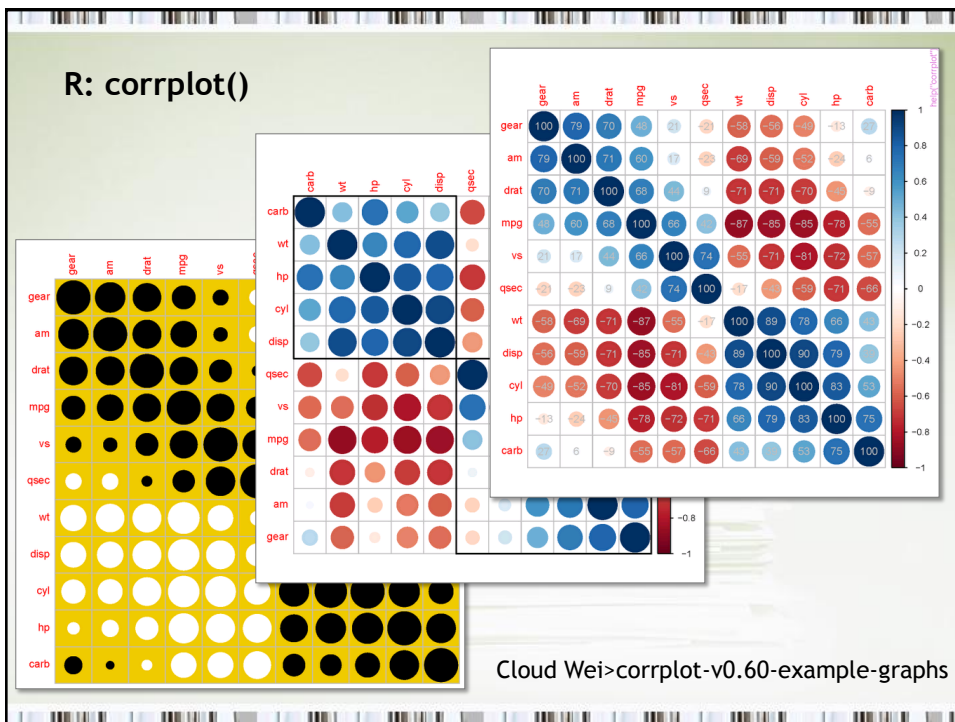
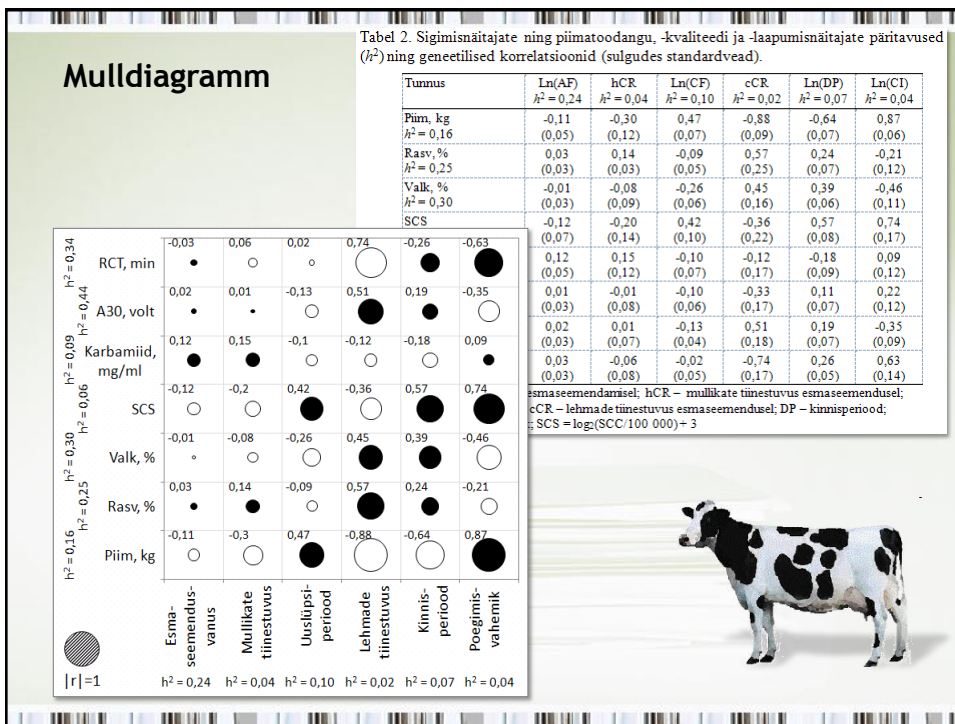
Hajvusdiagrammide maatriks

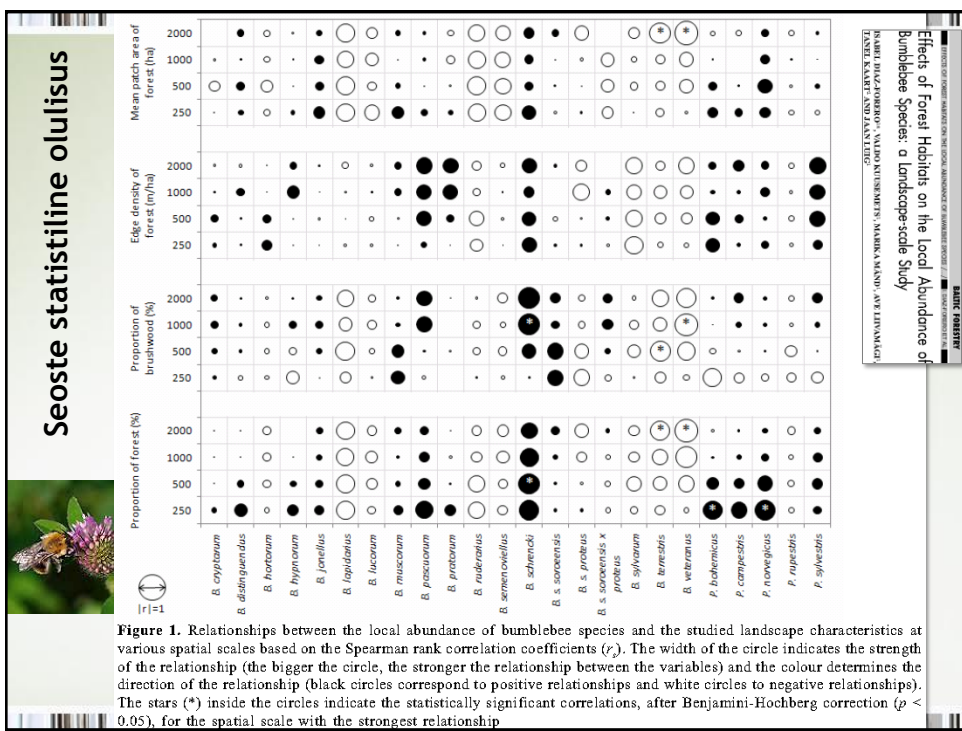
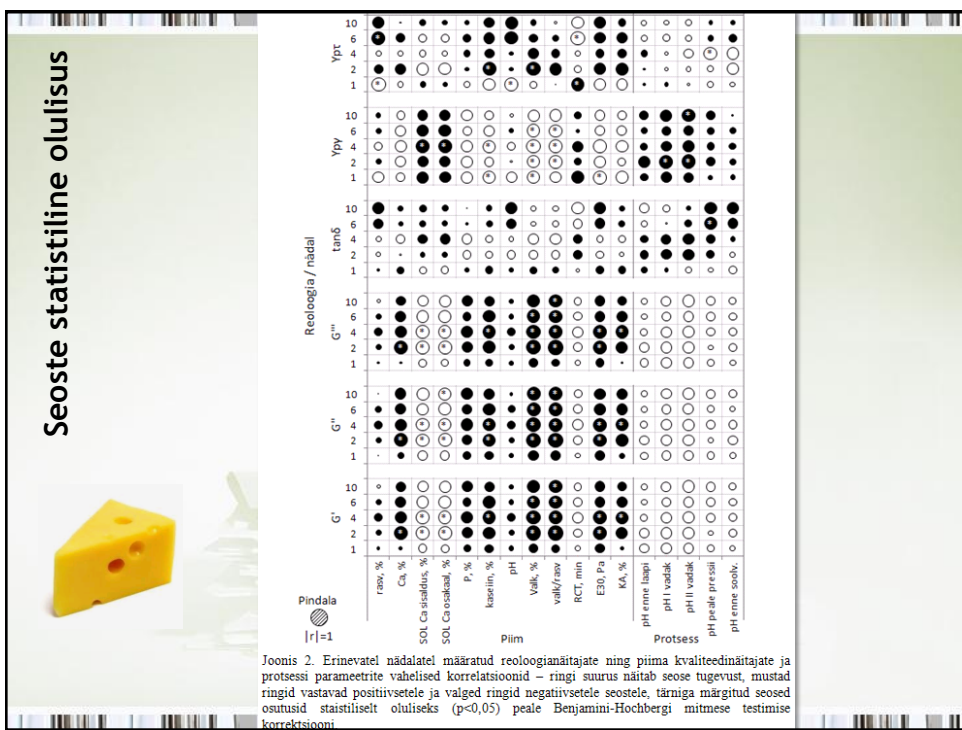


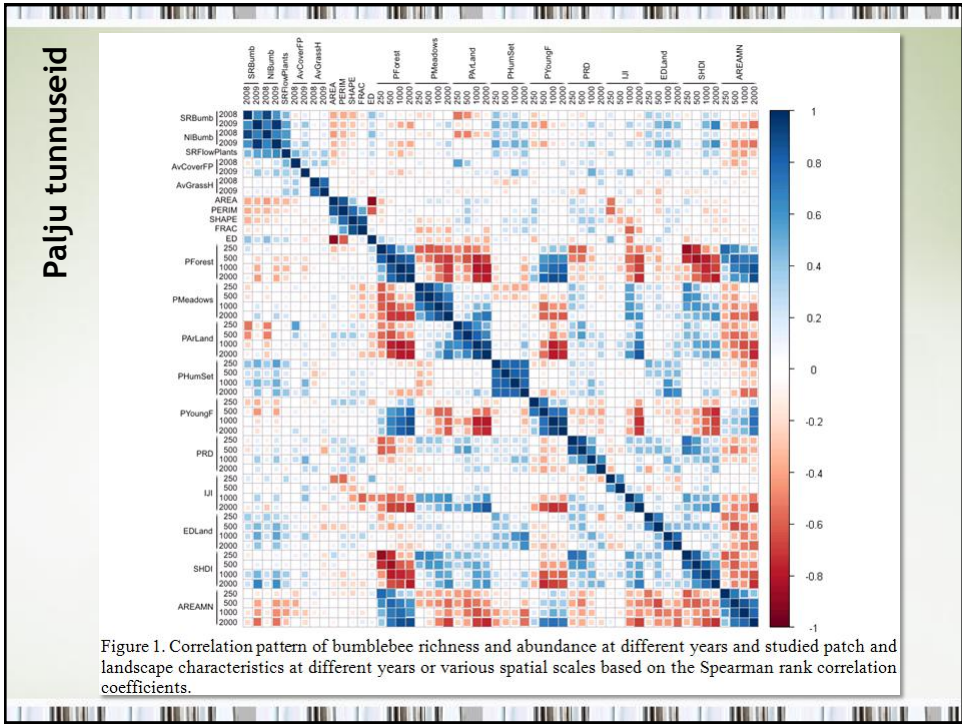
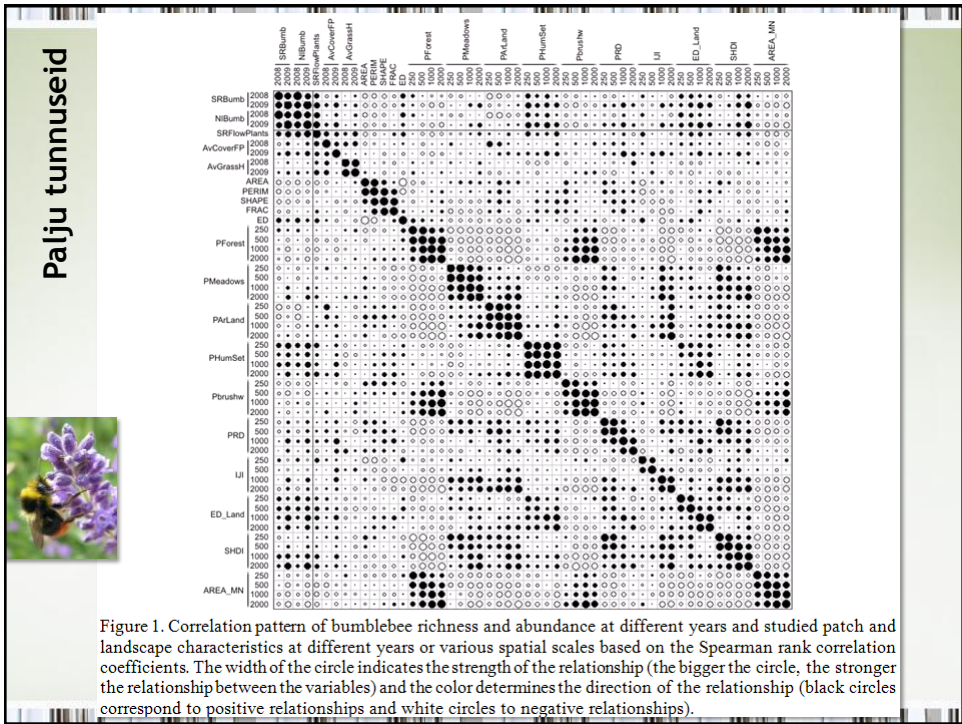
R: corrplot()

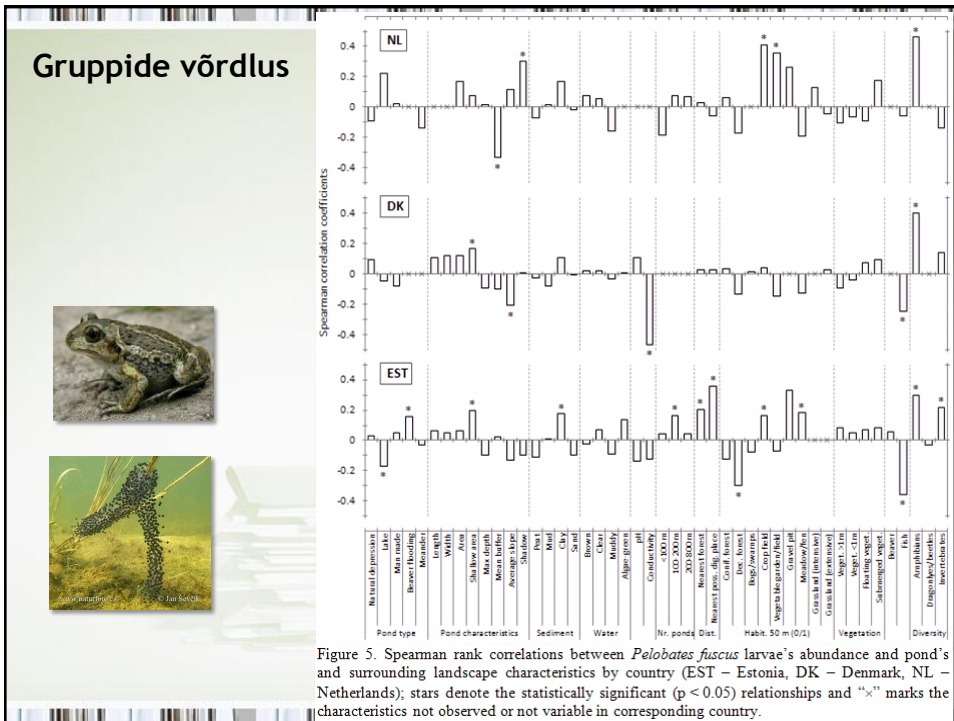
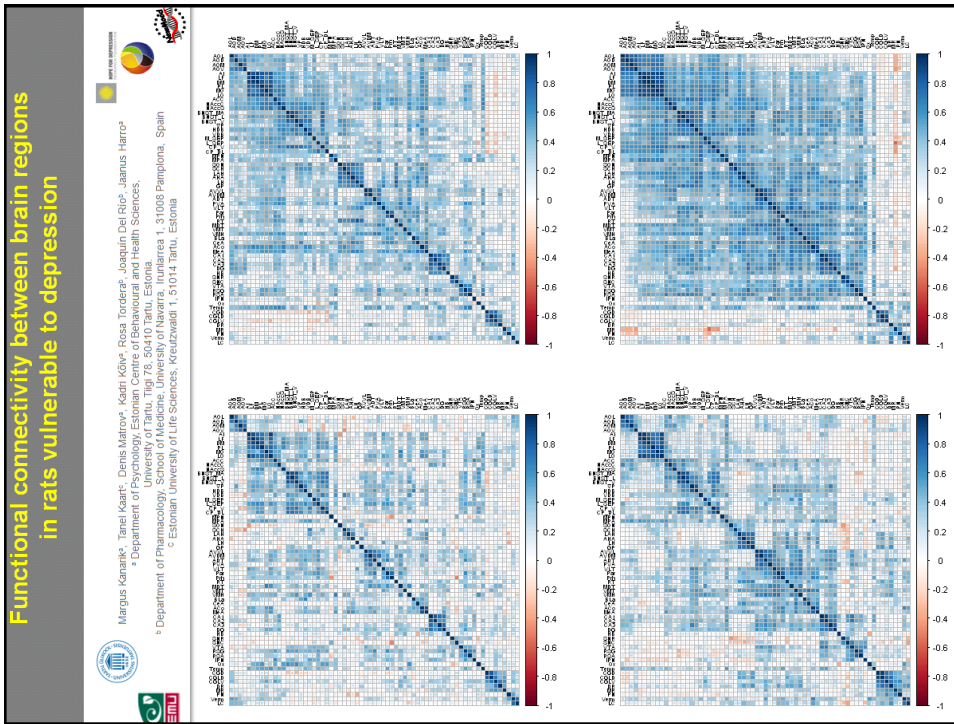
Ringide suurus (pindala) näitab seose tugevust ja värvus seose suunda

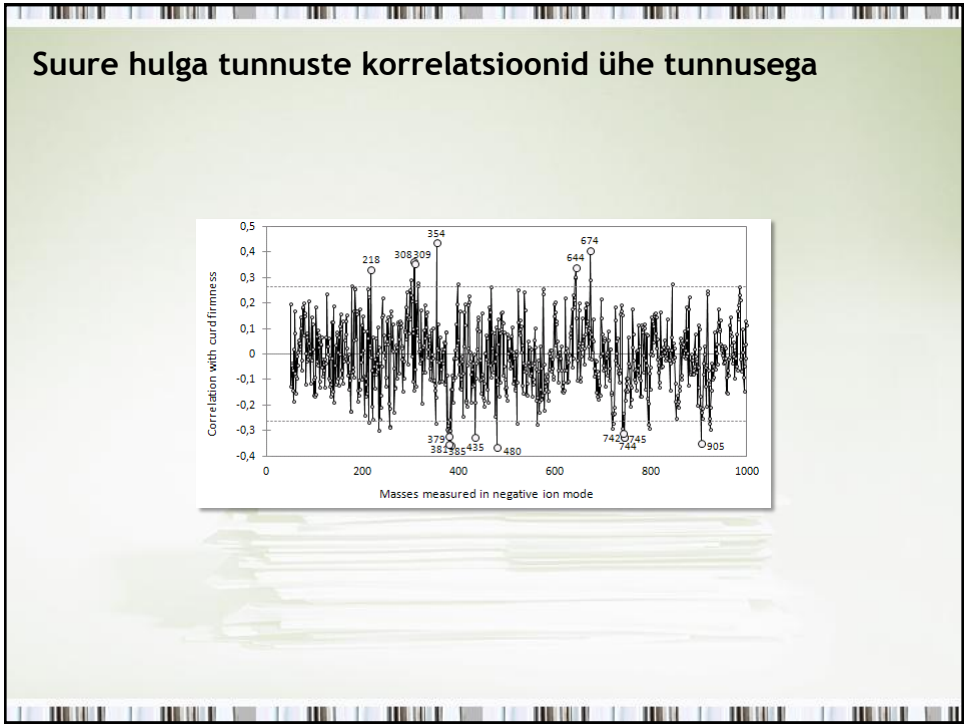
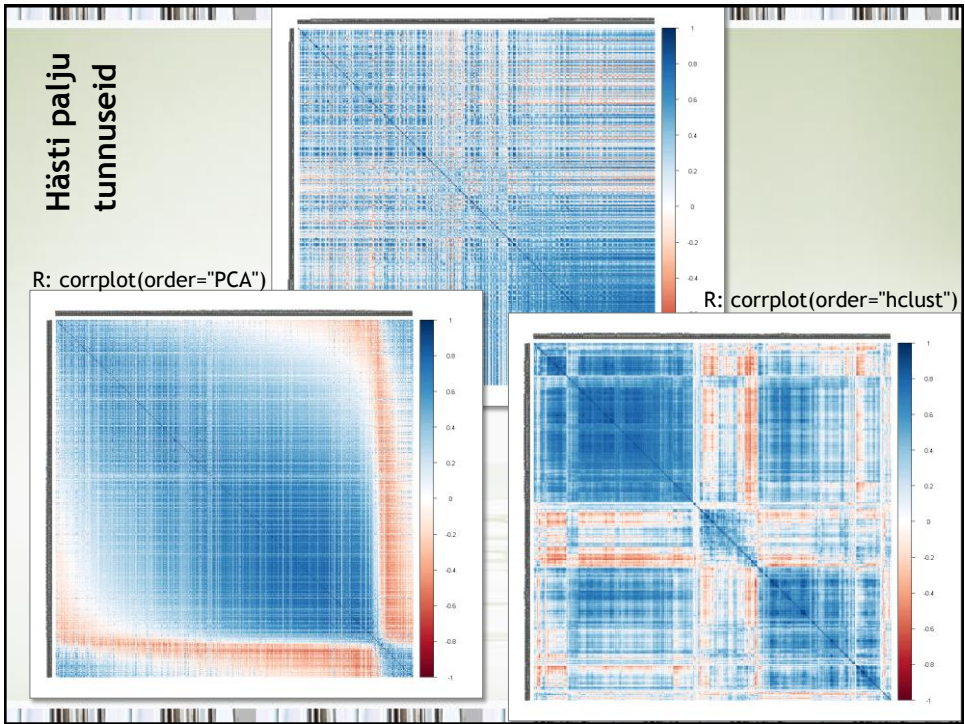


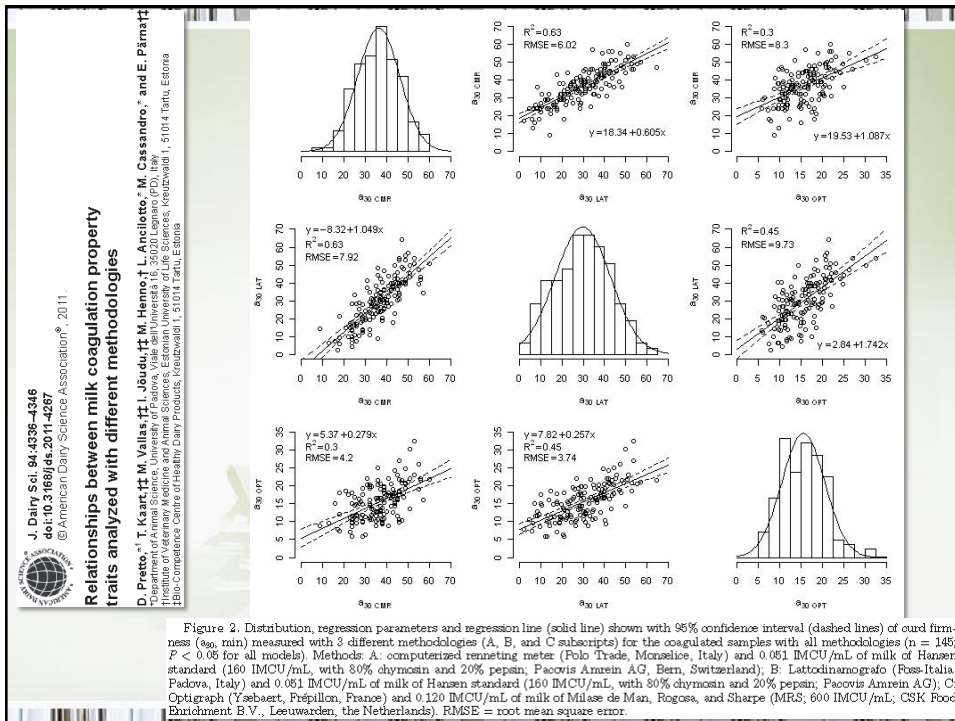
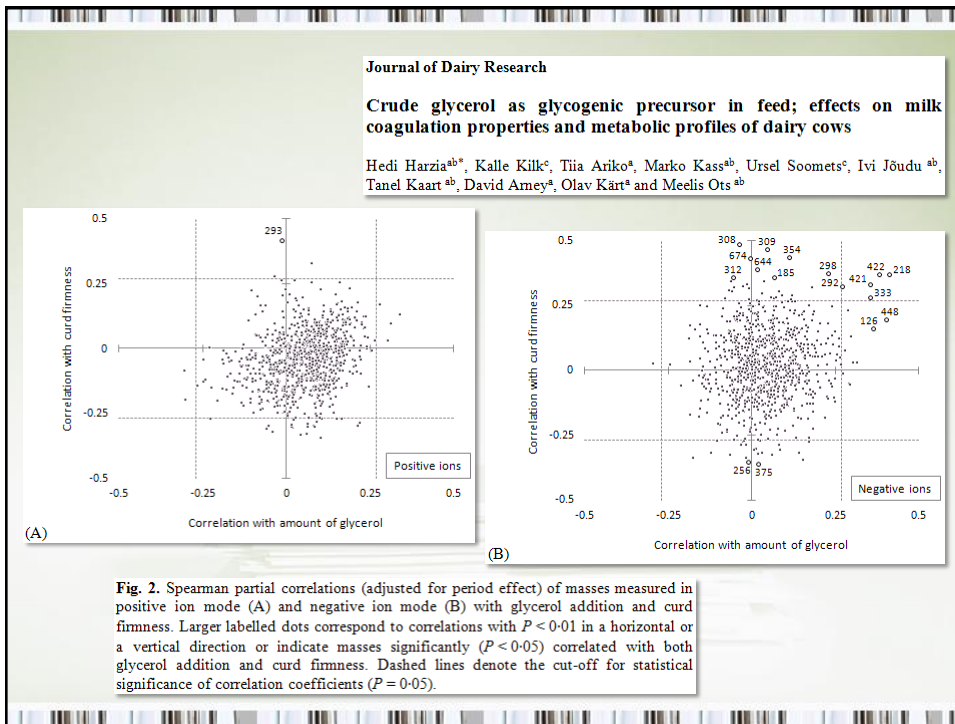


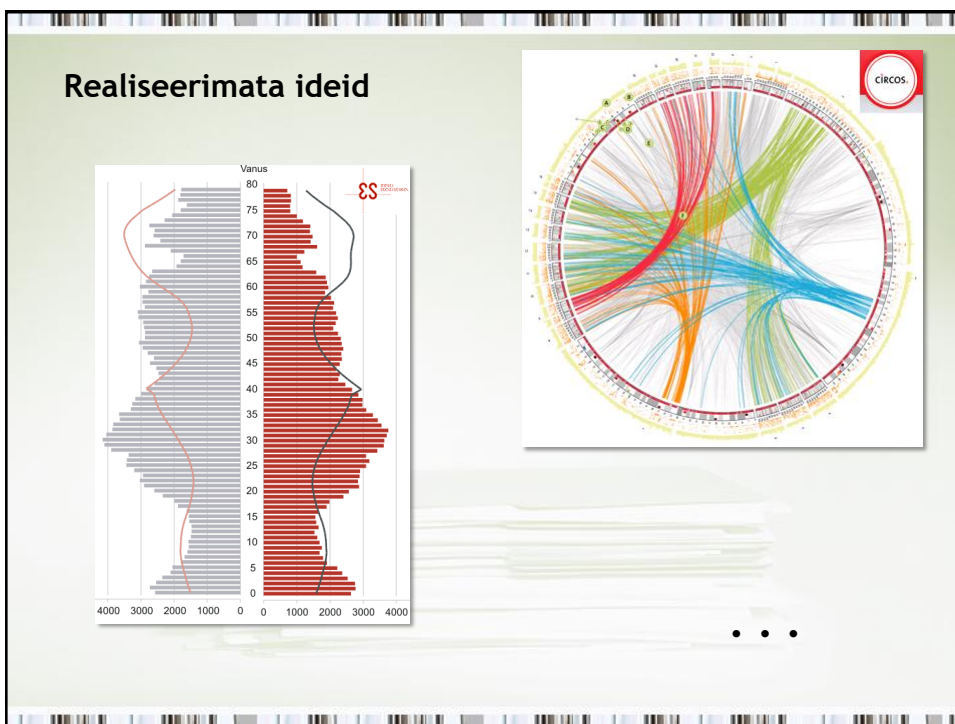












**Tänu kõigile
andmekogujatele, katsete läbiviijatele,
mõõtmiste teostajatele, andmesisestajatele jt
inimestele,
tänu kelle tööle saab statistik istuda soojas toas
muretsemata selle üle, et midagi teha poleks või et
äkki igav hakkaks.**